harman/kardon

DPR1001

DIGITAL PATH AUDIO/VIDEO RECEIVER

SERVICE MANUAL



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harman/kardon, Inc.

250 Crossways Park Dr.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge build-up or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical change sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed2
 - CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together or your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES devices.

PRODUCT SAFETY NOTICE DPR1001

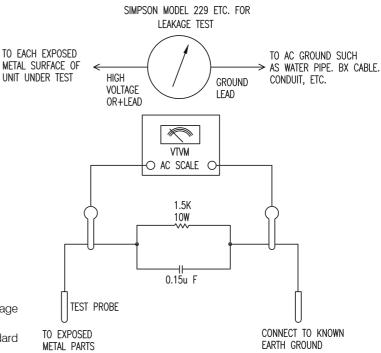
Each precaution in this manual should be followed during servicing.

Components identified with the IEC symbol in the parts list are special significance to safety. When replacing a component identified with in the parts list are special significance to safety. When replacing a component identified with in the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

LEAKAGE TESTING

Before returning the unit to the user, perform the following safety checks:

- Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.
- 2. Be sure that any protective devices such as nonmetallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc. Which were removed for the servicing are properly re-installed.
- 3. Be sure that no shock hazard exists; check for leakage current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows: Plug the power cord directly Into a 120 volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a



1500 ohms, 10watt Resistor paralleled by a 0.15uF capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See diagram) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.

BASIC SPECIFICATIONS

Audio Section

Continuous Average Power (FTC)

All Channels: 50 Watts per channel @ 8 ohms, 1kHz, 0.19% THD

Power Output per EIA 490A: 65 Watts x 7 @ 8 ohms

Input Sensitivity/Impedance

Linear (High-Level) 200mV/47k ohms

Signal-to-Noise Ratio (IHF-A) 90dB

Surround System Adjacent Channel Separation
Pro Logic I, II 40dB
Dolby Digital 55dB
DTS 55dB

Frequency Response

@ 1W (+0dB, -3dB) 20Hz -22kHz

Transient Intermodulation

Distortion (TIM) None
Negative Feedback None

FM Tuner Section

Frequency Range 87.5 MHz – 108MHz
Usable Sensitivity IHF 1.3 µV/13.2 dBf
Signal-to-Noise Ratio Mono/Stereo 70 dB/68 dB
Distortion Mono/Stereo 0.2%/0.3%

Stereo Separation 40dB @ 1kHz Selectivity ±400kHz, 70dB

Image Rejection 80dB IF Rejection 90dB

AM Tuner Section

Frequency Range 520 kHz - 1710 kHz

Signal-to-Noise Ratio 45 dB Usable Sensitivity Loop 500 µV

Distortion 1kHz, 50% Mod 0.8%

Selectivity ± 10 kHz, 30dB

Video Section

Television Format NTSC

Input Level/Impedance 1Vp-p/75 ohms
Output Level/Impedance 1Vp-p/75 ohms

Video Frequency Response (Composite and S) 10Hz – 8MHz (–3dB)

Video Frequency Response

(Component) 10Hz - 30MHz (-3dB)

General

Power Requirement AC 120V/60Hz

Power Consumption 7.6W standby, 550W @ rated output,

all channels driven

Dimensions Width 17.3 inches (440mm)

Height 4.75 inches (120mm) Depth 18.75 inches (476mm)

Weight 17 lb (7.7kg)

Depth measurement includes knobs, buttons and terminal connections.

Height measurement includes feet and chassis.

All features and specifications are subject to change without notice.

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DETAILED SPECIFICATIONS

A) ANALOG INPUT, BASELINE AUDIO PARAMETERS (STEREO SURROUND MODE)

Measuring methods are based on IHF and IEC standard 268-3
Measurement conditions, unless otherwise noted:
Tone Off or Tone(Bass, Treble), Balance, EQ control: Center Position, Other SW's: OFF, Volume:Max Nominal input level: 0dBFS sine wave PCM bitstream (Digital), 225mV sine wave (Analog)

Power figures should be kept minimum 10min., between 15 and 35 $^{\circ}\text{C}$

Terminator: 1kohm for general purpose inputs

All Voltage Measurements are made with RMS detector, unless otherwise specified. Filter: IHF-A filter UUT= Unit Under Test.

Power supply: 120 V, 60 Hz

MARKETING UNIT RATINGS.	CONDITION	UNIT	VALUE
Rated Stereo Power Output	Both FL and FR Speaker amplifiers driven and loaded with Rated Resistive Load.	Watts/Ch	50
Rated 8 CH DIRECT Power Output	All Seven (FL,FR,C,SL,SR,SBL,SBR) Speaker amplifiers driven and loaded with Rated Resistive Load Impedance.	Watts/Ch	50
Rated Resistive Load	Resistive loads to be connected to Speaker Outputs using a 12 AWG Stranded Speaker Wire pair for each load resistor. Wire length should be approximately 10 feet.	Ohm	8 ohm, +/-1 %, Non-Inductive, 455 W

SPEAKER	AVAILABLE SPEAKER MODES
FRONT "L" AND "R" SPEAKERS	LARGE ALWAYS
SUBWOOFER OUTPUT	YES/NO

*SUB-WOOFER SPKR:YES *SPKR LEVEL:ALL 0dB *TONE OUT

SPEAKER POWER AMPLIFIER SECTION

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMONAL											
1	Input Sensitivity	Should be met by all Analog Stereo and 8 CH DIRECT	1kHz	Stereo and 8 CH DIRECT rated Power into Rated Resistive Load should be obtained by applying an input signal level	mV	225±40	225±20	8CH										
		Inputs		with the specified range.				STEREO										
2				VOL at min. 10Hz-22KHz BW, peak detector, all inputs terminated w/ 1 Kohm	mVpk	<3mV	<2mV	8 CH										
				VOL at min. 10Hz-22KHz BW, peak detector, all inputs terminated w/ 1 Kohm	mVpk	<2.5mV	<1.5mV	STEREO										
				VOL at max. 10Hz-22KHz BW, peak detector, all inputs terminated w/ 1 Kohm	mVpk	<10mVpk	<8mVpk	8 CH										
				VOL at max. 10Hz-22KHz BW, peak detector, all inputs terminated w/ 1 Kohm	mVpk	<4mVpk	<2.5mVpk	STEREO										
	RESIDUAL NOISE	DUAL NOISE Should be met by all Analog Stereo and 8CH DIRECT Inputs	all Analog Stereo and 8CH DIRECT	all Analog Stereo and 8CH DIRECT	all Analog Stereo and 8CH DIRECT		VOL at max. 10Hz-22KHz BW, RMS , non-weighted, all inputs terminated w/ 1 Kohm	mVrms	<4mVrms	<3mVrms	8 CH							
														VOL at max. 10Hz-22KHz BW, RMS , non-weighted, all inputs terminated w/ 1 Kohm	mVrms	<1mVrms	<0.75mVrms	STEREO
										VOL at max. 10Hz-22KHz BW, RMS , 'A Weighted', all inputs terminated w/ 1 Kohm	mVrms	<3mVrms	<2.5mVrms	8 CH				
											VOL at max. 10Hz-22KHz BW, RMS , 'A Weighted', all inputs terminated w/ 1 Kohm	mVrms	<0.7mVrms	<0.5mVrms	STEREO			
				VOL at max. 10Hz-22KHz BW, RMS , 'A Weighted', all inputs left un-terminated	mVrms	<3mVrms	<2.5mVrms	8 CH										
					VOL at max. 10Hz-22KHz BW, RMS , 'A Weighted', all inputs left un-terminated	mVrms	<0.7mVrms	<0.5mVrms	STEREO									
	TOTAL HARMONIC		20Hz-20 KHz.					20Hz										
	DISTORTION (Rated Stereo	Should be met by all Stereo Inputs	Power out =Rated Power - 1 dB	Vol at Max, 10 Hz-22KHz Meas BW."A"WEIGHTED	%	<0.6	<0.45	1k										
	Power Output -1dB)							20k										

DETAILED SPECIFICATIONS (CONT'D)

	TOTAL							20Hz
	HARMONIC DISTORTION (Rated 8 CH	8 CH DIRECT	20Hz-20 KHz, Power out =Rated Power - 1 dB	Vol at Max, 10 Hz-22KHz Meas BW."A"WEIGHTED	%	<0.6	<0.45	1k
3	DIRECT Power Output - 1 dB)							20k
	TOTAL							20Hz
	HARMONIC DISTORTION (1 W Power Output)		20Hz-10 KHz, Power out =1 W	Vol at Max, 10 Hz-22KHz Meas BW."A"WEIGHTED	%	<0.25	<0.15	1k
								20k
	TOTAL							20Hz
	HARMONIC DISTORTION (1 W Power Output)	8 CH DIRECT	20Hz-10 KHz, Power out =1 W	Vol at Max, 10 Hz-22KHz Meas BW."A"WEIGHTED	%	<0.25	<0.15	1k
	W. Susi Sutputy							20K
	CONTINUOUS	CD	20 Hz	at 0.6% THD, 10 Hz-80 KHz measurement BW. Volume at Max.	W	>50	>53	
	AVERAGE POWER: A) Stereo, 8 Ohm load,	CD	1kHz	at 0.6% THD, 10 Hz-80 KHz measurement BW. Volume at Max.	W	>50	>53	
4	FL and FR driven.	CD	20 KHz	at 0.6% THD, 10 Hz-80 KHz measurement BW.Volume at Max.	W	>50	>53	
4	CONTINUOUS AVERAGE POWER: B) All 7 Channels Driven, 8 ohms	8 CH DIRECT	20 Hz	at 0.6% THD, 10 Hz-80 KHz measurement BW.Volume at Max.	W	>50	>53	
		8 CH DIRECT	1kHz	at 0.6% THD, 10 Hz-80 KHz measurement BW.Volume at Max.	W	>50	>53	
		8 CH DIRECT	20 KHz	at 0.6% THD, 10 Hz-80 KHz measurement BW.Volume at Max.	W	>50	>53	
5	IMD(SMPTE)	Should be met by CH DIRECT Inputs	Sine wave # 1 f =60Hz. Ampl=4, sine wave # 2 f= 7 KHz. Ampl=1	30 step Sweep of Gen to Drive to Pk-Pk value of sine rated power	%	<0.6	<0.4	
		Should be met by all Analog Stereo Inputs	Sine wave # 1 f =60Hz. Ampl=4, sine wave # 2 f= 7 KHz. Ampl=1	30 step Sweep of Gen to Drive to Pk-Pk value of sine rated power	%	<0.6	<0.4	
		Should be met by CH DIRECT Inputs	1kHz	Referred to Rated Output Power, Vol at max, all inputs terminated w/ 1 Kohm. Should be measured with a 10 Hz-22 KHz BW, RMS noise reading	dB	>70	>75	8 CH
								TAPE CD
		Should be met by		Referred to Rated Output Power, Vol at max, all inputs				VID 1
		all Analog Stereo	1kHz	terminated w/ 1 Kohm. Should be measured with a 10 Hz-22 KHz BW, RMS noise reading	dB	>80	>85	VID 2
								VID 3 VID 4
								DVD
		Should be met by CH DIRECT Inputs	1kHz	Referred to 1W Out.Vol at max, all inputs terminatedw/ 1 Kohm. Should be measured with a 10 Hz-22 KHz BW, RMS noise reading	dB	>55	>60	8 CH

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	ı		L						
								T.	APE
	S/N RATIO,IHF-A								CD
6	FILTER	Should be met by		Referred to 1W Out. Vol at max, all inputs terminated w/				V	ID 1
		8CH DIRECTInputs	1kHz	1 Kohm. Should be measured with a 10 Hz-22 KHz BW, RMS noise reading	dB	>55	>60	V	ID 2
				NIVIS HOISE FEAGING				V	ID 3
								V	ID 4
									DVD
		Should be met by 8CH DIRECTInputs	1kHz	Referred to Rated Output Power, Vol at max, all inputs left un-terminated. Should be measured with a 10Hz-22 KHz BW, RMS noise reading	dB	>70	>75	8	СН
								T.	APE
									CD
		Should be met by		Defermed to Detect Outrout Devices Value recovery				V	ID 1
		all Analog Stereo	1kHz	Referred to Rated Output Power, Vol at max, all inputs left un-terminated. Should be measured with	dB	>80	>85	V	ID 2
		Inputs		a 10Hz-22 KHz BW, RMS noise reading				V	ID 3
								V	ID 4
									DVD
				Vol at Max, Gen amplitude adjusted to obtain R/O-3dB,				st	ereo
	CHANNEL		100Hz	measured w/ AP's Xtalk mode. Driving every channel individually. Undriven channels should be terminated w/1 kOhm.Use 10Hz-22KHz BW	dB	>55	>60	8	3 ch
	SEPARATION:	Should be met by all Analog Stereo		Vol at Max, Gen amplitude adjusted to obtain R/O-3dB, measured w/ AP's Xtalk mode. Driving every channel				st	ereo
7	Zterm = 1KW/1000pF IHF-A FILTER	W/1000pF and 8 CH DIRECT	1kHz	individually. Undriven channels should be terminated w/1 kOhm.Use 10Hz-22KHz BW		>60	>65	8	3 ch
				Vol at Max, Gen amplitude adjusted to obtain R/O-3dB, measured w/ AP's Xtalk mode. Driving every channel				st	ereo
			10kHz	individually. Undriven channels should be terminated	dB	>50	>60	8	3 ch
				w/1 kOhm.Use 10Hz-22KHz BW Volume at Max. Apply Sinewave Signal Gen amplitude					
		All Analog Stereo and 8 CH DIRECT Inputs	1 kHz	to the tested input, to obtain R/O-3dB at the speaker outputs.Record the output level as the reference output. Then, scroll thru the other possible stereo inputs, and	dB	>70	>75		ereo 3 ch
	FUNCTION			measure the output level. Compute t					
8	CROSSTALK, (Measured on all Channels) IHF-A FILTER	All Analog Stereo and 8 CH DIRECT Inputs	10 kHz	Volume at Max. Apply Sinewave Signal Gen amplitude to the tested input, to obtain R/O-3dB at the speaker outputs. Record the FL and FR speaker output level as the reference output. Scroll thru other stereo inputs,	dB	> 55	>75		ereo 3 ch
	IMF-A FILTER			and measure the output level. Compute th Apply an FM Stereo RF input thru a 50->75 ohm					
		AM/FM Tuner Input	1 KHz	dummy antenna (98 MHz carrier, 75 KHz modulation, 1 KHz tone, 72 dBuV level). Then set UUT to FM Stereo, 98 MHz. Set Volume control to 10 dB below Max. Record the FL and FR speaker output level as the refere	dB	> 75	>85		
		8 CH DIRECT Inputs	To find the point in the Frequency Response Curve, where Output Level falls by 3 dB, referred to the 1	Should be met with Volume at Max (50 mV input) Use	Hz	20 Hz- 18K kHz	10 Hz-20 kHz		Vol.max input:50 mV
9	FREQUENCY RESPONSE		To find the point in					STER	1117
			the Frequency Response Curve,					EO 8CH	
		All Analog Stereo Inputs	where Output Level	Should be met with Volume at Max (50 mV input), and also with Volume at 40 dB below Max (5 V input).	Hz	10 Hz-20 kHz	5 Hz-22 kHz	STER	
		,54.5	falls by 3 dB, referred to the 1	ac to ab scient max (s v input).		2		EO	Vol40
			KHz point.					8CH	input:5V
									TAPE
			Tested at Stereo	Tested in Stereo Mode, at Stereo Rated Power -3dB.					CD VID 1
		CD	Mode Rated Power -3dB> THD	Find the Input Sinawave Frequency Point where THD	Hz~kHz	20-20kHz	20-22kHz		VID 2
10	POWER BANDWIDTH -		0.6%	increases to 0.6% . Record the Frequency.					VID 3
``	3dB								VID 4 DVD
		8 CH DIRECT Inputs	Tested at 8 CH DIRECT Mode Rated Power -3dB	Tested in 8 CH DIRECT Mode, at 8CH DIRECT Rated Power -3dB. Find the Input Sinawave Frequency Point where THD increases to 0.6%. Record the Frequency.	Hz~kHz	20-20kHz	20-22kHz		3,0
\Box			> THD 0.6%	and the mercases to 5.0% mecora the frequency.					

DETAILED SPECIFICATIONS (CONT'D)

B) DIGITAL INPUT, BASELINE AUDIO PARAMETERS (STEREO SURROUND MODE)

Measuring methods are based on IHF and IEC standard 268-3

Measurement conditions, unless otherwise noted:

Output resistive load = (8) ohms / All channels loaded.

Tone Off or Tone(Bass, Treble), Balance, EQ control: Center Position, Other SW's: OFF, Volume:Max

All Voltage Measurements are made with RMS detector, unless otherwise specified.

Filter: IHF-A filter

R/O = Rated Output, which is 50 W into 8 ohm resistive load, for PCM Digital inputs.

UUT= Unit Under Test.

All measurements are made in Stereo mode, at FL and FR Speaker Output jacks, unless otherwise noted.

Power supply: 120 V, 60 Hz

MARKETING UNIT RATINGS.	CONDITION	UNIT	VALUE
Rated Stereo Power Output	Both FL and FR Speaker amplifiers driven and loaded with Rated Resistive Load.	Watts/Ch	50
Rated 6 CH DIRECT Power Output	All seven(FL,FR,C,SL,SR ,SBL,SBR) Speaker amplifiers driven and loaded with Rated Resistive Load Impedance.	Watts/Ch	50
Rated Resistive Load	Resistive loads to be connected to Speaker Outputs using a 12 AWG Stranded Speaker Wire pair for each load resistor. Wire length should be approximately 10 feet.	Ohm	8 ohm, +/- 1 %, Non-Inductive, 455 W

SPEAKER	STEREO MODE AVAILABLE SPEAKER SETTINGS
Front "L" and "R" speakers	LARGE/SMALL
SUBWOOFER OUTPUT	YES/NO

SPEAKER	MULTICHANNEL AVAILABLE SPEAKER MODES
Front "L" and "R" speakers	LARGE/SMALL
CENTER SPEAKER	LARGE/SMALL/NONE
Surround "L" and "R" speakers	LARGE/SMALL/NONE
SUBWOOFER OUTPUT	YES/NO

Digital Input data is a 44.1 KHz sampling rate, 16 bit, no Pre-emphasis, PCM bitstream.

FRONT AMP SECTION

	RONT AMP SECTION		1	DEMARK	115117			_
No	DESCRIPTION	INPUT		REMARK	UNIT	LIMIT	NOMINAL	
1	Gain Difference between Analog and Digital Input	Coaxial 1	below Max, the should be the sar	dz PCM bitstream, and Main Volume at 20 dB Output Voltage at FL and FR speaker outputs ne as when, applying a 2 Volt, 1 KHz sinewave in analog Stereo Input. Read the dB difference between	dB	< 2 dB	< 1 dB	
2	Dynamic Range	Coaxial 1	at 20 dB below M units. Use 'A Wei	Iz sinewave PCM bitstream, and Main Volume lax, set meter to read THD+N Ampl, with dBr ghting' filter, 10 Hz-80 KHz BW. Record the at FL and FR speaker outputs to be the 0 dBr Reference val	dB	>85	> 90	
3	RESIDUAL NOISE	Coaxial 1	off), 1 KHz sineway below Max, set me	ator amplitude at -999 dBFS (Generator turned ve PCM bitstream, and Main Volume at 20 dB eter to read Amplitude,10 Hz-22 KHz BW. Take adings on both FL and FR Speaker Outputs.	mVrms	<1	<0.5	
4	TOTAL HARMONIC DISTORTION	Coaxial 1	20 Hz	With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, set meter to read THD+N, with % units. Use 10 Hz-80 KHz BW. Read THD+N Ratio, with dBr units on both FL and FR Speaker Outputs. IHF-A FILTER	%	<0.25	<0.15	

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DETAILED SPECIFICATIONS (CONT'D)

4	TOTAL HARMONIC DISTORTION	Coaxial 1	20 Hz	With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, set meter to read THD+N, with % units. Use 10 Hz-80 KHz BW. Read THD+N Ratio, with dBr units on both FL and FR Speaker Outputs. IHF-A FILTER	%	<0.25	<0.15	
			1 KHz	With a 0 dBFS, 20 Hz sinewave PCM bitstream, and Main Volume at 20 dB below Max, set meter to read THD+N, with % units. Use 10 Hz-80 KHz BW. Read THD+N Ratio, with dBr units on both FL and FR Speaker Outputs.IHF-A FILTER	%	<0.6	<0.4	
			20 KHz	With a 0 dBFS, 20 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, set meter to read THD+N Ratio, with % units. Use 10 Hz-80 KHz BW. Read THD+N Ratio, on both FL and FR Speaker Outputs.	%	<0.25	<0.15	
5	IMD(SMPTE)	Coaxial 1	Sine wave # 1 f =80Hz. Ampl=4, sine wave # 2 f= 2 KHz. Ampl=1	With a 0 dBFS, SMPTE (80 Hz-4X:2 KHz-1X) waveform PCM bitstream, and Main Volume at 20 dB below Max, set meter to read SMPTE/DIN Distortion, with % units. Read SMPTE/DIN Distortion, on both FL and FR Speaker Outputs.	%	0.6	0.4	
6	S/N RATIO,IHF-A FILTER	Coaxial 1	at 20 dB below N speaker output	Iz sinewave PCM bitstream, and Main Volume Max, record the Output Voltage at FL and FR s to be the 0 dBr Reference value. Set Digital de to -999 dBFS (Generator turned off),Then set meter t	dB	>85	> 90	
		Coaxial 1	adjusted to obtain Voltage at FL and	dz sinewave PCM bitstream, and Main Volume 1 W output into an 8 ohm load. Record the I FR speaker outputs to be the 0 dBr Reference Generator amplitude to -999 dBFS (Generator	dB	> 70	>75	
7	CHANNEL SEPARATION: Zterm = 1KW/1000pF	Coaxial 1	100Hz	With a 0 dBFS, 100 Hz sinewave PCM bitstream, and Main Volume at 20 dB below Max, set meter to read Crosstalk, with dB units. Use 10 Hz-80 KHz BW. Read Crosstalk, when driving FL only, and measuring FR. Then, read Crosstalk, when driving FR only, and me	dB	>60	>65	
			With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume at 20 dB t Max, set meter to read Crosstalk, with units. Use 10 Hz-80 KHz BW. Read Cross when driving FL only, and measuring FR read Crosstalk, when driving FR only, an		dB	>60	> 65	
			10 KHz	With a 0 dBFS, 10 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, set meter to read Crosstalk, with dB units. Use 10 Hz-80 KHz BW. Read Crosstalk, when driving FL only, and measuring FR. Then, read Crosstalk, when driving FR only, and me	dB	>50	>60	

DETAILED SPECIFICATIONS (CONT'D)

8	FREQUENCY RESPONSE	Coaxial 1	20 Hz	With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, record the Output Voltage at FL and FR speaker outputs to be the 0 dBr, 1 KHz Reference value. Set meter to read Amplitude with dBr units, and a 10 Hz-500 KHz BW. Then, ch	dBr	> -0.7	> -0.3	
		Coaxial 1	20 KHz	With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, record the Output Voltage at FL and FR speaker outputs to be the 0 dBr, 1 KHz Reference value. Set meter to read Amplitude with dBr units, and a 10 Hz-500 KHz BW. Then, ch	dBr	>-3	> -2	

Digital Input data is a 96 KHz sampling rate, 24 bit, no Pre-emphasis, PCM bitstream. FRONT AMP SECTION

No	RONT AMP SECTION DESCRIPTION	INPUT		REMARK	UNIT	LIMIT	NOMINAL	
1	Dynamic Range	Coaxial 1	at 20 dB below M units. Use 'A Wei	Iz sinewave PCM bitstream, and Main Volume lax, set meter to read THD+N Ampl, with dBr ghting' filter, 10 Hz-80 KHz BW. Record the at FL and FR speaker outputs to be the 0 dBr Reference val	dB	>90	>93	
2	RESIDUAL NOISE	Coaxial 1	off), 1 KHz sineway below Max, set me	rator amplitude at -999 dBFS (Generator turned ve PCM bitstream, and Main Volume at 20 dB eter to read Amplitude,10 Hz-22 KHz BW. Take adings on both FL and FR Speaker Outputs.	mVrms	<1	<0.8	
		Coaxial 1	off), 1 KHz sineway below Max, set me	rator amplitude at -999 dBFS (Generator turned ve PCM bitstream, and Main Volume at 20 dB eter to read Amplitude,10 Hz-80 KHz BW. Take adings on both FL and FR Speaker Outputs.	mVrms	<1.5	<1	
		Coaxial 1	off), 1 KHz sineway below Max, set me	rator amplitude at -999 dBFS (Generator turned ve PCM bitstream, and Main Volume at 20 dB eter to read Amplitude,10 Hz-22 KHz BW. Take Idings on both FL and FR Speaker Outputs.	mVpk	<3	<2	
3	TOTAL HARMONIC DISTORTION	Coaxial 1	With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, set meter to read THD+N, with % units. Use 10 Hz-22 KHz BW. Read THD+N Ratio, with dBr units on both FL and FR Speaker Outputs.		%	<0.25	<0.15	
			1 KHz	With a 0 dBFS, 20 Hz sinewave PCM bitstream, and Main Volume at 20 dB below Max, set meter to read THD+N, with % units. Use 10 Hz-22 KHz BW. Read THD+N Ratio, with dBr units on both FL and FR Speaker Outputs.	%	0.6	0.4	

			20 KHz	With a 0 dBFS, 20 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, set meter to read THD+N Ratio, with % units. Use 10 Hz-22 KHz BW. Read THD+N Ratio, on both FL and FR Speaker Outputs.	%	<0.25	<0.15	
4	IMD(SMPTE)	Coaxial 1	Sine wave # 1 f =80Hz. Ampl=4, sine wave # 2 f= 2 KHz. Ampl=1 With a 0 dBFS, SMPTE (80 Hz-4X:2 KHz-1X) waveform PCM bitstream, and Main Volume at 20 dB below Max, set meter to read SMPTE/DIN Distortion, with % units. Read SMPTE/DIN Distortion, on both FL and FR Speaker Outputs.		%	0.6	0.4	
5	S/N RATIO,IHF-A FILTER	Coaxial 1	With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, record the Output Voltage at FL and FR speaker outputs to be the 0 dBr Reference value. Set Digital Generator amplitude to -999 dBFS (Generator turned off),Then set meter t		dB	>85	> 90	
		Coaxial 1	With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume adjusted to obtain 1 W output into an 8 ohm load. Record the Output Voltage at FL and FR speaker outputs to be the 0 dBr Reference value. Set Digital Generator amplitude to -999 dBFS (Generator turned off),Then set meter t		dB	> 70	>75	
6	FREQUENCY RESPONSE	Coaxial 1	With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, record the Output Voltage at FL and FR 20 Hz speaker outputs to be the 0 dBr, 1 KHz Reference value. Set meter to read Amplitude with dBr units, and a 10 Hz-500 KHz BW. Then, ch		dBr	> -0.7	> -0.3	
		Coaxial 1	20 KHz	With a 0 dBFS, 1 KHz sinewave PCM bitstream, and Main Volume at 20 dB below Max, record the Output Voltage at FL and FR speaker outputs to be the 0 dBr, 1 KHz Reference value. Set meter to read Amplitude with dBr units, and a 10 Hz-500 KHz BW. Then, ch	dBr	> -3	>-2	

DETAILED SPECIFICATIONS (CONT'D)

TUNER SECTION

Measuring methods in confirmity with IEC standard 315

Measurements condition FM: Radio frequency = 98MHz, Audio frequency = 1kHz

Reference level = 1 mV on (750hms, 3000hms)

Deviation MONO = 75kHz, Stereo = 67.5kHz 7.5kHz

MONO = 40kHz, Stereo = 40kHz 7.5kHz

Test Point : TP 1 = 90MHz, TP 2 = 98MHz, TP 3 = 106MHz

Filter = B.P.F at STEREO

Power supply: 120 V, 60 Hz

• FM SECTION

No	DESCRIPTION	1	UNIT	LIMIT	NOMINAL		
1	Tuning Range	Low ~ High	MHz	87.5~10	8M		
	Step	Auto/Man.	kHz	10	00		
		TP 1	dBf	> 17.2	> 14.2		
2	Usable Sensitivity S/N=(26, 30)dB	TP 2	dBf	> 17.2	> 14.2		
		TP 3	dBf	> 17.2	> 14.2		
3	Full Limiting Sens	Output = $-3dB$	dBf	> 15.2	> 12.2		
4	Auto Stop Level	Stereo	dBf	33.2 +/- 6	33.2 +/- 5		
5	Auto Scan Error	Stereo	kHz	+/- 20/20	+/- 40/40		
6	S/N Ratio IHF-A"Filter	Mono	dB	> 65	> 70		
0	S/N Ratio THF-A Filter	Stereo	dB	> 63	> 68		
7	Total Harmonic Distortion	Mono	%	> 0.5	> 0.3		
7	Total Harmonic Distortion	Stereo	%	> 0.8	> 0.5		
8	(50 AC) ID Ovietine Con-	Mono	dBf	< 23.2	< 20.2		
0	(50, 46)dB Quieting Sens	Stereo	dBf	< 48.3	< 45.3		
		100Hz	dB	> 35	> 40		
9	Channel Separation	1kHz	dB	> 35	> 40		
		10kHz	dB	> 30	> 35		
10	Frequency Response at 1,-3dB	Mono	Hz	20~14K	10~15K		
11	Spurious Response	Mono	dB	> 60	> 70		
12	IF Rejection	TP 1	dB	> 70	> 80		
13	Image Rejection	TP 3	dB	> 60	> 70		
14	AM Rejection Ratio	Mono	dB	> 50	> 55		
15	RF Intermodulation	Mono	dB				
16	Capture Ratio	Mono	dB	< 3	< 2		
17	Alternative ch Selectivity	400kHz	dB	> 65	> 70		
19	Output Level Mono	Mono	mV	500 +/- 150	500 +/- 100		

Measuring methods in confirmity with IEC standard 315

 $Measurements\ condition\ AM-MW: Radio\ frequency = 1000/999kHz,\ Audio\ frequency = 400Hz$

 $LW: Radio\ frequency = 207kHz,\ Audio\ frequency = 400Hz$

Reference level = 5mV/m, 10mV/m on 50ohms

Modulation = 30%

Test Point: MW TP1 = (600)kHz TP 2=(1000)kHz TP 3=(1400)kHz

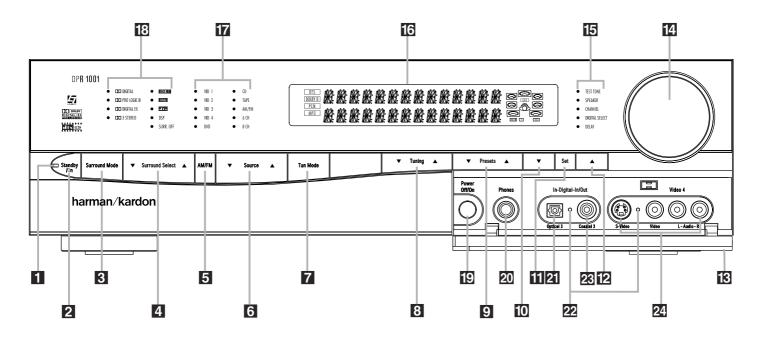
LW TP1 = 162kHz, TP2 = 207kHz, TP3 = 252kHz

DETAILED SPECIFICATIONS (CONT'D)

● AM SECTION DPR1001

	AM SECTION		DPR′	1001					
No	0 DESCRIPTION		UNIT	LIMIT	NOMINAL				
	Tuning Cover Range	Low ~ High MW		kHz	520~1710			•	
1	Ston	LW Auto/Man.		kHz					
	Step			kHz	10)		-	
			TP 1	uV/m	> 2000	> 1000			
		MW	TP 2	uV/m	> 2000	> 1000			
2	Usable Sensitivity S/N=20dB		TP 3	uV/m	> 2000	> 1000			
	Usable Sensitivity S/N-20dB		TP 1	uV/m					
		LW	TP 2	uV/m					
			TP 3	uV/m					
,	C/N Datia Lagret_10mV/m	М	W	dB	> 35	> 40			
3	S/N Ratio Input=10mV/m	LW		dB					
4	Total Harmonic Distortion	М	W	%	> 3.0	> 1.5			
5	Over Load Distortion 5mV 80% MOD	М	W	%	> 10	> 5			
6	European Promono et 6dD	MW		Hz	100~2K	80~2.3K			
6	Frequency Response at -6dB	LW		Hz					
7	Calaativity 10kH=/0kH=	MW		dB	> 20	> 25			
$ \ ' \ $	Selectivity 10kHz/9kHz	LW		dB					
8	AGC Figure df Merit	Input 1	100mV	dB	> 50	> 55			
9	Image Rejection	MW =	= TP 3	dB	> 28	> 33			
9	mage Rejection	LW = TP 3		dB					
10	Whistle Modulation Input=1mV/m	2.	IF	%	> 15	> 10			
10	whistie Modulation Input-Iniv/in	3.	IF	%	> 15	> 10			
11	Auto Stop Lovel	MW		uV/m	1000(+/- 6dB)	1000 (+/- 5d	3)		
11	Auto Stop Level	LW		uV/m					
12	Tuned Level	MW		uV/m	1000 (+/- 6dB)	1000 (+/- 5dl	3)		
12	i uneu Levei	L	W	uV/m					
13	Output Level (input 10mV)	M	W	mV	160 +/- 40	160 +/- 30			

FRONT PANEL CONTROLS



- 1 Power Indicator
- 2 Standby/On Button
- 3 Surround Mode Selector
- 4 Surround Select Button
- 5 AM/FM Selector
- 6 Input Source Selector
- 7 Tuning Mode Selector
- 8 Tuning Selector
- 9 Preset Station Selector

- **10** ▼ Button
- 11 Set Button
- **12** ▲ Button
- 13 Door
- 14 Volume Control
- 15 System Configuration Indicators
- 16 Main Information Display
- 17 Input Indicators
- 18 Surround Mode Indicators

- 19 Main Power Switch
- **20** Headphone Jack
- 21 Digital Optical 3 Input
- 22 Input/Output Status Indicators
- 23 Digital Coax 3 Jack
- 24 Video 4 Input/Output Jacks

NOTE: To make it easier to follow the installation instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section at www.harmankardon.com.

- 1 Power Indicator: This LED turns red when the unit is in the Standby mode to signal that the unit is ready to be turned on. When the unit is in operation, the indicator will turn green.
- 2 Standby/On Button: When the Main Power Switch 19 is "ON," press this button to turn on the DPR 1001; press it again to turn the unit off. The Power Indicator 1 will turn green when the unit is on.

NOTE: The **Main Power Switch 19** must be turned on before this button will operate.

3 Surround Mode Selector: Press this button to choose a surround processing format category by scrolling through the list of available formats as indicated in the Surround Mode Indicators 13.

These format categories are: Dolby surround modes, DTS Digital modes, DTS Neo:6 modes, Logic 7 modes, DSP modes and Stereo modes. Once you have selected a format category, use the **Surround Select Button 4** to choose a specific mode within the overall category.

- 4 Surround Select Button: After choosing a surround processing format category by using the Surround Mode Selector 3, press this button to scroll through the list of available modes for that format category. For example, to select the 7.1 Logic 7 Cinema mode, press the Surround Mode Selector 3 until the indicator next to Logic 7 18 is lit. Then press the Surround Select Button 4 to scroll through the available choices until the desired mode appears in the Main Information Display 16. (For more information see page 26.)
- **5** AM/FM Selector: Pressing this button will automatically switch the DPR 1001 to the Tuner mode. Pressing it again will switch between the AM and FM frequency bands. (See page 28 for more information on the tuner.)
- **6 Input Source Selector**: Press this button to change the input by scrolling up or down through the list of input sources.
- Tuning Mode Selector: This button is used to switch back and forth between the Auto and Manual tuning modes. In Auto mode, you may use the Tuning Selector 3 to scan through stations with an acceptable signal. In Manual mode, you may use the Tuning Selector 3 to step through one frequency increment at a time.

FRONT PANEL CONTROLS (CONT'D)

This button is also used to switch between Stereo and Mono modes for FM radio reception. When weak reception is encountered, press the button to switch to the Mono mode. Press it again to switch back to Stereo mode. (See page 28 for more information on using the tuner.)

8 Tuning Selector: Press the left side of the button to tune lower-frequency stations and the right side of the button to tune higher-frequency stations.

In Manual tuning mode, tap the button lightly and the tuner will step up one frequency increment per button press. When the button is held for a few seconds, the unit will quickly advance through the frequency band. Release it and the tuner will stop. In Auto tuning mode, each press of the button will search for the next station with an acceptable signal. Press and hold the button to skip through the acceptable stations. When the button is released, the tuner will not stop until it reaches a station with an acceptable signal.

To switch back and forth between the Auto and Manual tuning modes, press the **Tuning Mode Selector 7**.

- **9** Preset Station Selector: Press this button to scroll up or down through the list or stations that have been entered into the preset memory. (See page 28 for more information on tuner programming.)
- ■ Button: Use this button to scroll through the System Configuration modes indicated on the front panel: i.e., Test Tone, Speaker, Channel, Digital Select and Delay. Press the Set Button 1 to select a configuration mode, and use this button or the Button 2 to scroll through the available adjustments for each System Configuration mode. (See pages 17–23 for more information on configuring the DPR 1001.)
- Set Button: Press this button to access the configuration menus for Test Tone, Speakers Channel Trim, Digital Input Select or Delay. After pressing the button, use the
 ▼ Buttons 1012 to select the desired menu. (See pages 17–23 for more information.)
- Button: Use this button to scroll through the System Configuration modes indicated on the front panel: i.e., Test Tone, Speaker, Channel, Digital Select and Delay. Press the Set Button 11 to select a configuration mode, and use this button or the Button 10 to scroll through the available adjustments for each System Configuration mode. (See pages 17–23 for more information on configuring the DPR 1001.)

- **13** Door: Gently pull the upper right corner of this door, indicated by the word "Open", toward you to reveal additional front panel jacks and controls.
- 14 Volume Control: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume. If the DPR 1001 is muted, adjusting the volume control will automatically release the unit from the silenced condition.
- **15** System Configuration Indicators: One of these indicators will light, after the **Set Button 11** has been pressed, to indicate which configuration option is in use. Press the ▲ ▼ **Buttons 1012** to change the selection. (See pages 17–23 for more information.)
- **16** Main Information Display: This display delivers messages and status indications to help you operate the receiver. (See page 7 for a complete explanation of the Main Information Display.)
- **17** Input Indicators: An LED will light to the left of the input that is currently the input source for the DPR 1001.
- **18** Surround Mode Indicators: An LED will light in front of the surround mode that is currently in use.
- **19 Main Power Switch**: Press this button in to apply power to the DPR 1001. When the switch is pressed in, the unit is placed in a Standby mode, as indicated by the red **Power Indicator 1**. This button *must* be pressed in to operate the unit. To turn the unit off and prevent the use of the remote control, this switch should be pressed until it pops out from the front panel.

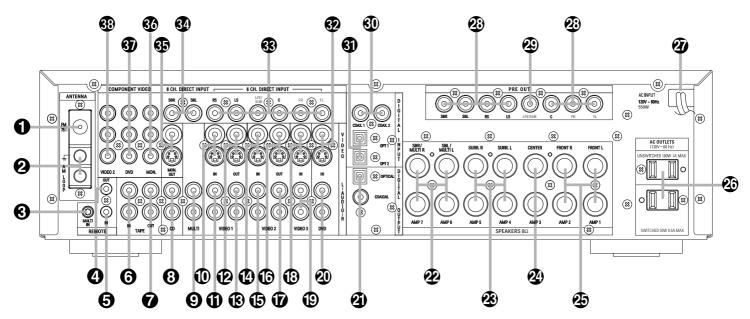
NOTE: This switch is normally left in the "ON" position.

- **20 Headphone Jack:** This jack may be used to listen to the DPR 1001's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phone plug. The main room speakers will automatically be turned off when the headphone jack is in use.
- **21** Digital Optical 3 Input: Connect the optical digital audio output of an audio or video product to this jack. When the input is not in use, be certain to keep the plastic cap installed to avoid dust contamination that might degrade future performance.

- 22 Input/Output Status Indicators: These LED indicators will normally light green to show that the front panel Digital Coax 3 Jack 23 or Video 4 Input/Output Jacks 24 are operating as inputs. When either of these jacks has been configured for use as an output, the indicator will turn red to show that the jack may be used for recording. (See page 18 or 29 for more information on configuring the front panel jacks as outputs, rather than inputs.)
- Digital Coax 3 Jack: This jack is normally used for connection to the output of portable audio devices, video game consoles or other products that have a coax digital audio jack. It may also be configured as an output jack, to feed a digital signal to a CD-R, MiniDisc or other digital recording device. (See page 18 or 29 for information on configuring the Digital Coax 3 Jack as an output.)
- **24** Video 4 Input/Output Jacks: These audio/video jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players. These jacks may also be configured as an output to feed an analog audio/video signal to a VCR, camcorder, tape deck or other recording device. (See page 18 or 29 for information on configuring the Video 4 jacks as outputs.)

harman/kardon **DPR1001**

REAR PANEL CONNECTIONS



- FM Antenna
- 2 AM Antenna
- Multiroom IR Input
- 4 Remote IR Output
- 6 Remote IR Input
- **6** Tape Inputs
- **7** Tape Outputs
- 8 CD Inputs
- Multiroom Outputs
- Wideo 1 Video Inputs
- Wideo 1 Audio Inputs
- 12 Video 1 Video Outputs
- Video 1 Audio Outputs

To assist you in making the correct connections for multichannel input, output and speaker connections, all connection jacks and terminals have been colorcoded in conformance with the CEA standards as follows:

- Wideo 2 Video Inputs
- 1 Video 2 Audio Inputs
- 16 Video 2 Video Outputs
- Video 2 Audio Outputs
- Wideo 3 Video Inputs
- Video 3 Audio Inputs
- 20 DVD Audio Inputs
- 2) Digital Audio Outputs
- 22 Surround Back/Multiroom Speaker Outputs
- Surround Speaker Outputs
- Center Speaker Outputs
- Front Speaker Outputs
- AC Accessory Outlets

Front Left: White

Front Right: Red

Center: Green

Surround Left: Blue Surround Right: Gray

Surround Back Right: Tan

Surround Back Left: Brown

NOTE: To make it easier to follow the installation instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section at www.harmankardon.com.

- **1** FM Antenna: Connect the supplied indoor (or an optional external) FM antenna to this terminal.
- 2 AM Antenna: Connect the AM loop antenna supplied with the receiver to these terminals. Connect the black antenna wire marked GND to the top terminal screw on the DPR with the grounding symbol.
- 3 Multiroom IR Input: Connect the output of an IR sensor in a remote room to this jack to operate the DPR 1001's multiroom control system. (See pages 31 for more information on multiroom systems.)
- 4 Remote IR Output: This connection permits the

- IR sensor in the receiver to serve other remote con trolled devices. Connect this jack to the "IR IN" jack on Harman Kardon (or other compatible) equipment.
- **6** Remote IR Input: If the DPR 1001's front panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack.
- **6** Tape Inputs: Connect these jacks to the PLAY/OUT jacks of an audio recorder.
- 7 Tape Outputs: Connect these jacks to the RECORD/INPUT jacks of an audio recorder.

- 20 AC Power Cord
- 28 Preamp Outputs
- 29 LFE/Subwoofer Output
- 30 Coaxial Digital Audio Inputs
- 3 Optical Digital Audio Inputs
- 32 DVD Video Inputs
- 33 6-Channel Direct Inputs
- **34** 8-Channel Direct Inputs
- 35 Video Monitor Outputs
- 36 Video Monitor Component Video Outputs
- 3 DVD Component Video Inputs

Component Video "Pb": Blue

38 Video 2 Component Video Inputs

Subwoofer: Purple Digital Audio: Orange Composite Video: Yellow Component Video "Y": Green Component Video "Pr": Red

- 8 CD Inputs: Connect these jacks to the output of a compact disc player or changer.
- **9** Multiroom Outputs: Connect these jacks to an optional audio power amplifier to listen to the source selected by the mulitroom system. (See page 31 for more information on the multiroom system.)
- **(iii)** Video 1 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a VCR or other video source.
- 1 Video 1 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a VCR or other video source.

REAR PANEL CONNECTIONS (CONT'D)

- **12** Video 1 Video Outputs: Connect these jacks to the RECORD/INPUT composite or S-Video jack on a VCR.
- **③** Video 1 Audio Outputs: Connect these jacks to the RECORD/INPUT audio jacks on a VCR.
- (1) Video 2 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a TV or other video source.
- **(b)** Video 2 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a TV or other video source
- **(b)** Video 2 Video Outputs: Connect these jacks to the RECORD/INPUT composite or S-Video jacks on a TV or other video source.
- **7** Video 2 Audio Outputs: Connect these jacks to the RECORD/INPUT audio jacks on a TV or other video source.
- **(B)** Video 3 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a cable box or other video source.
- Video 3 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a cable box or other video source.
- **② DVD Audio Inputs:** Connect these jacks to the analog audio jacks on a DVD or other video source.
- ② Digital Audio Outputs: Connect these jacks to the matching digital input connector on a digital recorder such as a CD-R or MiniDisc recorder.
- Surround Back/Multiroom Speaker Outputs: These speaker terminals may be used with 7.1-channel systems or to power the output of the multiroom system when the multiroom system and the main room are using the same input. Connect these outputs to the matching + and - terminals on your surround back channel speakers. In conformance with the CEA color-code specification, the brown terminal is the positive (+) terminal that should be connected to the red (+) terminal on the Surround Back Left speaker with older color-coding, while the tan terminal should be connected to the red (+) terminal on the Surround Back Right speaker with older color-coding. Connect the black (-) terminal on the receiver to the matching black negative (-) terminals for each surround back speaker. (See page 14 for more information on speaker polarity and pages 19-20 for information on configuring the DPR 1001 for 7.1 speaker channels. See page 31 for information on powering the multiroom system with the DPR 1001's internal amplifier.)
- **Surround Speaker Outputs:** Connect these outputs to the matching + and terminals on your surround channel speakers. In conformance with the

- new CEA color-code specification, the blue terminal is the positive (+) terminal that should be connected to the red (+) terminal on the Surround Left speaker with older color-coding, while the gray terminal should be connected to the red (+) terminal on the Surround Right speaker with the older color-coding. Connect the black (-) terminal on the receiver to the matching black negative (-) terminals for each surround speaker. (See page 14 for more information on speaker polarity.)
- **29** Center Speaker Outputs: Connect these terminals to the matching + and terminals on your center channel speaker. In conformance with the new CEA color-code specification, the green terminal is the positive (+) terminal that should be connected to the red (+) terminal on speakers with the older color-coding. Connect the black (–) terminal on the receiver to the black negative (–) terminal on your speaker. (See page 14 for more information on speaker polarity.)
- ₹5 Front Speaker Outputs: Connect these outputs to the matching + or − terminals on your left and right speakers. The white terminal is the positive (+) terminal that should be connected to the red (+) terminal on the Front Left speaker with older color-coding, while the red terminal should be connected to the red (+) terminal on the Front Right speaker with the older color-coding. Connect the black (−) terminal on the receiver to the matching black negative (−) terminals for each front speaker. (See page 14 for more information on speaker polarity.)
- **23** AC Accessory Outlets: These outlets provide power for low-current devices such as a VCR, cable box, CD or DVD player. However, they should *not* be used with high-current devices such as amplifiers. The total power consumption of all devices connected to the accessory outlets should not exceed 100 watts.

The bottom outlet is switched, which means that power is supplied only when the DPR is turned on. Since the power is removed when the DPR is turned off, this outlet should not be used for devices such as VCRs where a constant power source is required for a clock or timer.

The top outlet is unswitched, which means that power is available only when the DPR is plugged in.

- **27** AC Power Cord: Connect the AC plug to an unswitched AC wall output.
- **②** Preamp Outputs: These jacks may be connected to an external power amplifier.
- ② LFE/Subwoofer Output: Connect this jack to the line-level input of a powered subwoofer. This output is filtered, and should be connected to your subwoofer's LFE or other input that bypasses the subwoofer's internal crossover. Consult the owner's manual for

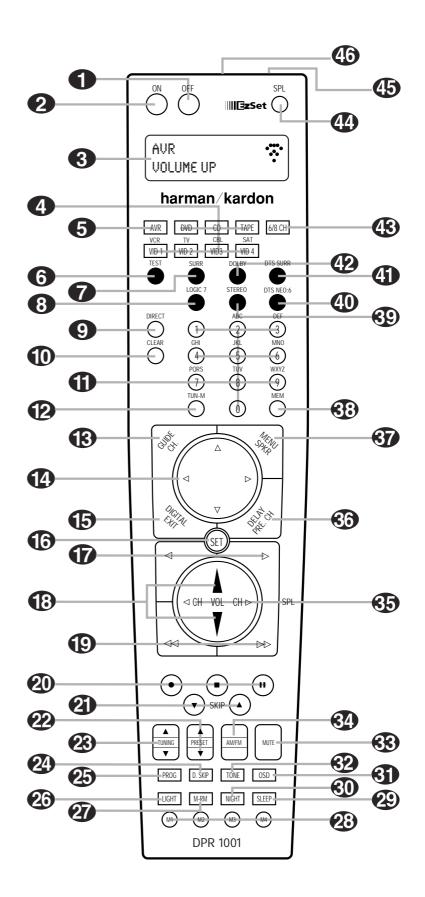
- your subwoofer for further information. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input.
- € Coaxial Digital Audio Inputs: Connect the coax digital audio output from a DVD player, HDTV receiver, cable box or satellite receiver, the S/P-DIF output of a compatible computer sound card playing MP3 files or streams, an LD player or a CD player to these jacks. The signal may be a Dolby Digital, DTS or compatible MP3 signal, or standard PCM digital source. Do not connect the RF digital output of an LD player directly to these jacks.
- Optical Digital Audio Inputs: Connect the optical digital audio output from a DVD player, HDTV receiver, cable box or satellite receiver, the S/P-DIF output of a compatible computer sound card playing MP3 files or streams, an LD player or a CD player to these jacks. The signal may be a Dolby Digital signal, DTS signal, compatible MP3 signal or standard PCM digital source.
- **29 DVD Video Inputs:** Connect these jacks to the composite or S-Video output jacks on a DVD or other video source.
- **3 6-Channel Direct Inputs:** When an optional playback device such as a DVD-Audio or SACD player with 5.1 audio capability is in use, connect the player's output jacks here.
- 8-Channel Direct Inputs: When an optional playback device such as a DVD-Audio or SACD player with 6.1 or 7.1 audio capability is in use, first connect the Front, Center and Surround Channel outputs to the 6-Channel Direct Input Jacks ③ , then connect the Surround Back channel outputs of the player to these input jacks.
- **᠍** Video Monitor Outputs: Connect this jack to the composite or S-Video input of a TV monitor or video projector to view the on-screen menus and the output of a composite or S-Video source selected by the DPR 1001.
- **37 DVD Component Video Inputs:** Connect the Y/Pr/Pb component video outputs of a DVD player to these jacks.
- **33** Video 2 Component Video Inputs: Connect the Y/Pr/Pb component video outputs of an HDTV set-top convertor, satellite receiver or other video source device with component video outputs to these jacks.

REMOTE CONTROL FUNCTIONS

- Power Off Button
- 2 Power On Button
- 3 LCD Information Display
- 4 Input Selectors
- **5** AVR Selector
- **6** Test Button
- 7 DSP Surround Mode Selector
- 8 Logic 7 Mode Select Button
- 9 Direct Button
- Clear Button
- Numeric Keys
- Tuning Mode Button
- (B) Channel Select Button
- 14 Navigation Button
- Digital Select Button
- 16 Set Button
- Transport Play Buttons
- 18 Volume Up/Down Buttons
- Transport Fast-Play/Scan Buttons
- **20** Main Transport Controls
- Track Skip Up/Down Buttons
- Preset Up/Down Button
- Tuning Up/Down Button
- 24 Disc Skip Button
- 25 Program Button
- **26** Light Button
- Multiroom Button
- Macro Buttons
- Sleep Button
- 30 Night Mode Button
- 30 OSD Button
- 3 Tone Control Button
- 33 Mute Button
- 34 AM/FM Button
- 35 Channel Up/Down Selector
- 36 Delay Select Button
- 37 Speaker Select Button
- 38 Memory Button
- 39 Stereo Mode Select Button
- **40** DTS Neo:6 Mode Select Button
- 41 DTS Digital Mode Select Button
- 42 Dolby Surround Mode Select Button
- 43 6/8-Channel Input Select
- 44 SPL Select Button
- 45 EzSet Microphone Sensor
- 46 Lens

NOTES:

- The function names shown here are each button's feature when used with the DPR 1001. Most buttons have additional functions when used with other devices. When a button is pressed, the function name will appear in the bottom line of the LCD Information Display
- The jack on the upper right side of the remote is reserved for future use. Do not remove the plug provided or connect any device to the jack.
- To make it easier to follow the installation instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section at www.harmankardon.com.



REMOTE CONTROL FUNCTIONS (CONT'D)

IMPORTANT NOTE: The DPR 1001's remote may be programmed to control up to eight devices, including the DPR 1001. Before using the remote, it is important to remember to press the Input Selector Button ◆ that corresponds to the unit you wish to operate. In addition, the DPR 1001's remote is shipped from the factory to operate the DPR 1001 and most Harman Kardon CD or DVD players and cassette decks. The remote is also capable of operating a wide variety of other products using the control codes that are part of the remote. Before using the remote with other products, follow the instructions on pages 32−34 to program the proper codes for the products in your system.

It is also important to remember that many of the buttons on the remote take on different functions, depending on the product selected using the Device Control Selectors. The descriptions shown here primarily detail the functions of the remote when it is used to operate the DPR 1001.

- Power Off Button: Press this button to place the DPR 1001 or a selected device in the Standby mode. Note that this will turn off the main room functions, but if the Multiroom system is activated, it will continue to function.
- **2** Power On Button: Press this button to turn on the power to a device selected by first pressing one of the Input Selectors **4**.
- **3** LCD Information Display: This two-line screen displays various information depending on the commands that have been entered into the remote.
- 4 Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the DPR 1001 is not turned on, this will power up the unit. Next, it will select the source shown on the button as the input to the DPR 1001. Finally, it will change the remote control so that it controls the device selected. After pressing one of these buttons you must press the AVR Selector Button 5 again to operate the DPR 1001's functions with the remote.
- **5 AVR Selector:** Pressing this button will switch the remote so that it will operate the DPR 1001's functions. If the DPR 1001 is in the Standby mode, it will also turn the DPR 1001 on.
- **6** Test Button: Press this button to begin the sequence used to calibrate the DPR 1001's output levels. (See page 23 for more information on calibrating the DPR 1001.)
- **OSP Surround Mode Selector:** Press this button to select from among the available DSP surround modes. (See page 26 for more information on the Theater, Hall and VMAx modes.)

- **8** Logic 7 Selector: Press this button to select from among the available Logic 7 surround modes. (See page 26 for the available Logic 7 options.)
- **9 Direct Button:** Press this button when the tuner is in use to start the sequence for direct entry of a station's frequency. After pressing the button, simply press the proper **Numeric Keys 1** to select a station. (See page 28 for more information on the tuner.)
- (1) Clear Button: When programming the remote or using the EzSet feature, press this button to cancel the current function. When using the remote to enter frequencies for direct tuner access, press this button to clear previous entries.
- Numeric Keys: These buttons serve as a tenbutton numeric keypad to enter tuner preset positions. They are also used to select channel numbers when TV, Cable or SAT has been selected on the remote, or to select track numbers on a CD, DVD or LD player, depending on how the remote has been programmed.
- ② Tuning Mode: Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that MANUAL TUNING appears in the Lower Display Line ■, pressing the Tuning Selector ② ② will move the frequency up or down in single-step increments. When the FM band is in use, pressing this button for manual tuning when a station's signal is weak will change to monaural reception. (See page 28 for more information.)
- (3) Channel Select Button: This button is used to start the process of setting the DPR 1001's output levels to an external source. Once this button is pressed, press the ▲/▼ on the Navigation Button (12) to select the channel being adjusted, then press the Set Button
- (f), followed by the ▲/▼ on the Navigation Button
 again, to change the level setting. (See page 29 for more information.)
- Navigation Button: This single disc-like button is used to navigate through the on-screen configuration menus, to scroll through the options list and to select choices for the various settings such as delay, speakers, surround modes, digital inputs, etc. To use the button, simply press it left, right, up or down in the direction indicated by the AVAD icons printed on the button disc. Depending on the menu being used, pressing the button will either change the video highlight that indicates a specific choice or it will change the option shown in the on-screen or front panel display. The sections in this manual describing the unit's individual features and configuration options contain specific information on how the navigation controls are used.
- Object Button: Press this button to assign one of the digital inputs (1) (1) 2123 to a source. (See page 27 for more information on using digital inputs.)

- **(6)** Set Button: This button is used to enter settings into the DPR 1001's memory. It is also used in the setup procedures for delay time, speaker configuration and channel output level adjustment.
- Transport Play Buttons: These buttons have no direct function on the DPR 1001, but they are used when the remote is programmed for a compatible DVD, CD or tape player. Pressing these buttons will transmit a forward- or reverse-play command, according to the capabilities of the player being controlled. In the factory default setting, these buttons are programmed for Harman Kardon DVD players so that you may control a compatible player without having to switch devices.
- (B) Volume Up/Down Buttons: These controls share the common disc in the lower third of the remote. To raise the volume, press the button marked ▲ by pressing towards the top of the remote. To lower the volume, press the button marked ▼ by pressing towards the bottom of the remote. The ◄/▶ buttons on the left and right sides of this disc change channels up or down when the TV, cable box or satellite Input Selectors ④ have been pressed.
- Transport Fast-Play/Scan Buttons: These buttons have no direct function on the DPR 1001, but they are used when the remote is programmed for a compatible DVD, CD or tape player. Pressing these buttons will transmit a fast-play forward, fast-play reverse, or fast-forward or -reverse scan command, according to the capabilities of the player being controlled. In the factory default setting, these buttons are preprogrammed with the remote codes for Harman Kardon DVD players so that you may control a compatible player without having to switch devices.
- Main Transport Controls: These buttons have no direct function on the DPR 1001, but they are used when the remote is programmed for a compatible DVD, CD or tape player. Pressing these buttons will transmit a stop (■) record (●) or pause (II) command, according to the capabilities of the player being controlled. In the factory default setting, these buttons are programmed with the remote codes for Harman Kardon DVD players so that you may control a compatible player without having to switch devices.
- Track Skip Up/Down Button: This button does not have a direct function with the DPR 1001, but when used with a compatibly programmed CD or DVD changer it will change the track or chapter currently being played. In the factory default setting, this button is programmed with the remote codes for Harman Kardon DVD players so that you may control a compatible player without having to switch devices.
- **Preset Up/Down Button:** When the tuner is in use, press this button to scroll through the stations programmed into the DPR 1001's memory.

REMOTE CONTROL FUNCTIONS (CONT'D)

- Tuning Up/Down: When the tuner is in use, this button will tune up or down through the selected frequency band. If the Tuning Mode Button has been pressed so that AUTO appears in the Lower Display Line , pressing either button will cause the tuner to seek the next station with acceptable signal strength for quality reception. When MANUAL appears in the Lower Display Line , pressing this button will tune stations in single-step increments. (See page 28 for more information.)
- Quality Disc Skip Button: This button has no direct function for the DPR 1001 but may be used to change the disc in a CD or DVD changer when the remote is programmed for that type of device. (See page 35 for more information.)
- Program Button: This button is used to begin the process of programming the remote. Press and hold this button for three seconds to place the remote in the programming mode. Once the red LED under the Set Button lights, release the button. You may then select from the desired option. (See pages 32–41 for more information on configuring the remote.)
- **25 Light Button:** Press this button to activate the remote's backlight for ease of use in darkened rooms.
- Multiroom: Press this button to activate the multiroom system or to begin the process of changing the input or volume level for the second zone. (See page 31 for more information on the multiroom system.)
- **23** Macro Buttons: Press these buttons to store or recall a "Macro", which is a preprogrammed sequence of commands stored in the remote. (See page 35 for more information on macros.)
- Sleep Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the DPR 1001 will automatically go into the Standby mode. Each press of the button changes the time until turn-off in the following order:

- Night Mode: Press this button to activate the Night mode. This mode is available in specially encoded Dolby Digital sources, and it preserves dialogue (center channel) intelligibility at low volume levels.
- **3) OSD Button**: Press this button to activate the On-Screen Display (OSD) system used to set up or adjust the DPR 1001's parameters.
- Tone Control Button: This button controls whether or not the Bass and Treble controls are active, and, if so, the degree to which they are used. The first press of this button tells the current status of the tone controls: If TONE OUT is displayed in the Lower

- Display Line **B**, the tone controls are not in the signal path, and the DPR's output is "flat." If **TONE IN** is displayed, the controls are active. To switch the tone controls in or out, press the **A/V** Navigation Button **3** so that the desired setting appears. To change the actual bass or treble settings, first make certain that **TONE IN** has been activated, and then press the button again so that either **BASS MODE** or **TREBLE MODE** appears. Within five seconds, press the **A/V** Navigation Button **4** to enter the desired setting.
- Mute: Press this button to momentarily silence the DPR 1001 or TV set being controlled, depending on which device has been selected.
- **3.4** AM/FM Tuner Select: Press this button to select the DPR 1001's tuner as the listening choice. Pressing this button when the tuner is already in use will select between the AM and FM bands.
- Channel Up/Down Selector: These buttons have no function when the DPR is being controlled, but when programmed for use with a VCR, TV, cable box, satellite receiver or other similar product they will change the channel up or down. See pages 32–34 for more information on programming the remote.
- ⑤ Speaker Select: Press this button to begin the process of configuring the DPR 1001's bass management system. Then press the ▲/▼ Navigation Button ② to select the channel you wish to set up. Press the Set Button ⑥ and then select the speaker type. When all adjustments have been completed, press the Set Button ⑥ twice to exit the settings and return to normal operation. (See page 19 for more information on speaker setup.)
- Memory Button: Press this button to enter a radio station into the DPR 1001's preset memory. Once PRESET MEMORY flashes in the Lower Display Line B, you have five seconds to enter a preset memory location using the Numeric Keys 1. (See page 28 for more information.)
- Stereo Mode Selector: Press this button to select a stereo listening mode. The first press of the button places the DPR 1001 in a true, two-channel, left/right Stereo mode with no surround processing. The next press selects either five-channel Stereo or

- seven-channel Stereo, depending on the speaker configuration.
- **40** DTS Neo:6 Mode Selector: Press this button to select a DTS Neo:6 mode. (See page 26 for the available DTS Neo: 6 options.)
- DTS Digital Mode Selector: When a DTS-encoded digital source is playing, each press of this button will scroll through the available DTS modes. The specific choice of modes will vary according to the type of encoding on the disc and your system's speaker configuration. When a DTS source is not in use, this button has no function. (See page 26 for the available DTS digital options.)
- **Dolby Surround Mode Selector:** This button is used to select from the available Dolby Surround modes. Each press of this button will select one of the Dolby Pro Logic II modes or Dolby 3 Stereo. When a Dolby Digital-encoded source is in use, the Dolby Digital mode may also be selected. (See page 26 for the available Dolby surround mode options.)
- 6-Channel/8-Channel Input Select: Press this button to select the device connected to the 6-Channel Direct Inputs
 (See page 29 for more information.)
- **EzSet Microphone Sensor:** The microphone sensor that is used by the EzSet system is behind the three slots at the top of the remote control. When using EzSet to calibrate the DPR 1001 be certain that the slots are not covered. (See page 22 for more information on using EzSet.)
- **46** Lens: The infrared emitters behind the plastic lens at the top of the remote communicate the remote codes to the DPR 1001. Be certain that the lens is not covered when using the remote, and point the lens toward the DPR for best results. In learning mode, the remote receives IR codes to be learned through a sensor behind the lens.
- **NOTE:** DO NOT remove the rubber plug that is supplied to cover the jack on the upper right side of the remote. The jack is not active and is reserved for future use.

BASIC TROUBLESHOOTING/PROCESSOR RESET

SYMPTOM	CAUSE	SOLUTION
Unit does not function when Main Power Switch is pushed.	No AC Power	 Make certain AC power cord is plugged into a live outlet. Check to see whether outlet is switch-controlled.
Display lights, but there is no sound or picture.	Intermittent input connectionsMute is onVolume control is down	 Make certain that all input and speaker connections are secure. Press Mute button. Turn up volume control.
Unit turns on, but front panel display does not light up.	Display brightness is turned off	Follow the instructions in the Display Brightness section on page 30 so that the display is set to VFD FULL.
No sound from any speaker; light around power switch is red.	 Amplifier is in protection mode due to possible short Amplifier is in protection mode due to internal problems 	 Check speaker wire connections for shorts at receiver and speaker ends. Contact your local Harman Kardon service center.
No sound from surround or center speakers.	Incorrect surround modeInput is monauralIncorrect configuration	 Select a mode other than Stereo. There is no surround information from mono sources. Check speaker configuration. (See pages 19–21.)
Receiver does not play correct soundtrack from DTS or Dolby Digital DVDs.	DVD disc or player menus set incorrectly	Check the setup menu in your DVD player or the "Audio" menu in the disc being played to make certain that the player is set for the desired output signal.
Unit does not respond to remote commands.	Weak batteries in remoteWrong device selectedRemote sensor is obscured	 Change remote batteries. Press the AVR selector. Make certain front panel sensor is visible to remote, or connect remote sensor.
Intermittent buzzing in tuner.	Local interference	Move unit or antenna away from computers, fluorescent lights, motors or other electrical appliances.
Speaker Channel Input indicators flash and digital audio stops.	Digital audio feed paused	Resume play for DVD. Check that Digital Input is selected.

Processor Reset

In the rare case in which the unit's operation or the displays seem abnormal, the cause may involve the erratic operation of the system's memory or microprocessor.

To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem.

To totally reset the DPR 1001's processor and clear all setting and configuration data, including all tuner presets, output level settings, delay times, surround mode choices, speaker configuration and crossover data, follow these steps:

1. Turn the unit completely off by pressing the Main Power Switch 19 so that it is in the OFF position.

- Press and hold the Tuning Mode Selector 7
 and the Tuning ▼ Button 3, and at the same time press the Main Power Switch 19 in so that it is in the ON position.
- 4. After a few seconds the unit will go into a display test mode that will illuminate all segments of the Main Information Display 16.
- 5. Press the **Standby/On Button 2** to return the DPR to normal operation.

When the reset is complete you may return to normal operation, but remember that all system configuration settings and tuner presets will have to be reentered.

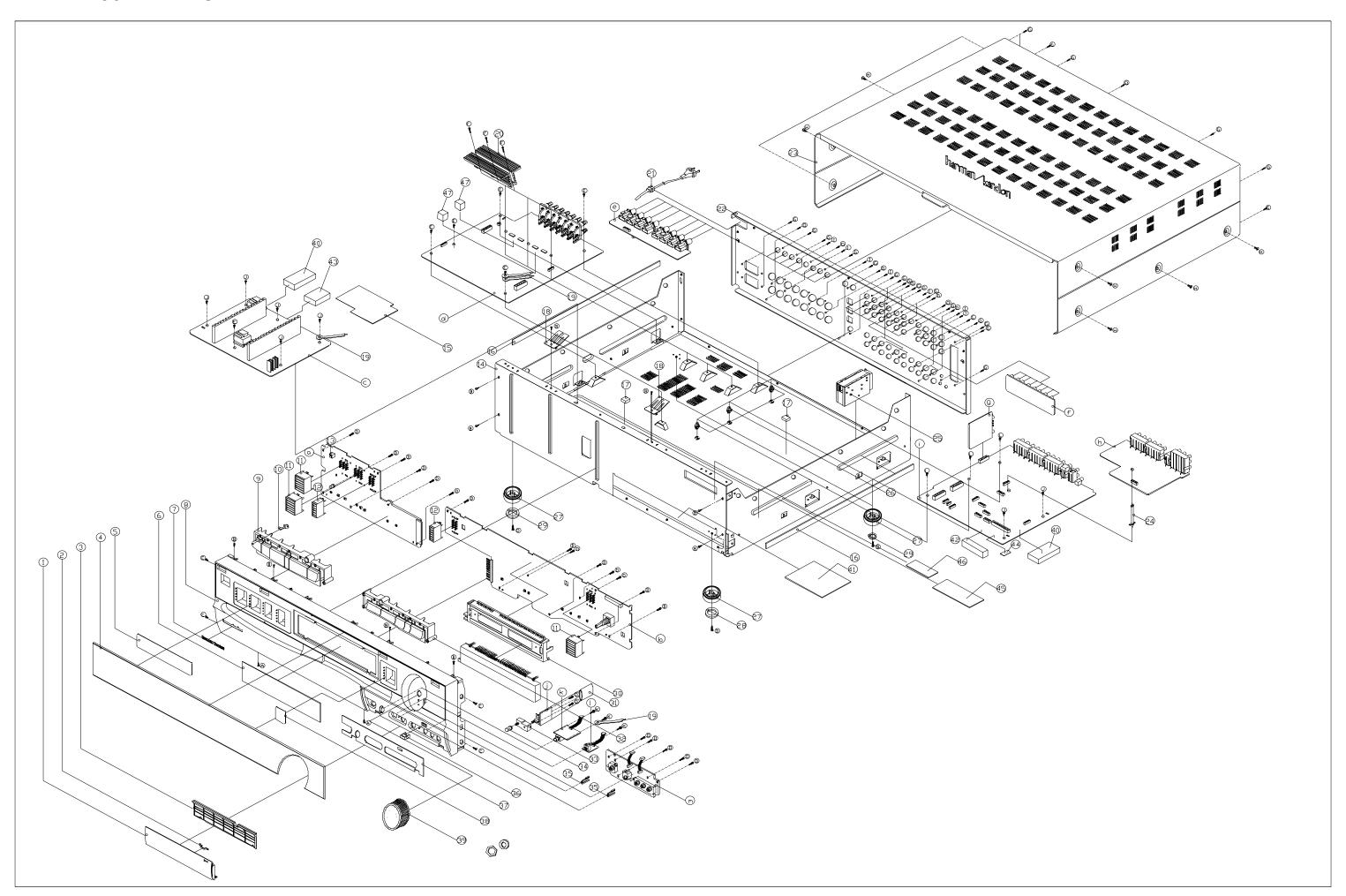
NOTE: Resetting the processor will erase any configuration settings you have made for speakers, output levels, surround modes and digital input assignments,

as well as the tuner presets. After a reset, the unit will be returned to the factory presets, and all settings for these items must be reentered.

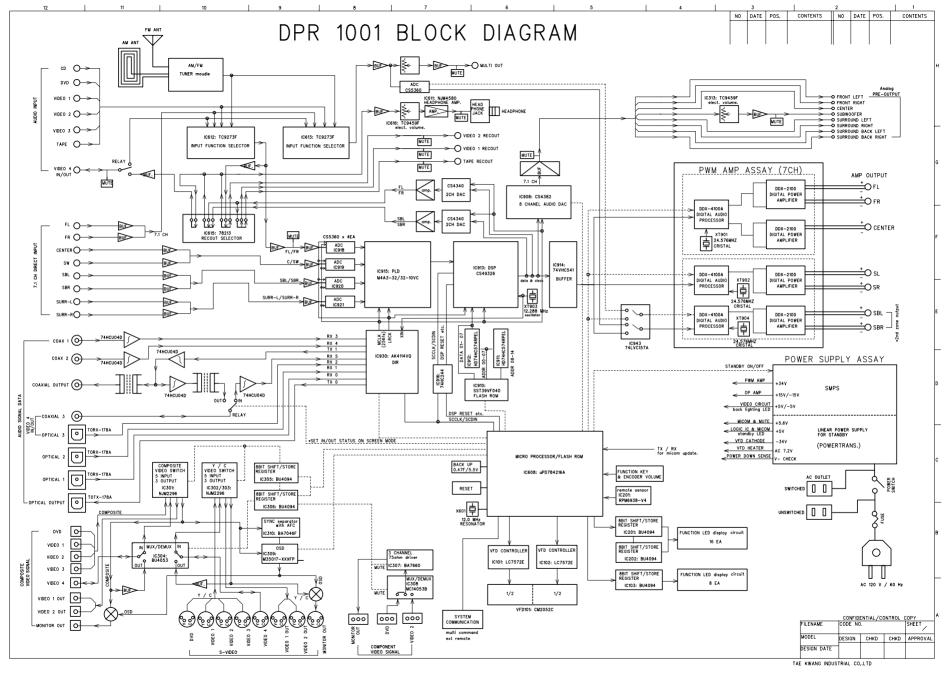
If the system is still operating incorrectly, there may have been an electronic discharge or severe AC line interference that has corrupted the memory or microprocessor.

If these steps do not solve the problem, consult an authorized Harman Kardon service center.

DPR1001 EXPLODED VIEW

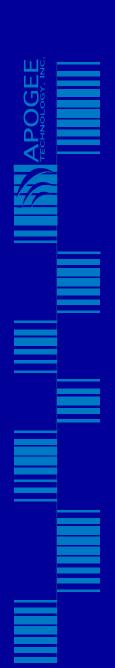


NO	DADIS NAME	CODE NO	Q,TY	DEMARK
N 1	PARTS NAME DOOR-CAP	MJAF - 04070 - 012		REMARK ABS-728
2	BRACKET-MAGNET	MPAC - 17490 - 004	1	SECC TO.8
3	DOOR-BASE	MJAF - 09670 - 013	1	ABS-720
4	WINDOW-FL	MAAF - 04090 - 012	1	PMMA 60N(HI-8)
5	SHEET-LED(A)	MAAF - 18710 - 004	1	PE SHEET
6	FILTER-FL	MAAF - 18700 - 014	1	PVC
7	BADGE-H/K	MLAG - 13850 - 034		AL(SILVER)
8	PANEL-FRONT	MJAF - 06880 - 011	1	HFA-403
9	KNOB-FUNCTION(A)	MJAF - 09690 - 013		ABS-720
10	LENS-POWER	MJAF - 18670 - 014	1	PMMA
11	GUIDE-LED(A)	MJAF - 18630 - 004		ABS
12	GUIDE-LED(B)	MJAF - 18640 - 004		ABS
13	GUIDE-REMOTE	MJAF - 18620 - 004		ABS
14	CHASSIS-BOTTOM	MPAC - 05320 - 002		SECC T 1.0
15	INSULATION-SHEET	MAAF - 18930 - 004		PVC T0.3
16	CUSHION-A	MRAG - 13050 - 004	2	FELT
17	CUSHION-SUPPORT	MRAG - 14710 - 004		EVA
18	SPRING-PLATE	MPAC - 17470 - 004		PB T0,2
19	CLAMP-WIRE	MPAC - 17730 - 004		****
20	HEATSINK-MAIN	MEAC - 05361 - 003		AL6063 T5
21	CORD-BUSH	MJAG - 00280 - 012	1	****
22	CHASSIS-BACK	MPAC - 05280 - 012	1	SECC T 0.8
23	CHASSIS-TOP	MPAC - 05330 - 012	1	VCM T0.8
24	SUPPORT	MJAG - 14740 - 004	1	****
25	TUNER-PACK	**** - **** - **		****
26	SUPPORT-PCB	MJAF - 18680 - 004		ABS
27	FOOT	MJAF - 09680 - 013		ABS
28	CUSHION-FOOT(FRONT)	MRAG - 14551 - 004		POLYURETHAN T3
29	CUSHION-FOOT(REAR)	MRAG - 14552 - 004	N.	POLYURETHAN T3
30	GUIDE-FL	MJAF - 04080 - 002	1	ABS
31	INSULATE-TUBE	MXAG - 14730 - 004	1	POLYOLEFIN T4.0
32	KNOB-FUNCTION(B)	MJAF - 09700 - 013		ABS-720
33	JOINT-STANDBY	MJAF - 18650 - 004	1	ABS
34	KNOB-SPEAKER	MJAF - 16060 - 014	1	ABS
35	LENS-OPTICAL	MAAF - 18660 - 014	2	PMMA
36	MAGNET	AXAG - 14700 - 004	1	****
37	SHEET-DOOR	MAAF - 18750 - 014	1	PVC T 0.25
38	SHEET-LED(B)	MAAF - 18720 - 004		PE
39	ASS'Y-VOLUME	AJAF - 09730 - 013		ABS+AL+RUBBER
40	CUSHION SMPS	MRAG - 14760 - 004	2	E∨A
41	SHEET-EMI	MPAC - 17690 - 004		
42	CUSHION (A)	MRAG - 14780 - 004		EVA
43	CUSHION (B)	MRAG - 14790 - 004		EVA
44	CUSHION FELT	MRAG - 14770 - 004		FELT
45	SHEET-EMI-A	MPAC - 17710 - 004	1	
46	SHEET-EMI-B	MPAC - 17720 - 004		
47	CUSHION REMOTE	MRAG - 13840 - 004		
48	CABLE TIE L80	MJAG - 04540 - 004		
A	SCREW-TAPPING	XSTB - 30080 - ZB4 XSTB - 30080 - ZY4		AK10
B	SCREW-TAPPING SCREW-TAPPING	XSTB - 30080 - ZY4 XSTF - 30080 - ZY4		AK10
D	SCREW-TAPPING SCREW-TAPPING			AK10
		XSTB - 30100 - ZY4		AK10
E F	SCREW-TAPPING SCREW-TAPPING	XSTS - 30080 - ZY4 MMTC - 15650 - 004		AK10
<u> </u>	SCREW-TAPPING	XSTB - 30100 - ZB4		AK10
H	SCREW-TAPPING	MMAC - 16403 - CR4		AK10
	SCREW-TAFFING SCREW-T/P-TOOTH	MMAC - 16403 - CR2 MMAC - 16400 - 004	10	AK10
J	SCREW-TAPPING	MMTC - 00751 - 003	7	AK10 AK10
K	SCREW-TAPPING	MMTC - 00751 - 003		AK10 AK10
	SCREW-TAPPING	MMTC - 00752 - 003		AK10 AK10
a	FRONT P.C.BOARD-1	*****	1	***
b	FRONT-P.C.BOARD-2	*****	1	***
	SMPS P.C.BOARD	******	1	***
a	PWM-DSP P.C.BOARD	*****	1	***
e	PRE-DUT P.C.BOARD	*****	1	***
f	PRE-INPUT P.C.BOARD	*****	1	***
9	DIGITAL INPUT P.C.BOARD	*****	1	*** ***
h	VIDEO P.C.BOARD	****	1	***
i	MAIN P.C.BOARD	****	1	***
			1	***
.j	POWER SWITCH P.C.BOARD	****		
j K	PHONE JACK P.C.BOARD	******	1	***
K	PHONE JACK P.C.BOARD	****	1	***



DDX Technology

- Traditional Amplifier Technology
 - Class A/B Designs
 - Analog
 - Low Efficiency
- High Efficiency Designs Emerged
 - Analog Class D Designs
 - Class G/H: Vary PS with Class A/B
- Development Goal
 - High Efficiency + Digital = DDX

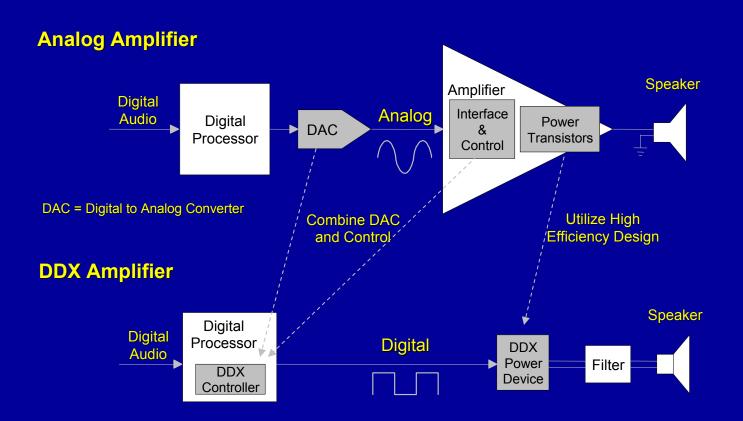


DDX The New Standard

- Patented Amplifier Design
- All-Digital
 - Direct Interface to Digital Audio
 - IC Integration
- High Efficiency
 - 3 Times Higher Efficiency
 - Reduced Heat = Smaller Size/Package
 - Power Supply Savings

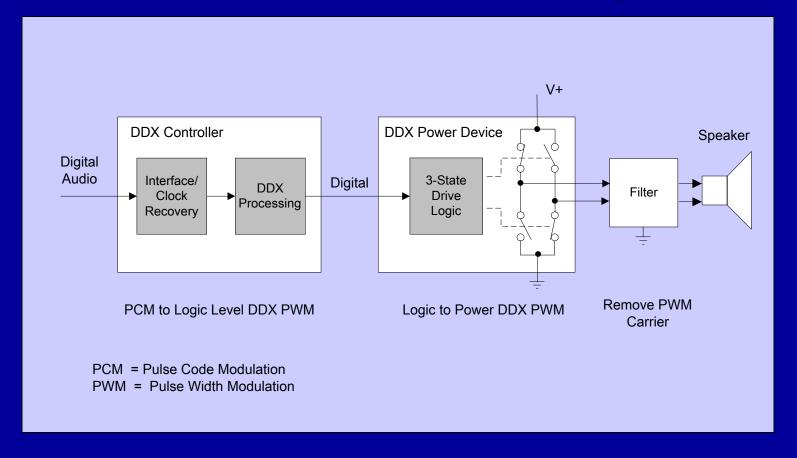
APOGEE THECHNOLOGY, INC.

DDX Digital Design



DDX Eliminates DAC and Analog Signals

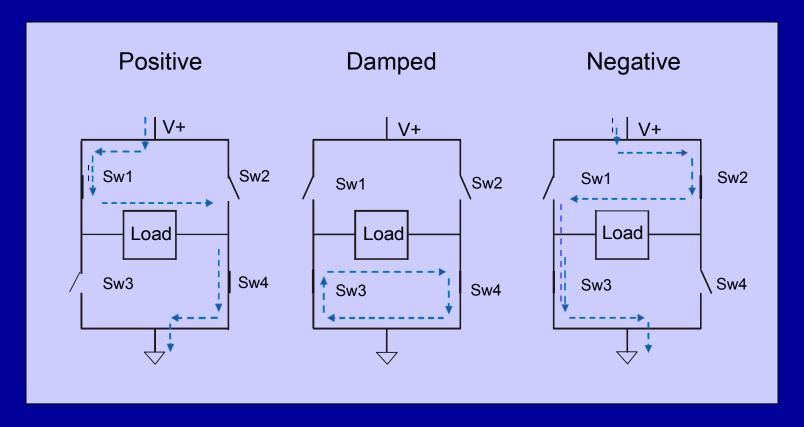
DDX Functional Diagram



DDX Digital Control Of 3-State Power Stage

APOGEE TECHNOLOGY, INC

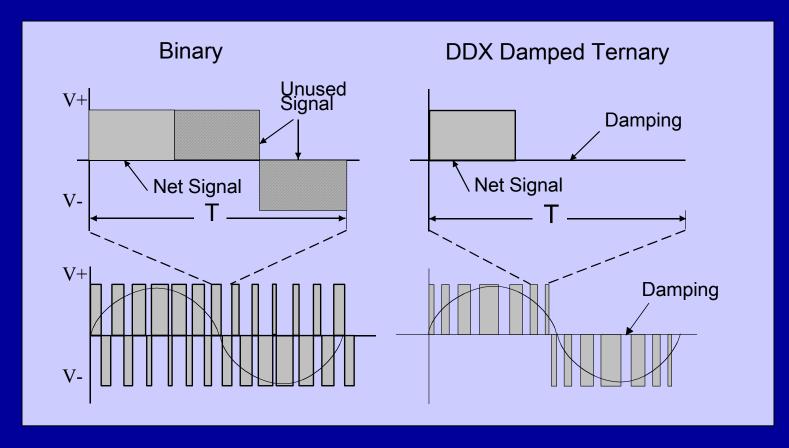
DDX Drive States



DDX Damped State Increase Efficiency and Lowers EMI Compared to Binary Designs

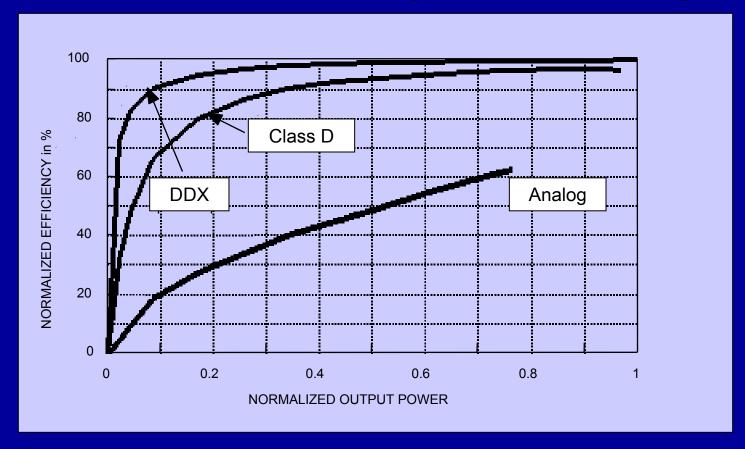
APOGEE

DDX 3-State Modulation



DDX Only Outputs a Signal When Required

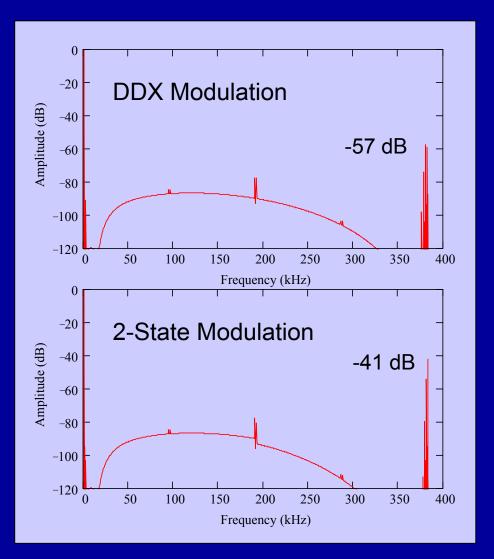
DDX Efficiency Advantage



DDX Modulation Increases Class D Efficiency



DDX EMI/RFI Advantage



Theoretical Performance

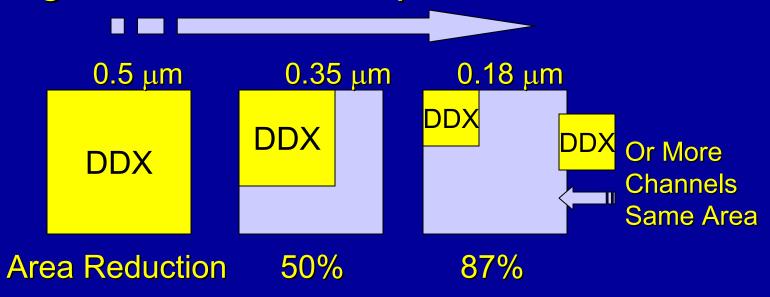
0 dB, 1.0 kHz Input
30 kHz 2nd Order LPF

DDX is 16 dB Lower Carrier Than 2-State Modulation!

APOGEE TECHNOLOGY, INC.

DDX Low Cost Integration

Digital IC Process Improvements

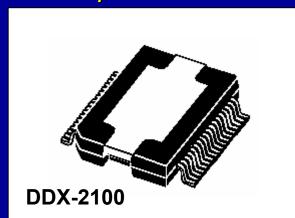


DDX Area Reduces with IC Processes
Analog Designs DO NOT Follow Same Trend



DDX-2100 Power IC

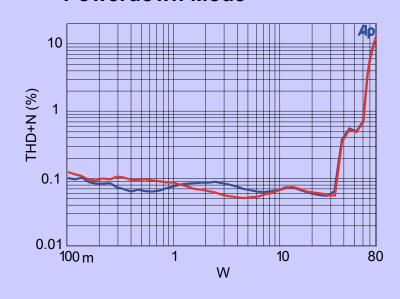
50W Stereo DDX Power IC Samples Q4'01



PowerSO36

Operation (with DDX-2000)

- Single Supply (+10V to +36V)
- Output Power
 - •2x50+ W into 8Ω
 - •1x100+ W into 4Ω
- •Efficiency 88%
- Short Circuit Protection
- Thermal Protection
- Powerdown Mode



DDX-4100 Controller

Multi-Channel Design **Providing Complete** End-to-End Digital Solution



TQFP 44, 3.3V CMOS Device

FEATURES

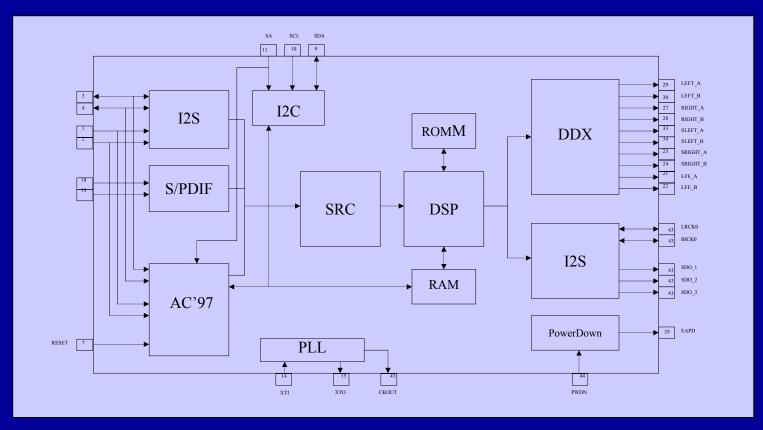
Interface/Control

- 4 Channel Serial, ACLink, S/PDIF Inputs
 - •32kHz 96kHz
- 4.1 Channel DDX Outputs
- •6 Channel Serial Output
- •12C Control

Enhanced Digital Audio Functions

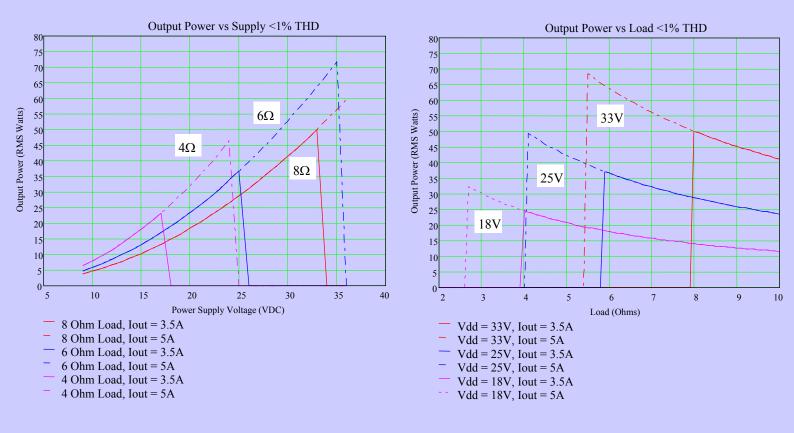
- Volume Control
- ·Bass/Treble
- Parametric EQ
- Bass Management
- Automatic Mute
- Anti Clipping

DDX-4100 Processing



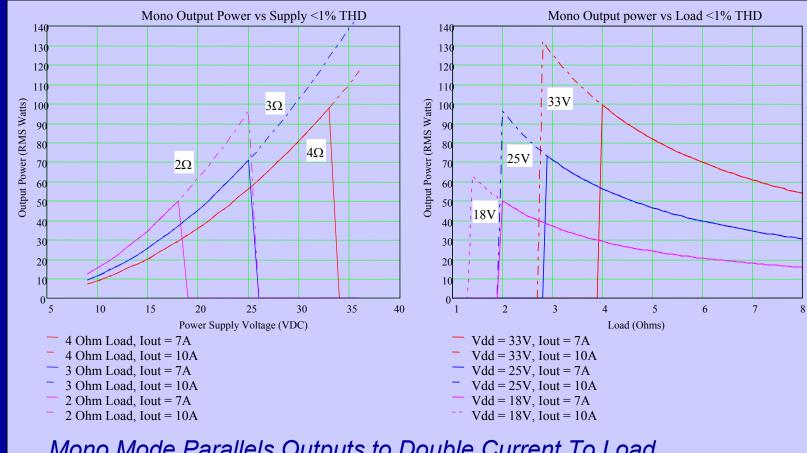
- Multiple Digital Interface Standards
- •SRC Conversion to 48 kHz for DSP Operations
- •20 Bit DSP Performs Preamplifier and EQ Functions
- •5 Channel DDX + Serial Outputs

DDX-2100 Power Output - Stereo



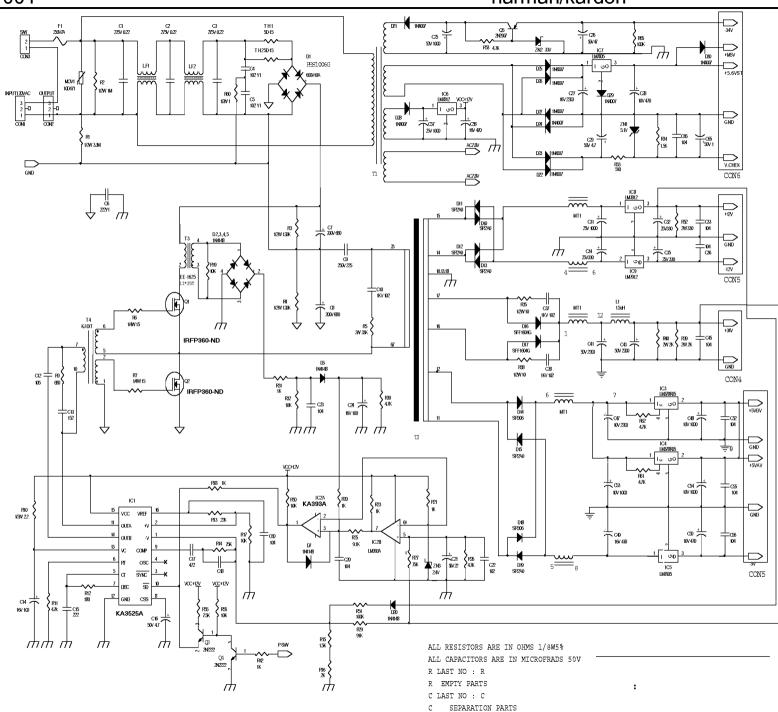
Output Power of 2x50 Watts at 33V, 8 Ω (Minimum) Power Reaches over 2x75 Watts (36V, Typical) at 10% THD

DDX-2100 Power Output - Mono



Mono Mode Parallels Outputs to Double Current To Load Up to 150 Watts Output (36V, 10%) and 100 Watts (Min) into 4 Ω

SMPS POWER SUPPLY



MODE	L NO	KJP-3011				DATA	2003.04.23
COMMO	ODITY		PART	S	I. I S T		
PART		CIRCUITS				PAGE	5
NO	0 E N0	DESCRIPTION	SPECIFICATION	QTY	LOCATION NO	MANUFACTURE	REMARK
1		PWM IC	KA3525A (DIP-16)	1	IC1	F/C	
2		COMP-IC	LM393 (DIP-8)	1	102	HITACHI,F/C	
3		REG-IC	LM378R05 (T0-220F)	2	IC3.4	F/C	
4		REG-IC	LM7805 (T0-220)	1	107	F/C	
5		REG-IC	LM7905 (TO-220)	1	IC5	F/C	
6		REG-IC	LM7812 (T0-220)	2	106.108	F/C	
7		REG-IC	LM7912 (TO-220)	1	109	F/C	
8		MOS-FET	SSH25N40, IRFP360 (T0-3P)	2	Q1.Q2	F/C.IR	
9		TRANSISTOR	KTA1273 (T0-92)	1	Q5	WOOSUK,F/C	
10		TRANSISTOR	KTN2222A (T0-92)	2	Q3.Q4	WOOSUK,F/C	
11		BRG-D10DE	PBS-1006G	1	D1	DAEBO, SHINDENGEN	
12		S/W DIODE	1N4148	7	D2.3.4.5.6.7.20	T/S,SUNG HO	
13		DIODE	1N4007	10	D21.22.23.24.25.26.27.28.29.30	T/S,SUNG HO	
14		SCHOTTKY-DIODE	SR-2A0	6	D10.11.12.13.15.19	T/S,SUNG HO	
15		SCHOTTKY-DIODE	SR306	2	D18.14	T/S,SUNG HO	
16		FR-DIODE	SFF1604G	2	D16.D17	T/S,SUNG HO	
17		UF-D100E	UF4004	4	D10.11.12.18	T/S,SUNG HO	
18		ZN-D100E	1N4370 (0.5W 2.4V)	1	ZN3	T/S,SUNG HO	
19		ZN-DIODE	1N4750 (1W 27V)	1	ZN2	T/S,SUNG HO	
20		ZN-D100E	1N5231 (0.5W 5.1V)	1	ZN1	T/S,SUNG HO	
21		AL-CAPACITOR	200V 680uF (25¢X 50) 85℃	2	C7.8	SAMYOUNG, SAMWHA	
22		AL-CAPACITOR	50V 2200uF (16¢X 36) 105℃	2	C41.43.	SAMYOUNG, SAMWHA	
23		AL-CAPACITOR	50V 1000uF (12.5φX 25) 85℃	1	C25	SAMYOUNG, SAMWHA	
24		AL-CAPACITOR	50V 47uF (6.3φX 11) 85℃	1	C26	SAMYOUNG, SAMWHA	
25		AL-CAPACITOR	50V 22uF (6.3¢X 11) 85℃	1	C21	SAMYOUNG, SAMWHA	
26		AL-CAPACITOR	50V 4.7uF (6.3φX 11) 85℃	2	C16.C29	SAMYOUNG, SAMWHA	
27		AL-CAPACITOR	50V 1uF (6.3φX 11) 85℃	1	C65	SAMYOUNG, SAMWHA	
28		AL-CAPACITOR	25V 1000uF (12.5¢X 25) 85℃	1	C31.57	SAMYOUNG, SAMWHA	
29		AL-CAPACITOR	25V 330uF (8¢X 11) 85℃	3	C32.34.35.	SAMYOUNG, SAMWHA	
30		AL-CAPACITOR	16V 2200uF (10¢X 21) 85℃	1	C27	SAMYOUNG, SAMWHA	
31		AL-CAPACITOR	16V 470uF (8¢X 11) 85°C	2	C49.58	SAMYOUNG, SAMWHA	
32		AL-CAPACITOR	16V 100uF (6.3¢X 11) 85℃	2	C14.24	SAMYOUNG, SAMWHA	
33		AL-CAPACITOR	10V/16V 2200uF (10¢X 21) 85℃	1	C47	SAMYOUNG, SAMWHA	
34		AL-CAPACITOR	10V/16V 1000uF (10фX 16) 85℃	3	C48.53.54	SAMYOUNG, SAMWHA	
35		AL-CAPACITOR	10V/16V 470uF (6.3¢X 11) 85℃	2	C28.50	SAMYOUNG, SAMWHA	
36		MONO-CAP	50V 104	10	C20.23.33.36.45.52.55.56.60.66	PILK0	
37		MY-CAP	50V 222	1	C15	PILKO,SUNIL	
38		MY-CAP	50V 472	1	C17	PILKO,SUNIL	
39		MY-CAP	50V 102	1	C22	SUNIL, SEORYONG	
40		MY-CAP	50V 152	1	C13	SUNIL, SEORYONG	

43	Y-CAP	222 Y1	1	C6	DAEMYUNG	
44	X-CAP	224 275V	3	C1.2.3	SUNIL	
45	MF-CAP	250V 225	1	C9	SUNIL	
46	MF-CAP	DC63V 105	1	C12	PILKO,SUNIL	
47	CF- RESISTOR	2W 5% 33K	1	R5	SORAK, HANBU	
48	CF- RESISTOR	2W 5% 2K	2	R39.40	SORAK, HANBU	
49	CF- RESISTOR	2W 5% 330	1	R52	SORAK, HANBU	
50	CF- RESISTOR	1W 5% 3.3K	1	R65	SORAK, HANBU	
51	CF- RESISTOR	1/2W 5% 3.3M	1	R1	PILK0	
52	CF- RESISTOR	1/2W 5% 1M	1	R2	SORAK, HANBU	
53	CF- RESISTOR	1/2W 5% 120K	2	R3.4	SORAK, HANBU	
54	CF- RESISTOR	1/2W 5% 10	2	R35.38	SORAK, HANBU	
55	CF- RESISTOR	1/2W 5% 2.2	1	R10	SORAK, HANBU	
56	CF- RESISTOR	1/2W 5% 1	1	R60	SORAK, HANBU	
57	CF- RESISTOR	1/4W 5% 15	2	R6.7	SORAK, HANBU	
58	CF- RESISTOR	1/8W 5% 100K	1	R65	SORAK, HANBU	
59	CF- RESISTOR	1/8W 5% 91K	1	R29	SORAK, HANBU	
60	CF- RESISTOR	1/8W 5% 75K	2	R27.14	SORAK, HANBU	
61	CF- RESISTOR	1/8W 5% 22K	1	R13	SORAK, HANBU	
62	CF- RESISTOR	1/8W 5% 10K	4	R17.19.32.56	SORAK, HANBU	
63	CF- RESISTOR	1/8W 5% 9.1K	1	R25	SORAK, HANBU	
64	CF- RESISTOR	1/8W 5% 7.5K	1	R55	SORAK, HANBU	
65	CF- RESISTOR	1/8W 5% 4.7K	6	R11.26.30.50.61.62	SORAK, HANBU	
66	CF- RESISTOR	1/8W 5% 2.2K	1	R53	SORAK, HANBU	
67	CF- RESISTOR	1/8W 5% 2K	1	R16.31	SORAK, HANBU	
68	CF- RESISTOR	1/8W 5% 1.5K	2	R15.34	SORAK, HANBU	
69	CF- RESISTOR	1/8W 5% 1K	5	R18.20.21.23.42	SORAK, HANBU	
70	MF- RESISTOR	1/8W 5% 680	1	R9	SORAK, HANBU	
71	MF- RESISTOR	1/8W 5% 510	1	R33	SORAK, HANBU	
72	MF- RESISTOR	1/8W 5% 180	1	R12	SORAK, HANBU	
73	LINEAR TRANS	48mm	1	T1	CHUN SAMNG	
74	DRIVE TRANS	EE1625(V)10PIN	1	T4	SAM HUNG	
75	CURRENT SENSE TRANS	IRON 13¢	1	Т3	SAM HUNG	
76	LINE FILTOR	10mH MIN 0R25/15/12	2	LF1.2	SAM HUNG	
77	MULTI COIL	COOLMU 33 PHI	1	MT 1	SAM HUNG	
78	CHOKE COIL	OB 6*25 MIN 1.5uH	1	L1	SAM HUNG	
79	MAIN TRANS	EER4220(18PIN) MIN 2.7mH	1	T2	SAM HUNG	
80	MOV	10D471K	1	MOV1	SAM KYOUNG	
81	THERMISTOR	NTC 5D-15	2	TH1.2	SAM KYOUNG	
82	FUSE	5X20 250V 7A UL용,21806.3	1	F1	SAMJU, DONGWOO	
83	HEAT SINK	· · · · · · · · · · · · · · · · · · ·	2	HS1.2	YOUNGKWANG, M&T,	KYUNGWON
84	HEAT SINK		1	HS3	YOUNGKWANG	
85	HEAT SINK		1	HS4	YOUNGKWANG	
86	JUMP WIRE	5mm	5	J2.3.5.6.11		

87	JUMP WIRE	6mm	3	J7.9.10		
88	JUMP WIRE	7mm	1	J4		
89	JUMP WIRE	10mm	2	J8.15		
90	JUMP WIRE	12mm	1	J12		
91	JUMP WIRE	15mm	1	J1		
92	FUSE CLIP		2		SAMJU,DONGWOO	
93	PCB	CM-1	1		WON HEUNG	
94	CONNECTOR	YW396-NNV (4-PIN)	1	CON4	YUN HO,HA RIM	
95	CONNECTOR	YW396-NNV (3-PIN)	3	CON1.2.3	YUN HO,HA RIM	
96	CONNECTOR	5267-09-01 (2.5mm)	1	CON6	YUN HO,HA RIM	
97	CONNECTOR	5267-08-01 (2.5mm)	1	CON5	YUN HO,HA RIM	
98	SCREW	M3*10	10			
99	SILICONE PAD RUBBE	24*19	2		M&T	

1. DESCRIPTION.

This document defines the functional requirement of KJP-3011 Power Supply.

This power supply is specially designed for AVD

This unit is intended to operate with indoor AC 120V voltage, KJP- 3011

and rated output is :+ 34/7.2A, +12V/150mA, -12V/70mA, +5V(AV) /500mA,

+5V(DV)/1A, -5V/100mA

VFD: -34V/40mA, FL± (7.8V)/200mA,.

STAND-BY: 5.6V/50mA, M+5V/60mA

2. SCORE

This specification is intented to be used as an acceptance of electrical and mechanical characteristics for KJP-3011

3. REFERENCE

3-1. RELIABILITY TEST:

4. ELECTRICAL CHARACTERISTICS

- 4-1. AC INPUT CHARACTERISTICS
- 4-1-1. AC Input Rated Voltage: 120 Vac
- 4-1-2. AC Input operating Voltage: 110 ~ 130 Vac
- 4-1-3. AC Input Current: 120V / 4.3A,
- 4-1-4. Input Frequency: 47 ~ 63 Hz
- 4-1-5. Input Inrush Current: 50A max at 120 Vac

- 4-1-5-1. Input inrush current is measured with 120Vac input and output MAX.
- 4-1-5-2. Input inrush current is measured under condition of cold start.
- 4-1-6. Efficiency: 70 % minimum
- 4-1-6-1. Efficiency is measured with 120Vac input and output max.
- 4-1-7. Input On/Off cycle: 1 second minimum
- 4-2. DC OUTPUT CHARACTERISTICS
- 4-2-1. DC Output Voltage
- 4-2-1-1. Output voltage regulation limit:

OUTPUT VOLTAGE		OUTPUT	TOLERANCE	RIPPLE & NOISE		
VOLIMOL	MIN	TYPE	MAX	PEAK		IVOIOL
+34V	0A		7.2A		±10%	150mV
+12V		150mA			±10%	70mV
-12V		70mA			±10%	50mV
+5V(AV)		500mA			±5%	50mV
+5V(DV)		1A			±5%	50mV
-5V		100mA			±5%	50mV
ST(+5.6)		50mA			±5%	50mV
M+5V		60mA			±10%	150mV
-34		40mA			±10%	150mV
FL±7.8V		200mA			±10%	

- 4-2-1-2. The unit shall meet voltage regulation limit under all input voltage range.
- 4-2-1-3. On/Off Control

High(3.5 ~ 5V) Main on.

Low or Open(0V) Main off..

- 4-2-2. Ripple and Noise
- 4-2-2-1. Ripple and noise shall be measured at the end of output and with a 47uF EL-Capacitor and a 0.1uF ceramic capacitor between output to ground.
- 4-2-2-2. Ripple and noise shall be measured with 20MHz bandwidth.

- 4-3. ABNORMAL CONDITION AND REQUIRED RESPONSE
- 4-3-1. Output Short Circuit Protection
- 4-3-1-1. On the output, Application of a short-circuit to ground shall not be damaged to the power supply.
- 4-3-1-2. When short problem is occurred, Hiccup or Fold back

 After removing of short, the power supply will be auto-recovered
- 4-3-2. Min Load Operation.
- 4-3-2-1. The power supply shall not be damaged by on load operation.
- 4-3-2-2. The power supply does not required to maintain output voltage within regulation limit.
- 4-3-3. Overload Protection
- 4-3-3-1. Input: AC 120V

Output: 120% Minimum

- 4-4. Safety Agency and Regulatory
- 4-4-1. Safety Agency
- 4-4-1-1. Safety: UL.CSA.Meete
- 4-4-2 HI-POT and Insulation Resistance
- 4-4-2-1. Dielectric Withstanding Voltage

Primary to Secondary: 2.5K Vac, 1Minite.

For production test procedure, the duration is 1 sec.

MODEL NO: KJP-3011

- 4-4-2-2. Hi-pot test is performed with minimum 10mA cut-off current.
- 4-4-2-3. Insulation resistance: MIN 100M (Primary to Secondary)
- 4-4-3. EMI
- 4-3-3-1. FCC class B. Meete
- 4-5. Environmental Requirements
- 4-5-1. Operating Temperature: 0 to 40
- 4-5-2. Storage Temperature: -40 to 85
- 4-5-3. Operating Humidity: 20 to 80% RH
- 4-5-4. Storage Humidity: 10 to 90% RH

4-5-5 ALTITUDE

Operating: 10,000 ft

Storage: 50,000ft

5. MEAN TIME BETWEEN FAILURES(MTBF)

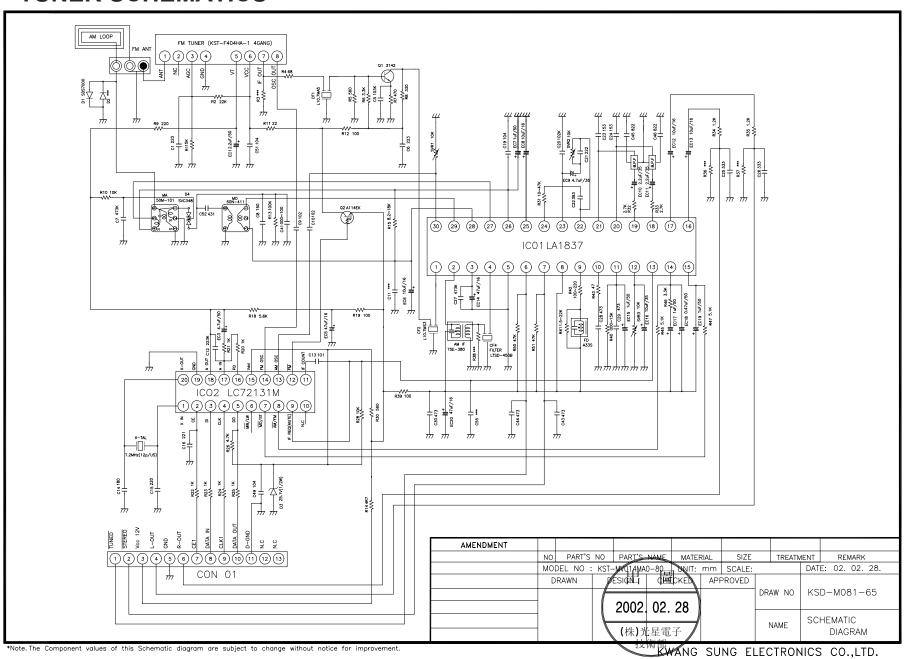
50,000 hours (full load and 25 ambient conditions)

6. BURN-IN

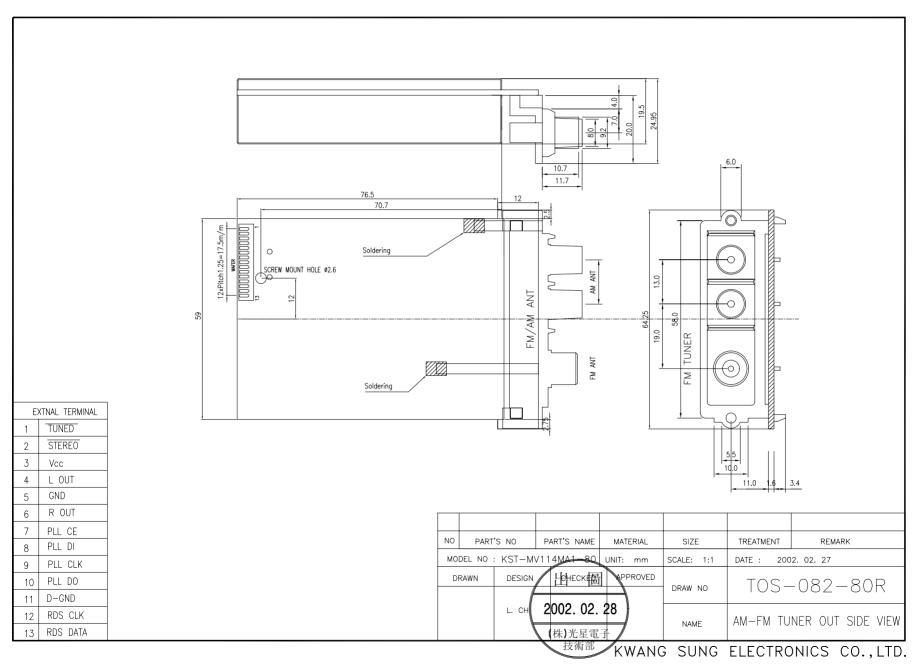
TEST CONDITION

4 hours referance (@70% Load min., 40 , 120Vrms)

TUNER SCHEMATICS



TUNER



1. APPLI CATI ON

This specification cover the tuner to be used for AM+FM broadcast reception, which AM+FM Front End with Detector, MPX.

2. APPENDED DOCUMENTS

2-1. Dimensions and terminal connection.

Refer to the attached drawing No. (TOS - 082 - 80R)

2-2. Schematic diagram

As showin the attached drawing No. (KSD - M081 - 65)

3. RECEI VI NG METHOD

AMHFM section is designed super heterodyne receiving circuit with RF.

Amp (As shown in the attached drawings)

4. ELECTRI CAL SPECI FI CATI ON & CHARACTERI STI CS

4-1. 日 ectrical specification

NO	I TEMS	SPECI FI CATI ON					
NO.	I I 🗆 Wb	M W	F M				
4 -1 -1	Local OSC	Above the receiving Frequency					
4 -1 -2	Frequency cover range	520 ~ 1720kHz	87.5 ~ 108.0MHz				
4 -1 -3	Intermediate Frequency	450 kHz	10.7 MHz				
4 -1 -4	Standard supply voltage	12 +/ -0.5V					
4 -1 -5	Current drain	80 +/ -/	20m/A				
4 -1 -6	FM Antenna impedance	75 ohm un	bal ance				
4 -1 -7	AM Loop Ant enna i nduct ance	15uH(S0146	BL -101)				

4-2. PLL Select or (LC72131).

NQ.	I TEM6	ICPINNO	
4 -2 -1	FM	8	H gh
4 -2 -2	AM	8	LOW
4 -2 -3	MV	6	LOW
4 -2 -4	LW	6	H gh
4 -2 -5	MO	7	LOW
4 -2 -6	গ্ৰ	7	H gh
4 -2 -7	IFReg⊲nute>	9	H gh
4 -2 -8	FM	12	LOW

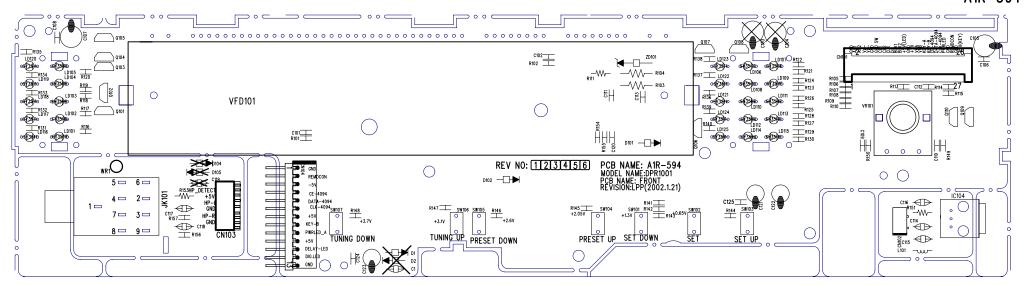
4-3	. ELECTRI CAL CHARA	CTERISTICS (MW)	ı	ı		ı			Γ
NO	TEST ITEMS	TEST CONDITION	T. P.	T. L.	MOD.	SPE	EO FI CA	TI ON	UN T
	TEST TTEWS		kHz	dBu	%	MIN	TYP	MAX	UNI
1	FREQUENCY RANGE	LOW					520		kHz
		нон					1720		KIZ
2	IF FREQUENCY					448	450	452	kHz
			600						
3	USABLE SENS.	at S/N⊨20dB	1000		30		55	63	dBu
			1400						
			600						
4	GAIN BALANCE	at usable sens.	1000		30		5	10	dB
			1400						
5	I MAGE REJECTION	at usable sens.	1000		30	30	33		dB
6	IF REJECTION	at usable sens.	1000		30	40	45	1	dB
7	1 SIGNAL	± 10k ⊢ ż	990		30	20	25		dB
	SELECTI VI TY	± TOKP2	1010		30	20	20		ив
0	DI STORTI ON		1000	74	30		1.5	3. 0	0/
8	DSIGNO		1000	100	80		3. 0	5.0	%
9	S/ N RATI O		1000	80	30	40	45	1	dB
10	AGC EFFECT	at OUTPUT - 10dB	1000	100	30	45	50	1	dB
11	TWEET		900	74	30			10	%
12	AF CUTPUT LEVEL	47kΩ LOAD	1000	74	30	115	165	215	m\/
			600						
13	AUTO STOP LEVEL		1000		30	45	55	65	dBu
			1400						
	AUDI O RESPONSE	Low	4000	_,			60	100	Hz
14	(400Hz=0dB)	-6dB Point Hgh	1000	74	30	1.8	2.0		kHz

4-4. ELECTRI CAL CHARACTERI STI CS (FM)

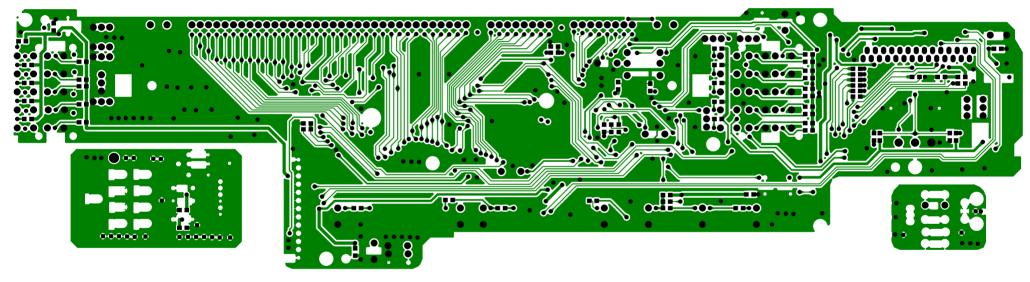
1									
NO	TEST ITEMS	TEST CONDITION	T. P.	T. L.	MOD.	SPE	EG FI CA	TI ON	WT
10	TEST TIEWS	1231 60101101	MHz	dBu	kHz	MIN	TYP	MAX	u i
1	FREQUENCY RANGE	LOW					87. 5		MHz
		н өн			-		108. 0		IVILE
2	IF FREQUENCY		1	1	1	10.5	10.7	10.9	MHz
			90.0						
3	USABLE SENS.	at S/N=30dB	98. 0		75		6	12	dBu
			106. 0						
			90.0						
4	GAI N BALANCE	at usable sens.	98. 0		75		3	5	dB
			106. 0						
5	IF REJECTION	at usable sens.	90.0	-	75	70	80	1	dB
6	I MAGE REJECTI ON	at usable sens.	106.0	1	75	70	80	1	dB
7	S/ N RATI O		98.0	60	75	60	65	1	dB
8	AM SUPPRESSI ON	at AM 30% 1kHz	98.0	60	75	40	50	1	dB
9	DI STORTI ON	MONO	98. 0	60	75		0.5	0.8	%
10	O/ER LOAD	100	00.0	400	75		4.0	0.0	0/
	d storti on	MONO	98. 0	120	75	-	1.0	2.0	%
			90.0						
11	AUTO STOP LEVEL		98. 0		75	18	23	28	dBu
			106. 0						
	STEREO SEPARATI ON	100 Hz				30	35		
12	MAIN 90%	1 kHz	98.0	60		35	40		dB
	PILOT 10%	10 kHż				25	30		
12	AUDI O RESPONSE	De-emphasis/75us Low	00.0	60	75			50	Hz
13	(1kHz=0dB)	(- 3dB) H gh	98. 0	60	75	12	14	1	kHz
14	AF OUTPUT LEVEL	47kΩ LOAD	98. 0	60	75	470	600	730	m\/

PCB DRAWINGS

DPR-1001 VFD PCB A1R-594

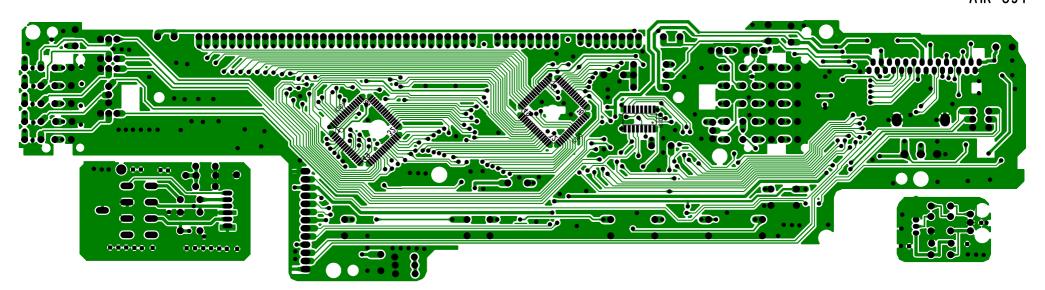


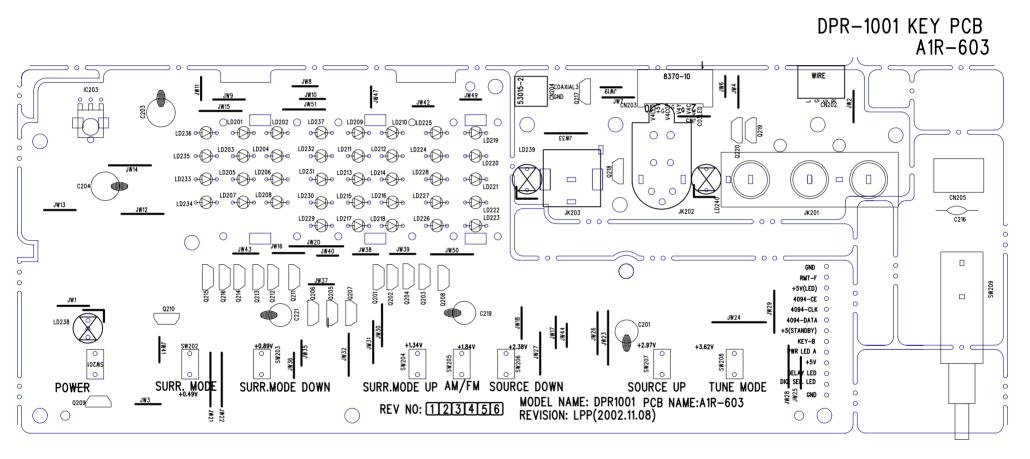
DPR-1001 VFD PCB TOP A1R-594



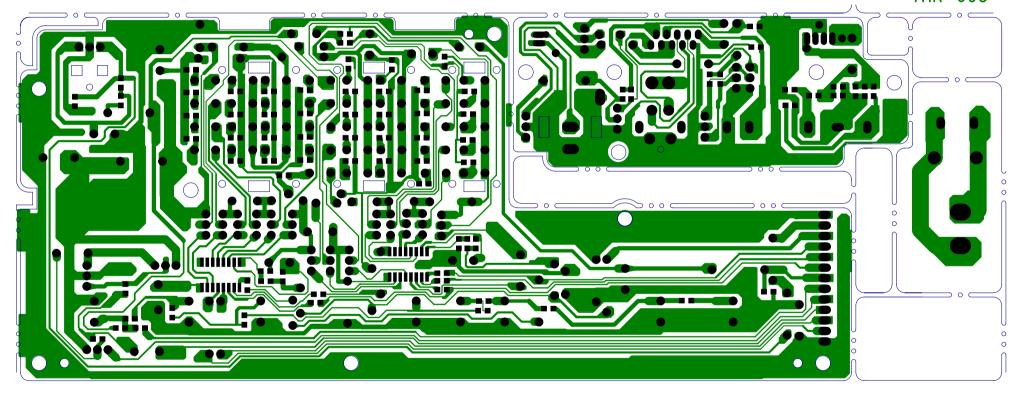
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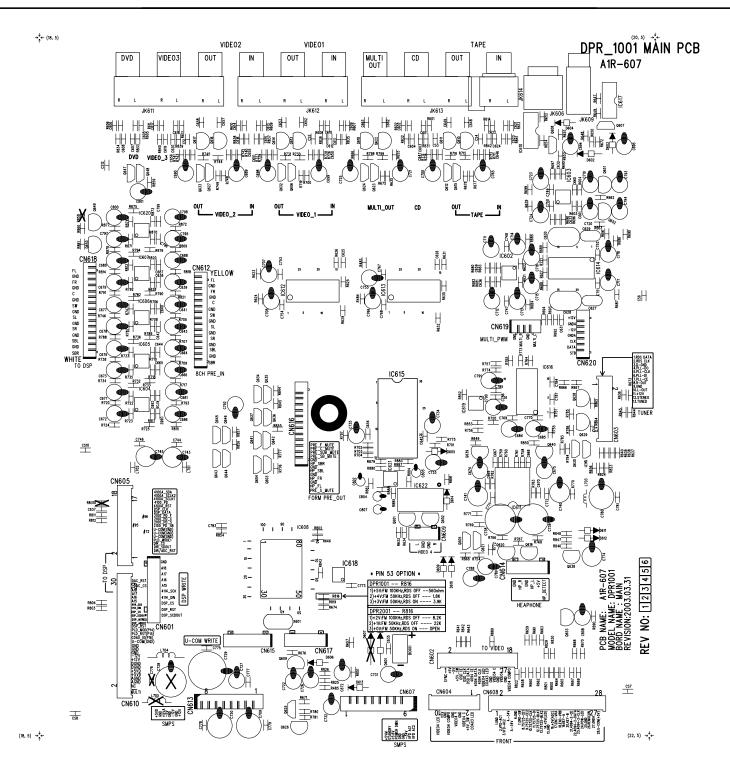
DPR-1001 VFD PCB BOT A1R-594



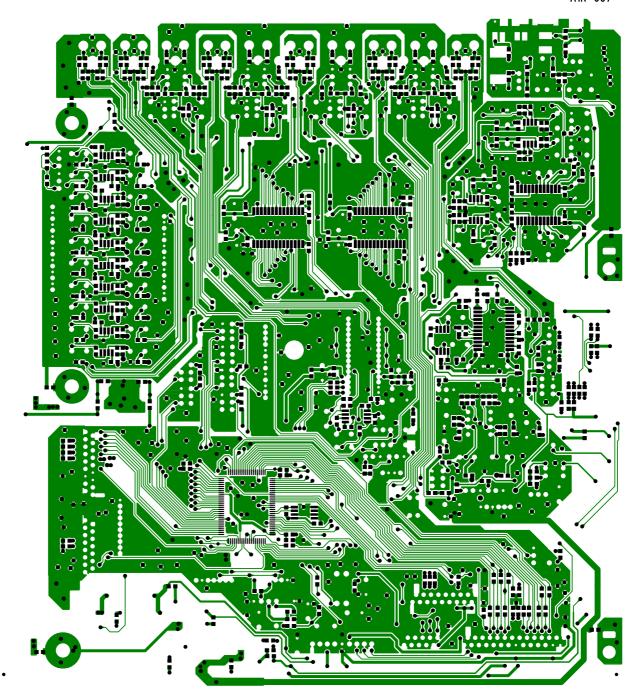


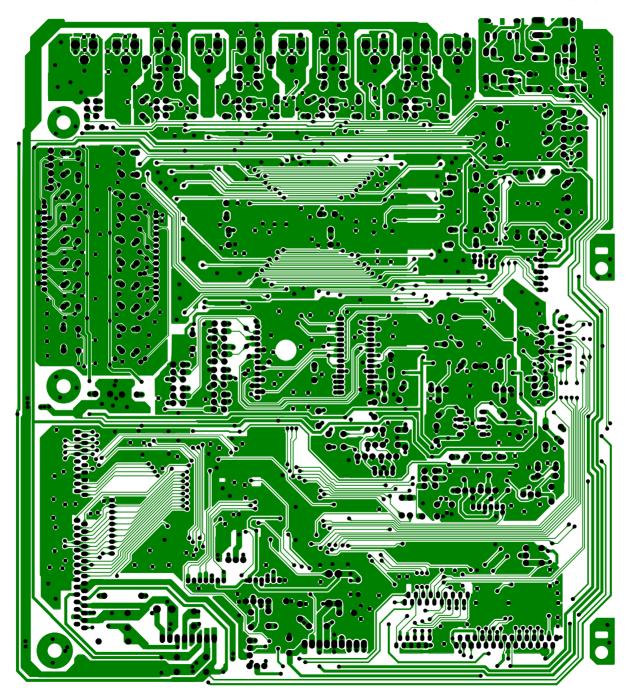
DPR-1001 KEY PCB A1R-603



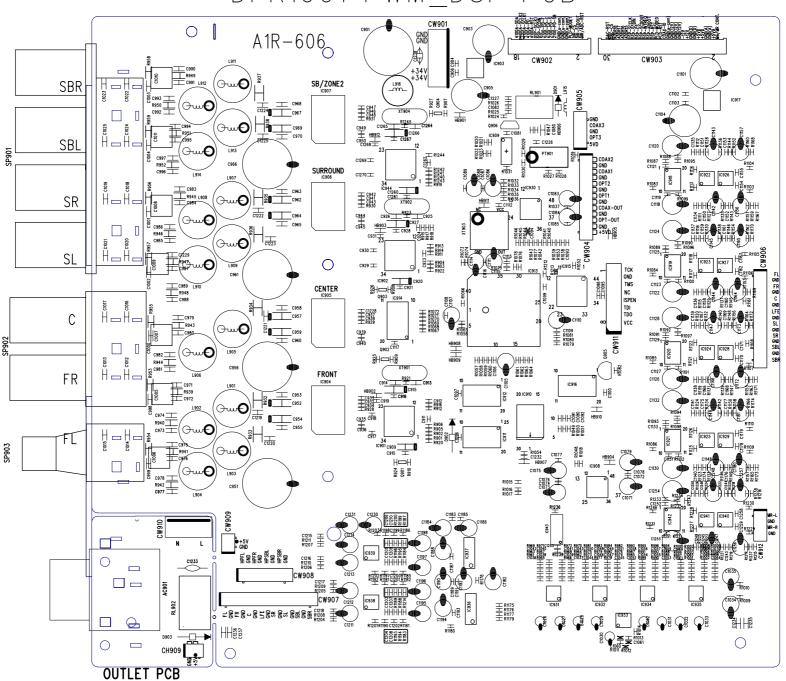


DPR_1001 MAIN PCB TOP A1R-607

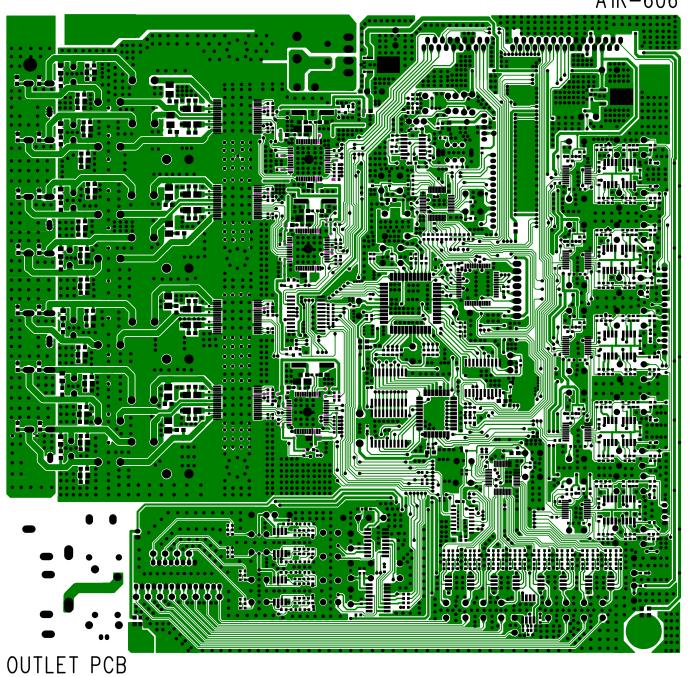




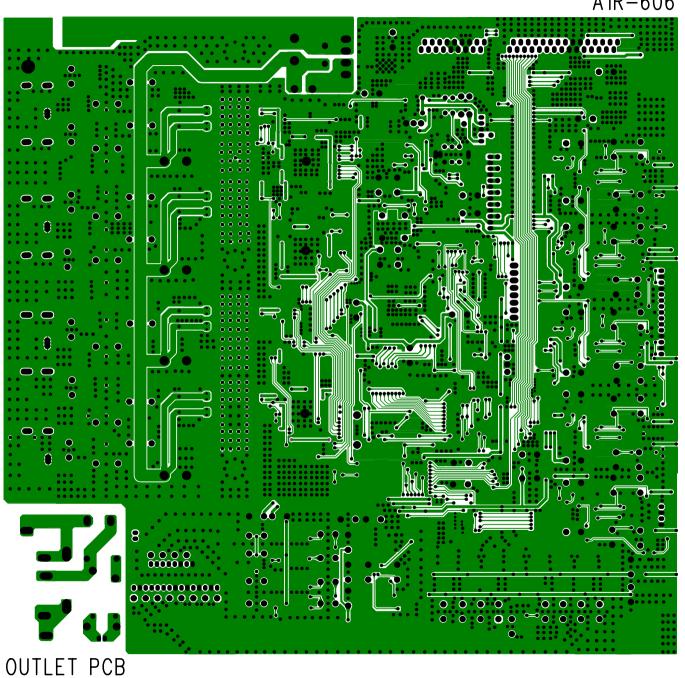
DPR1001 PWM DSP PCB

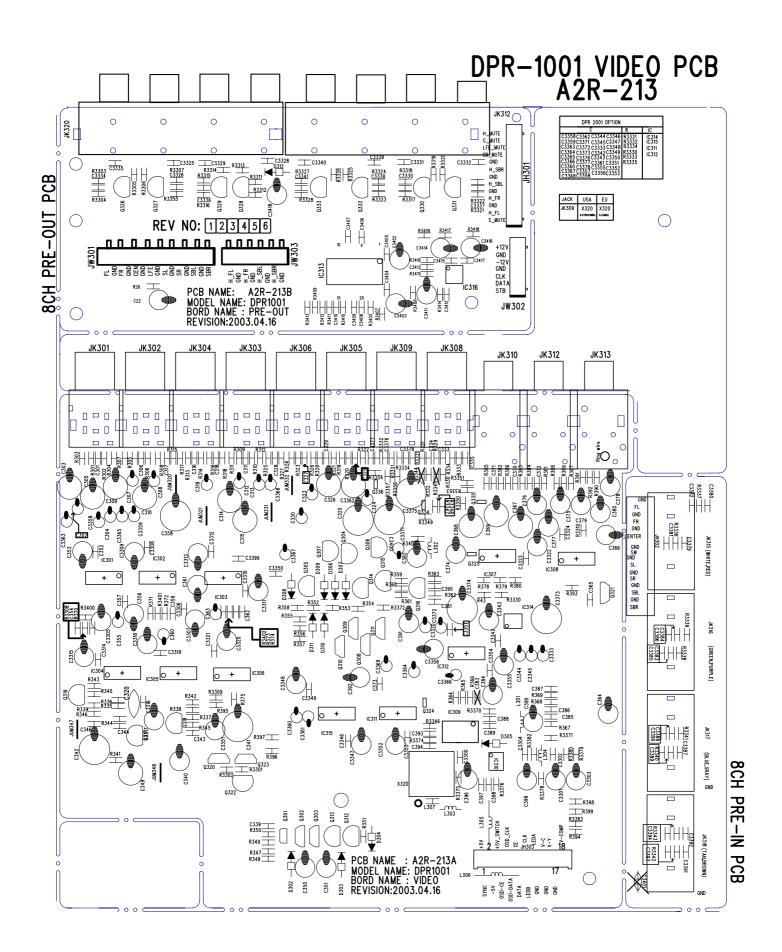


DPR1001 PWM_DSP TOP A1R-606

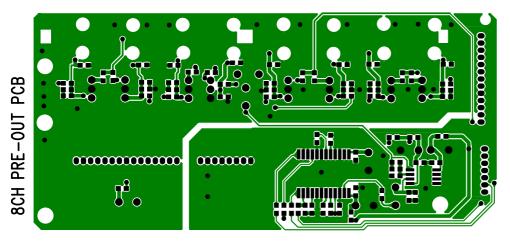


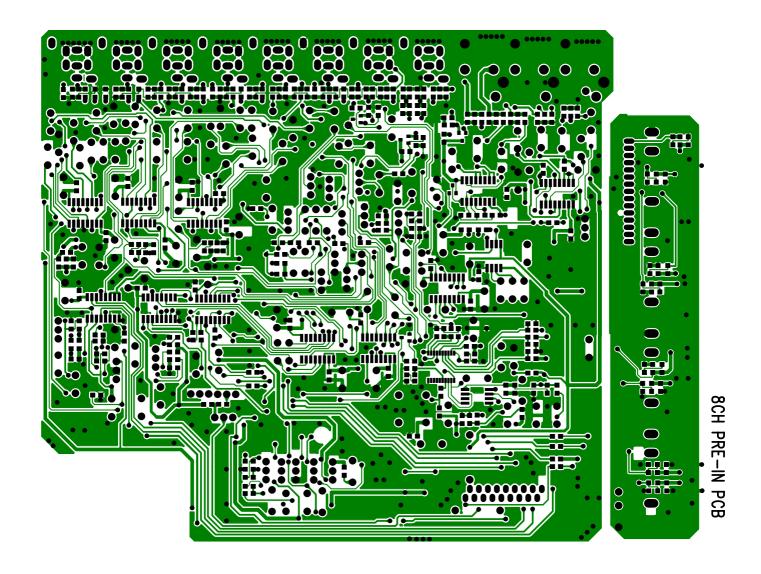
DPR1001 PWM_DSP BOT A1R-606



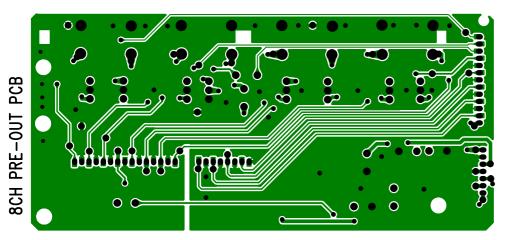


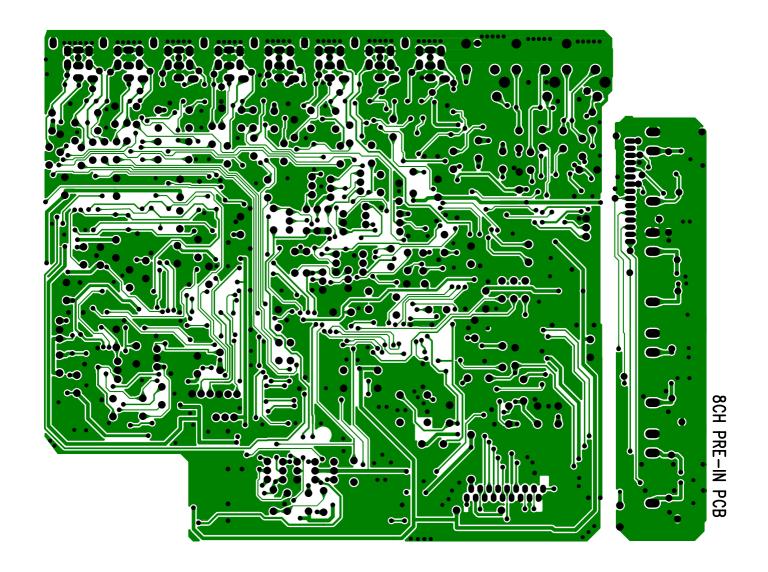
DPR-1001 VIDEO PCB TOP A2R-213





DPR-1001 VIDEO PCB BOT A2R-213

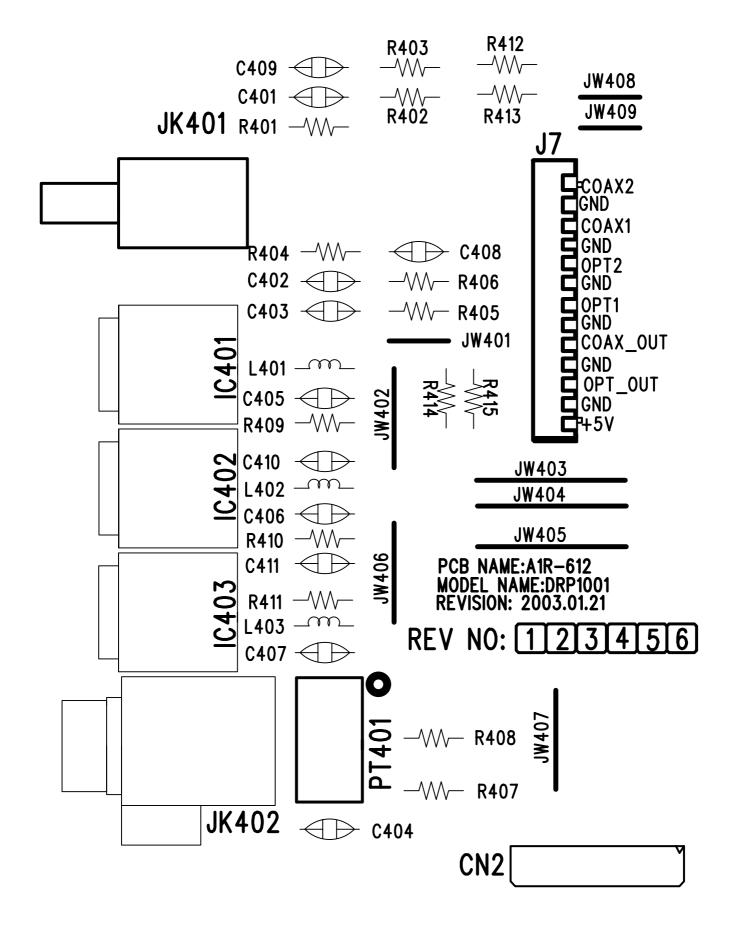




PCB DRAWINGS

6. Digital Input

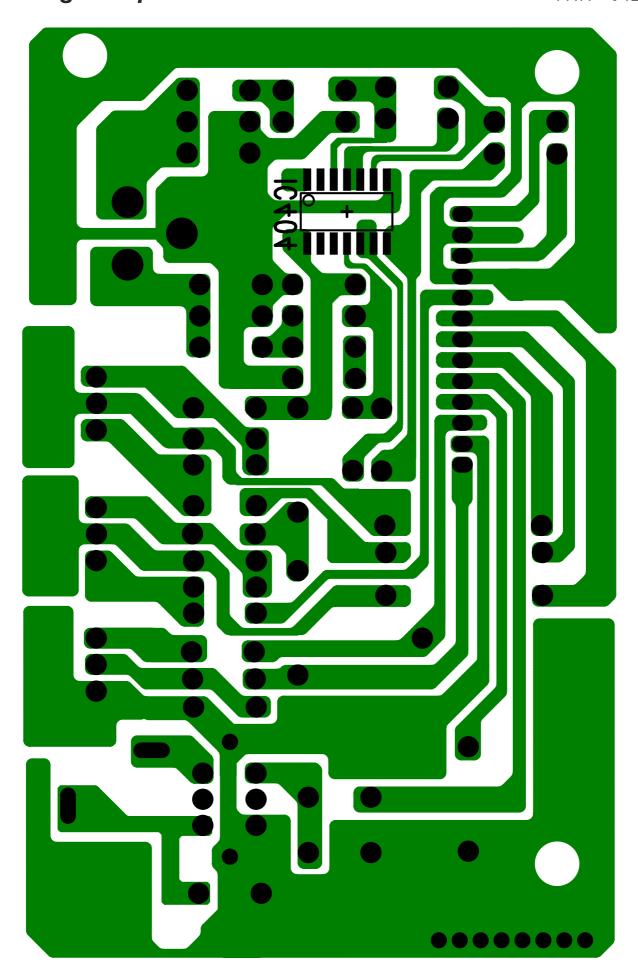
DPR-1001 DIGITAL INPUT PCB A1R-612



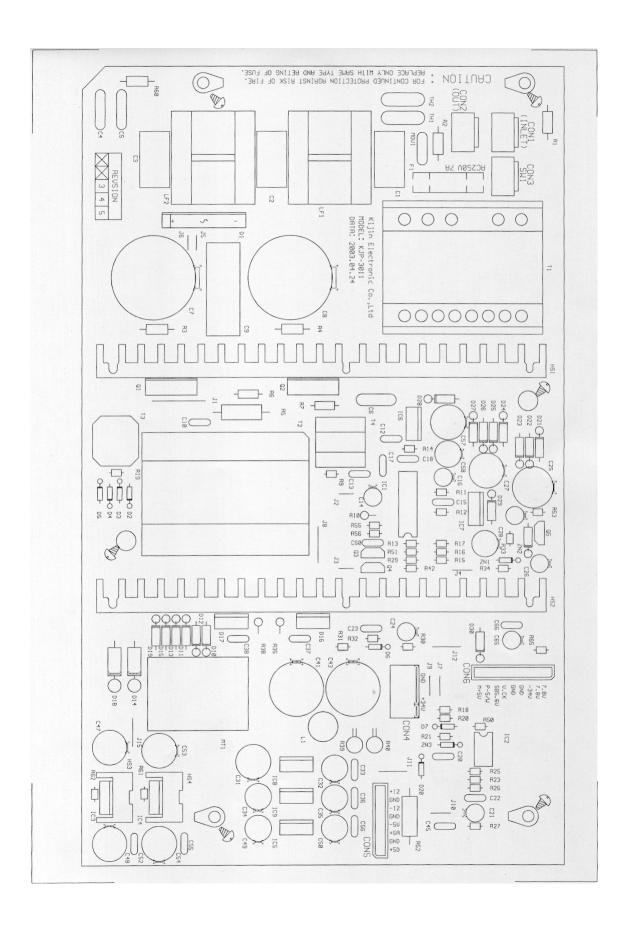
PCB DRAWINGS

6. Digital Input

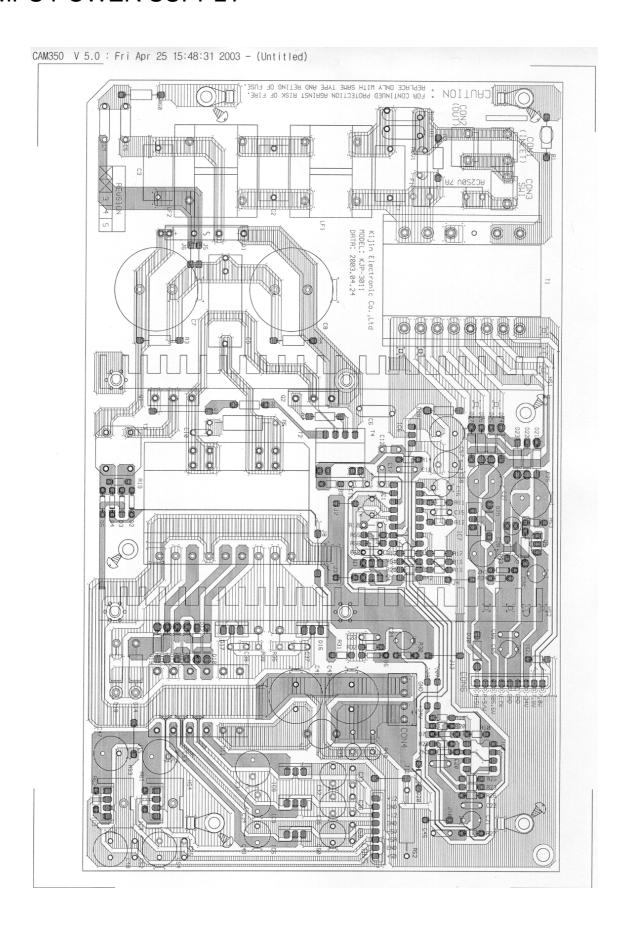
DPR-1001 DIGITAL INPUT PCB A1R-612



SMPS POWER SUPPLY



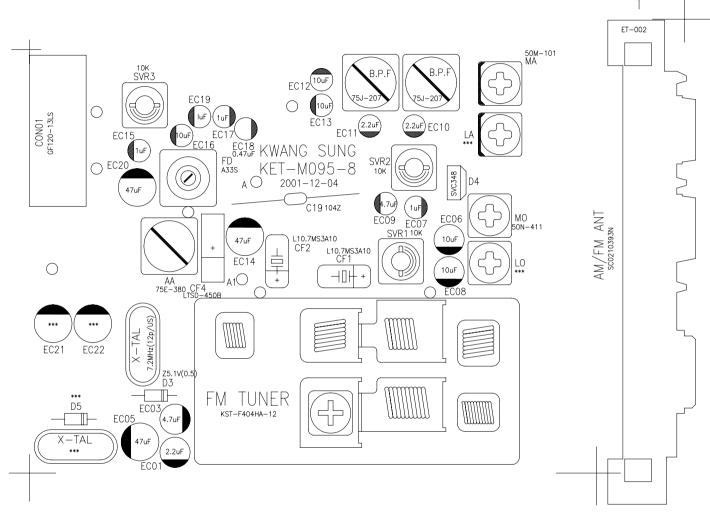
SMPS POWER SUPPLY



PCB DRAWINGS

KWANG SUNG ELECTRONICS CO., LTD.

8. Tuner



SC-031B-6



MODEL	KST-MV014MA0-80	SCALE	1 : 1
DRAWN NO	KETM095-8	VIEW	TOP VIEW

: Ø1.0 : Ø1.1

SAMLE: 10 PCS XPC 1.6t 2003. 01. 22

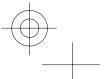
: Ø0.8 : Ø0.9 : Ø0.95

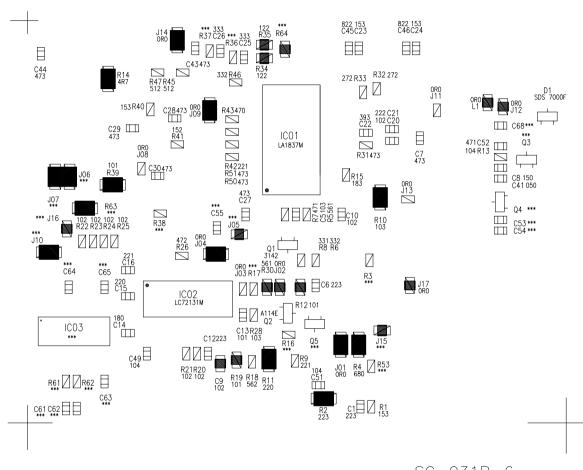
: Ø1.2 : Ø0.8

PCB DRAWINGS

8. Tuner

KWANG SUNG ELECTRONICS CO., LTD.





SC-031B-6



MODEL	KST-MV014MA0-80	SCALE	1 : 1
DRAWN NO	KETM095-8	VIEW	TOP VIEW

SAMLE : 10 PCS

XPC 1.6t

2003. 01. 22

: Ø0.8 : Ø0.9

: Ø0.95

: Ø1.0 : Ø1.1

: Ø1.2

: Ø0.8

MECHANICAL PART LIST

DPR 1001 MECKANICAL PART LIST

וט	IN TOOT WILCH	ANICALIANI	LIOT		
	A2AR L2000 A1A		BLOCK-MECHA		
NO		DAGT NAME			0.) T./
	PART CODE	PART NAME	DESCRIPTION	UNIT	Q`TY
1	ACAC-01100-000	CORD-AC	10A/125V 2100mm CORE 270mm	PC	1
2	ACPC-00390-000	SMPS	KJP3011	PC	1
3	ACRC-00970-000	ASS'Y REMOCON	BE18A00	PC	1
	AJAF-09720-013	FOOT(ASS'Y)	DPR 1001 ABS, POLYURETH	PC	4
	AJAF-09730-013	KNOB-VOLUME(ASS'Y)	DPR 1001 ABS, AL, RUBBE	PC	1
	ANTL-00130-E00	ANTENNA-LOOP AM	S0146BY-100	PC	1
7	ANTW-00060-152	FM WIRE ANTENNA	FM ANT(NTSC)-750HM,1500mm	PC	1
8	AXAG-14700-004	MAGNET		PC	1
	LLA3-10211-E10	CARD CABLE	10P*210*C*1.25(0.1*0.8)	PC	1
	LLA3-13060-E10	CARD CABLE	13P*60*C*1.25*(0.1*0.8)5*5	PC	1
	LLA3-18080-E10	CARD CABLE	18P*80*C*1.25*(0.1*0.8)5*5	PC	1
	LLA3-18121-E11	CARD CABLE	18P*120*C*1.25*(0.1*0.8)	PC	1
13	LLA3-28291-E10	CARD CABLE	28P*290*C*1.25*(0.1*0.8)	PC	1
14	LLA3-30080-E10	CARD CABLE	30P*80*C*1.25*(0.1*0.8)5*5	PC	1
15	MAAF-04090-012	WINDOW-FL	DPR 1001 ACRYL 3T M/R L	PC	1
	MAAF-18660-014	LENS-OPTICAL	DPR 1001 PMMA	PC	4
	MAAF-18670-014	LENS-POWER	DPR 1001 PMMA	PC	1
18	MAAF-18700-014	FILTER-FL	DPR 1001 PVC(RSM-05)94	PC	1
19	MAAF-18710-004	SHEET-LED(A)	PE(DRAFTING FILM)	PC	1
20	MAAF-18720-004	SHEET-LED(B)	PE(DRAFTING FILM)	PC	1
21	MAAF-18750-014	SHEET-DOOR	DPR 1001 PVC 0.25T	PC	1
	MAAF-18930-004	INSULATION-SHEET	PVC TO.3	PC	1
	MEAC-05361-003		A6063 T5	PC	1
		HEATSINK-MAIN			
	MJAF-04070-012	DOOR-CAP	DPR 1001 ABS	PC	1
25	MJAF-06880-011	PANEL-FRONT	DPR 1001 HI-PS	PC	1
26	MJAF-09670-013	DOOR-BASE	DPR 1001 ABS	PC	1
27	MJAF-09680-013	F00T	DPR 1001 ABS	PC	4
28	MJAF-09690-013	KNOB-FUNCTION(A)	DPR 1001 ABS	PC	1
	MJAF-09700-013	KNOB-FUNCTION(B)	DPR 1001 ABS	PC	1
	MJAF-09710-013	KNOB-VOLUME	DPR 1001 ABS	PC	1
	MJAF-16060-014	KNOB-SPEAKER	F40-POWER ABS	PC	1
	MJAF-18630-004	GUIDE-LED(A)	ABS 94V-0	PC	3
33	MJAF-18640-004	GUIDE-LED(B)	ABS 94V-0	PC	2
34	MJAF-18650-004	JOINT-STANDBY	ABS	PC	1
35	MJAF-18680-004	SUPPORT-PCB	ABS	PC	3
36	MJAG-00280-003	CORD-BUSH	NIFCO	PC	1
	MJAG-04540-004	CABLE-TIE-L80		PC	12
	MJAG-14740-004		DACCOEN TENCLON TVDE		1
		SUPPORT	DASS35N TENSION TYPE	PC	
	MLAG-13850-034	BADGE-H/K	DPR 1001 AL	PC	1
40	MMAC-16400-004	SCREW-T/P-T00TH	3X10 BLACK	PC	10
41	MMAC-16403-CR4	SCREW-T/P-T00TH	3X8 CR	PC	8
42	MMAF-18690-014	RING-VOLUME	DPR 1001 AL 6063S T5	PC	1
43	MMSC-00900-004	AIR-STAPLER		PC	6
	MMTC-00751-003	SCREW-TAPPING	BHW T2T 3x8 FE-ZY	PC	7
	MPAC-05280-012	CHASS I S-BACK	DPR 1001 SECC TO.8	PC	1
	MPAC-05320-002	CHASSIS-BOTTOM	SECC T1.0	PC	1
_	MPAC-05330-012	CHASSIS-TOP	DPR 1001 VCM T0.8	PC	1
48	MPAC-17470-004	SPRING-PLATE	PB T0.2	PC	2
49	MPAC-17490-004	BRACKET-MAGNET	SECC TO.8 (BLACK PLATING)	PC	1
50	MPAC-17690-004	EMI SHEET	70*40	PC	1
51	MRAG-13050-004	CUSHION-A	FELT 250x10x0.5	PC	2
	MRAG-14551-004		POLYURETHAN RUBBER T3.0	PC	2
	MRAG-14552-004	CUSHION-FOOT(REAR)	POLYURETHAN RUBBER T3.0	PC	2
	MRAG-14560-014	RUBBER-VOLUME	DPR 1001 CR	PC	1
	MRAG-14710-004	CUSHION-SUPPORT	15X15XT8	PC	2
	MRAG-14760-004	CUSHION SMPS	EVA 60*20*8T UL	PC	2
57	MXAG-14730-004	INSULATE-TUBE	POLYOLEFIN 0.4T	PC	1
58	TUMR-00140-00K	AM/FM TUNER MODULE	KST-MV014MA0-80	PC	1
	UM08-51070-000	WIRE-ASS'Y	2457/1533#28 GRY-370 5P	PC	1
	U345-6B332-450	WIRE-ASS'Y	1618#18 BLU-320 3P	PC	1
	U345-6B353-450	WIRE-ASS'Y	1618#18 BLU-530 3P	PC	1
	U449-61225-490	WIRE-ASS'Y	1007#16 BLU-250 4P	PC	1
	XSTB-30080-ZB4	SCREW-TAPPING	BHT2T 3x8 FE-ZB	PC	2
64	XSTB-30080-ZY4	SCREW-TAPPING	BHT2T 3x8 FE-ZY	PC	14

MECHANICAL PART LIST

65	XSTB-30100-ZB4	SCREW-TAPPING	BHT2T 3x10 FE-ZB	PC	32
66	XSTB-30100-ZY4	SCREW-TAPPING	BHT2T 3x10 FE-ZY	PC	22
67	XSTF-30080-ZY4	SCREW-TAPPING	FHT2T 3x8 FE-ZY	PC	4
68	XSTS-30080-ZY4	SCREW-TAPPING	PHWT2T 3x8 FE-ZY	PC	6
69	YGAP-16650-014	BOX-GIFT	DPR 1001 DW2	PC	1
70	YSAP-12290-002	CUSHION-L/R	EPS	PC	2
71	YVAP-01862-014	POLY-BAG-I(G)		PC	1
72	YVAP-13320-014	TOILON-SHEET	750x1200,0.5t	PC	1
73	MRAG-14770-004	CUSHION FELT	FELT 20*8*0.5T	PC	1
74	MRAG-14780-004	CUSHION(A)	EVA 60*10*8T UL	PC	1
75	MRAG-14790-004	CUSHION(B)	EVA 36*20*8T UL	PC	1
76	MMTC-00752-003	SCREW-TAPPING	BHW T2T 3x10 FE-ZY	PC	3
77	MMTC-00754-003	SCREW-TAPPING	BHW T2T 3x14 FE-ZY	PC	3
78	MMAC-15650-004	SCREW-RADIATOR		PC	3
79	ACRC-01000-000	ZONEII REMOCON	HG18B	PC	1
80	MPAC-17710-004	EMI SHEET-A	80*30 +	PC	1
81	MPAC-17720-004	EMI SHEET-B	40*20	PC	1
82	MRAG-14800-004	PVC SHEET	PVC 0.3T UL	PC	1
83	MRAG-13840-004	CUSHION-REMOTE	EVA T=11.0	PC	2
84	MPAC-17730-004	CLAMP WIRE		PC	4

BLOCK-PRINT

NO	PART CODE	PART NAME	DESCRIPTION	UNIT	Q`TY
1	YBAP-14361-014	SERIAL No.LABEL	30X8	PC	1
2	YBAP-14900-014	LABEL-BAR CODE	ART PAPER TO.1	PC	2
3	YBAP-14910-014	LABEL-PRODUCTION	ART PAPER TO.1	PC	1
4	YBAP-14920-014	LABEL-FUSE	ART PAPER TO.1	PC	1
5	YBAP-14930-134	LABEL-UPC	ART PAPER TO.1	PC	2
6	YBAP-15581-054	LABEL-CODE39		PC	3
7	YBAP-15670-014	LABEL-WINDOW	ART PAPER 01	PC	1
8	YBAP-16930-014	LABEL-C/CAUTION	DPR 1001 132X32 R=1.5	PC	1
9	YBAP-16940-014	LABEL-DOLBY	DPR 1001 66X68 R=1.5	PC	1
10	YBAP-16960-014	WARRANTY-CARD	210X297	PC	1
11	YBAP-16970-014	SAFETY-CARD	210X297	PC	1
12	YBAP-17020-014	QUICK START GUIDE	DPR 1001	PC	1
13	YIAR-L2000-01A	INST-MANUAL		PC	1
14	YBAP-17090-ZZ4	OM INSERT SHEET		PC	1

A2AR L2000 AZA

BLOCK-SUB

NO	PART CODE	PART NAME	DESCRIPTION	UNIT	Q`TY
1	ZGSI-01000-9PN	GREASE-SILICON	G-746	g	1
2	ZT0P-00701-50C	TAPE-OPP		m	2.133
3	ZTWF-01200-039	TAPE-DOUBLE FACE	TESA 4968 W =3.0 t=0.32	m	0.2
4	ZBNG-00700-4ZL	BOND-ADHESIVE	#575	g	0.5
5	ZBNG-01300-5ZL	LOCKER-SCREW	#1401B	g	0.1
6	ZSBR-00010-060	SOLDER-BAR	SN60	g	15
7	ZSWR-00010-F60	SOLDER-WIRE	D1.0 SN60	g	15
8	ZZFX-00010-000	FLUX	ROSIN	g	7
9	ZZTH-00010-000	DILUENT	ROSIN	a	2

ELECTRICAL PART LIST

FRONT (V FD) LOCNUM SONITM	MATDES	MATSPC
C117 CCAT-E222M-AAY	CAPACITOR CERAMIC	2200PF M 16V Y5R T
C118 CCAT-E222M-AAY		2200PF M 16V Y5R T
C114 CCAT-J104Z-AAF		0.1uF Z 50V F T
C115 CCAT-J104Z-AAF C111 CCMB-J101J-0BZ		0.1uF Z 50V F T 100PF J 50V Z B
C112 CCMB-J101J-0BZ		100PF J 50V Z B
C113 CCMB-J101J-0BZ		100PF J 50V Z B
C106 CCMB-J104Z-0BF		0.1uF Z 50V F B
C108 CCMB-J104Z-0BF		0.1uF Z 50V F B
C120 CCMB-J104Z-0BF C124 CCMB-J104Z-0BF		0.1uF Z 50V F B 0.1uF Z 50V F B
C125 CCMB-J104Z-0BF		0.1uF Z 50V F B
C101 CCMB-J220J-0BC	CAPACITOR CHIP/MULT	22PF J 50V C B
C102 CCMB-J220J-0BC		22PF J 50V C B
C109 CCMB-J821K-0BB C110 CCMB-J821K-0BB		820PF K 50V X7R B 820PF K 50V X7R B
	CAPACITOR E/ALUMINUM	220uF M 10V 6.3x11 T
	CAPACITOR E/ALUMINUM	220uF M 10V 6.3x11 T
	CAPACITOR E/ALUMINUM	47uF/25V (6.3x7)
	CAPACITOR E/ALUMINUM	47uF/25V (6.3x7)
C123 CEET-F470M-DE0 C103 CEET-J470M-DI0	CAPACITOR E/ALUMINUM CAPACITOR E/ALUMINUM	47uF/25V (6.3x7) 47uF M 50V 6.3x11 T
C104 CEET-J470M-DI0	CAPACITOR E/ALUMINUM	47uF M 50V 6.3x11 T
D101 DDTS-00070-SO0		1SS133 (40V 0.11A) DO-40 T
D102 DDTS-00070-S00		1SS133 (40V 0.11A) DO-40 T
ZD101 DDTZ-G075B-S00 VFD101 DPFL-00970-00P	DIODE ZENER DISPLAY-FLUORSCENT	MTZ7.5B 7.07-7.45 D040 T CM2052G
LD101 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD102 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD103 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD104 DPLE-01050-000 LD105 DPLE-01050-000	DISPLAY-LED DISPLAY-LED	SY3511-E(F4T) SY3511-E(F4T)
LD106 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD107 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD108 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD109 DPLE-01050-000 LD110 DPLE-01050-000	DISPLAY-LED DISPLAY-LED	SY3511-E(F4T) SY3511-E(F4T)
LD111 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD112 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD113 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD114 DPLE-01050-000 LD115 DPLE-01050-000	DISPLAY-LED DISPLAY-LED	SY3511-E(F4T) SY3511-E(F4T)
LD116 DPLT-01060-000	LED LAMP	SY3511 (F4T)
LD117 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD118 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD119 DPLT-01060-000 LD120 DPLT-01060-000	LED LAMP	SY3511(F4T) SY3511(F4T)
LD121 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD122 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD123 DPLT-01060-000 LD124 DPLT-01060-000	LED LAMP LED LAMP	SY3511(F4T) SY3511(F4T)
LD125 DPLT-01060-000	LED LAMP	SY3511(F4T)
IC103 ICLN-04720-SB0	IC 8BIT SHIF/STORE	BU4094BC SOP16
IC101 ICLN-04820-S10	IC VFD DRIVER	LC75725E QIP64
IC102 ICLN-04820-S10 KI0T-4330K-003	IC VFD DRIVER COIL-INDUCTOR	LC75725E QIP64 33uH K L5 2.3x3.4 LAL02
	CONNECTOR-WAFER	53015-0610 2mm-WHT
CN102 KNCW-00240-3T9		53014-03 2.0mm WHT
CN101 KNCW-00760-SS0		8370-287 1.25mm SIDE 28P
CN104 KNCW-06880-13T MJAF-04080-002	GUIDE-FL	JE117-C13G-13 ABS 94V-0
PCSR-05940-11B	PCB-SINGLE	A1R-594
C116 RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R151 RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
R111 RCFT-E103J-000 R153 RCFT-E472J-000	RESISTOR-CARBON FILM RESISTOR-CARBON FILM	10Kohm 1/5W 5% T 4.7Kohm 1/5W 5% T
R103 RCFT-F221J-010	RESISTOR-CARBON FILM	220ohm 1/4W 5% T
R104 RCFT-F221J-010	RESISTOR-CARBON FILM	220ohm 1/4W 5% T
R154 RCPB-B101J-21C R155 RCPB-B101J-21C		100ohm 1/10W 5% B 100ohm 1/10W 5% B
11100 1100 0 0 1010 210	TILOIOTON-OHIF U/FILIVI	TOUCHIN T/TOW 5% D

R113 RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
B114 BCPB-B102.I-21C	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R141 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R149 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R150 RCPR-R103 I-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R156 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R157 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
RCPB-B105J-21C	RESISTOR-CHIP C/FILM	1Mohm 1/10W 5% B
R148 RCPB-B123J-21C	RESISTOR-CHIP C/FILM	12Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
		2.2Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	
	RESISTOR-CHIP C/FILM	33ohm 1/10W 5% B
R106 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	33ohm 1/10W 5% B
R107 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	33ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	33ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	33ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	33ohm 1/10W 5% B
R116 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R117 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R121 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R122 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
B123 BCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R127 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R128 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R129 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R133 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R134 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
B135 BCPB-B331.I-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R138 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R139 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R140 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	3.3Kohm 1/10W 5% B
R146 RCPB-B472J-21C		4.7Kohm 1/10W 5% B
R101 RCPB-B562J-21C		,
R102 RCPB-B562J-21C	RESISTOR-CHIP C/FILM	
R147 RCPB-B562J-21C		5.6Kohm 1/10W 5% B
		5.6Kohm 1/10W 5% B 5.6Kohm 1/10W 5% B
IC104 SKMJ-00370-000		
IC104 SKMJ-00370-000	RESISTOR-CHIP C/FILM RECEIVING MODULE	5.6Kohm 1/10W 5% B
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT SWITCH TACT	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT SWITCH TACT SWITCH TACT	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT SWITCH TACT SWITCH TACT	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q103 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0 Q104 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q103 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0 Q104 TRTC-02050-SD0 Q105 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0 Q104 TRTC-02050-SD0 Q105 TRTC-02050-SD0 Q106 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0 Q104 TRTC-02050-SD0 Q105 TRTC-02050-SD0 Q106 TRTC-02050-SD0 Q107 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0 Q103 TRTC-02050-SD0 Q104 TRTC-02050-SD0 Q105 TRTC-02050-SD0 Q106 TRTC-02050-SD0 Q107 TRTC-02050-SD0 Q108 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0 Q103 TRTC-02050-SD0 Q104 TRTC-02050-SD0 Q105 TRTC-02050-SD0 Q106 TRTC-02050-SD0 Q107 TRTC-02050-SD0 Q108 TRTC-02050-SD0 Q108 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0 Q103 TRTC-02050-SD0 Q104 TRTC-02050-SD0 Q105 TRTC-02050-SD0 Q106 TRTC-02050-SD0 Q107 TRTC-02050-SD0 Q108 TRTC-02050-SD0 Q109 TRTC-02050-SD0 Q109 TRTC-02050-SD0 Q109 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0 Q103 TRTC-02050-SD0 Q104 TRTC-02050-SD0 Q105 TRTC-02050-SD0 Q106 TRTC-02050-SD0 Q107 TRTC-02050-SD0 Q108 TRTC-02050-SD0 Q109 TRTC-02050-SD0 Q109 TRTC-02050-SD0 Q101 TRTC-02050-SD0 Q110 TRTC-02050-SD0 Q110 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M
IC104 SKMJ-00370-000 JK101 SKPH-00293-66W SW101 SWTA-00650-000 SW102 SWTA-00650-000 SW103 SWTA-00650-000 SW104 SWTA-00650-000 SW105 SWTA-00650-000 SW106 SWTA-00650-000 SW107 SWTA-00650-000 Q101 TRTC-02050-SD0 Q102 TRTC-02050-SD0 Q103 TRTC-02050-SD0 Q104 TRTC-02050-SD0 Q105 TRTC-02050-SD0 Q106 TRTC-02050-SD0 Q107 TRTC-02050-SD0 Q108 TRTC-02050-SD0 Q109 TRTC-02050-SD0 Q109 TRTC-02050-SD0 Q109 TRTC-02050-SD0	RESISTOR-CHIP C/FILM RECEIVING MODULE SOCKET-PHONE SWITCH TACT TRANSISTOR N-H FREQ	5.6Kohm 1/10W 5% B VSR5A/5B HTJ064-05BG GOLD SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 SKQNAED010 KRC120M W/RESIST TO92M

ELECTRICAL PART LIST

FRONT (KEY) Locnum sonitm	MATDES	MATSEC
C216 CACS-S472M-200		MATSPC KH DE1310E 472M 250V P10mm
	CAPACITOR CHIP/MULT	100PF J 50V Z B
	CAPACITOR CHIP/MULT	100PF J 50V Z B
	CAPACITOR CHIP/MULT	100PF J 50V Z B
	CAPACITOR CHIP/MULT	100PF J 50V Z B
C206 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
C208 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
	CAPACITOR CHIP/MULT CAPACITOR E/ALUMINUM	560PF J 50V Z B 220uF M 10V 6.3x11 T
	CAPACITOR E/ALUMINUM	100uF M 25V 6.3x11 T
	CAPACITOR E/ALUMINUM	47uF/25V (6.3x7)
	CAPACITOR E/ALUMINUM	47uF/25V (6.3x7)
C221 CEET-F470M-DE0	CAPACITOR E/ALUMINUM	47uF/25V (6.3x7)
LD238 DPLE-00280-RG0		SAM5270 RED/GRN
LD239 DPLE-00990-RG0		SAM3270
LD240 DPLE-00990-RG0		SAM3270
LD201 DPLE-01050-000 LD202 DPLE-01050-000	DISPLAY LED	SY3511-E(F4T)
LD202 DPLE-01050-000 LD203 DPLE-01050-000	DISPLAY-LED DISPLAY-LED	SY3511-E(F4T) SY3511-E(F4T)
LD204 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD205 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD206 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD207 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD208 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD209 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD210 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD211 DPLE-01050-000 LD212 DPLE-01050-000	DISPLAY-LED DISPLAY-LED	SY3511-E(F4T) SY3511-E(F4T)
LD213 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD214 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD215 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD216 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD217 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD218 DPLE-01050-000	DISPLAY-LED DISPLAY-LED	SY3511-E(F4T) SY3511-E(F4T)
LD219 DPLE-01050-000 LD220 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD221 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD222 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD223 DPLE-01050-000	DISPLAY-LED	SY3511-E(F4T)
LD224 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD225 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD226 DPLT-01060-000 LD227 DPLT-01060-000	LED LAMP LED LAMP	SY3511(F4T) SY3511(F4T)
LD228 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD229 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD230 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD231 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD232 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD233 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD234 DPLT-01060-000 LD235 DPLT-01060-000	LED LAMP LED LAMP	SY3511(F4T) SY3511(F4T)
LD236 DPLT-01060-000	LED LAMP	SY3511(F4T)
LD237 DPLT-01060-000	LED LAMP	SY3511(F4T)
IC203 ICHY-00350-SB0	IC REMOTE CONTROL	RPM6938-V4
IC201 ICLN-04720-SB0	IC 8BIT SHIF/STORE	BU4094BC SOP16
IC202 ICLN-04720-SB0	IC 8BIT SHIF/STORE	BU4094BC SOP16
CN204 KNCW-00160-2S9		53015-0210 2mm-WHT
CN203 KNCW-00760-AS0 CN205 KNCW-00980-2S9		8370-107 1.25mm SIDE 10P JE202A-2T-2P
CN201 KNCW-06910-013		JE600A-13
MJAF-18620-004		ABS 94V-0
PCSR-06030-11B		A1R-603
	RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B

R265 RCPB-B101J-21C RESISTOR-CHIP C/FILM 100ohm 1/10W 5% B

ELECTRICAL PART LIST

R229 RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R231 RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R232 RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R243 RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R244 RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R247 RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R249 RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R248 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R250 RCPB-B122J-21C	RESISTOR-CHIP C/FILM	1.2Kohm 1/10W 5% B
R255 RCPB-B123J-21C	RESISTOR-CHIP C/FILM	12Kohm 1/10W 5% B
B251 BCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R256 RCPB-B221J-21C		
		,
R257 RCPB-B221J-21C		220ohm 1/10W 5% B
R258 RCPB-B221J-21C	RESISTOR-CHIP C/FILM	220ohm 1/10W 5% B
R259 RCPB-B221J-21C	RESISTOR-CHIP C/FILM	220ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	2.4Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R202 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R203 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	
		,
R206 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R207 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R208 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R211 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R212 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R213 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R214 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
		,
R215 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R216 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R217 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
B218 BCPB-B331,I-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R221 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R222 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
B223 BCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
		•
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R227 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R228 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
B233 BCPB-B331,I-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R234 RCPB-B331J-21C		330ohm 1/10W 5% B
R235 RCPB-B331J-21C		330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R237 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R238 RCPB-B331,I-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R241 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R242 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R245 RCPB-B331J-21C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R246 RCPB-B331J-21C		330ohm 1/10W 5% B
R253 RCPB-B332J-21C		3.3Kohm 1/10W 5% B
R224 RCPB-B470J-21C		47ohm 1/10W 5% B
R260 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R261 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R254 RCPB-B562J-21C		5.6Kohm 1/10W 5% B
JW1 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW10 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW11 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW12 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW13 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW14 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW15 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW16 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
		00 T\// 00 F

JW17 RJWT-00000-AA0 RESISTOR-JUMPER WIRE

60mm-TX123 F

.IW18	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
_		RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0		
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW21	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW22	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
.IW23	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
_	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW26	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW27	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW28	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
-	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW31	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW32	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
.IW33	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW37	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW38	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW39	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
_	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW42	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW43	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW44	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
			60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW50	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW51	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW6	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0		
		RESISTOR-JUMPER WIRE	60mm-TX123 F
	RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JK202	SKDN-00141-010	S-CONNECTOR (1P)	C40160261G
JK201	SKRC-00380-031	SOCKET-RCA	JK0300081G
.IK203	SKRC-01360-01P	RCA JACK	JK010053HG
			• · · · · · · · · · · · · · · · · · · ·
	SWPU-00680-000		SDKVB1040X 3.2HOLE
	SWTA-00650-000	SWITCH TACT	SKQNAED010
SW202	SWTA-00650-000	SWITCH TACT	SKQNAED010
SW203	SWTA-00650-000	SWITCH TACT	SKQNAED010
SW204	SWTA-00650-000	SWITCH TACT	SKQNAED010
	SWTA-00650-000	SWITCH TACT	SKQNAED010
	SWTA-00650-000		
		SWITCH TACT	SKQNAED010
	SWTA-00650-000	SWITCH TACT	SKQNAED010
SW208	SWTA-00650-000	SWITCH TACT	SKQNAED010
Q209	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
Q219	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
0000	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M
Q220			
	TRTC-01700-SD0 TRTC-01700-SD0	TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M
Q201	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M KRC120M W/RESIST TO92M
Q201 Q202	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M KRC120M W/RESIST TO92M KRC120M W/RESIST TO92M
Q201 Q202 Q203	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M KRC120M W/RESIST TO92M KRC120M W/RESIST TO92M KRC120M W/RESIST TO92M
Q201 Q202 Q203 Q204	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	KRC107M W/RESIST T092M KRC107M W/RESIST T092M KRC120M W/RESIST T092M KRC120M W/RESIST T092M KRC120M W/RESIST T092M KRC120M W/RESIST T092M
Q201 Q202 Q203 Q204 Q205	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	KRC107M W/RESIST T092M KRC107M W/RESIST T092M KRC120M W/RESIST T092M
Q201 Q202 Q203 Q204 Q205	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	KRC107M W/RESIST T092M KRC107M W/RESIST T092M KRC120M W/RESIST T092M
Q201 Q202 Q203 Q204 Q205 Q206	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST T092M KRC107M W/RESIST T092M KRC120M W/RESIST T092M
Q201 Q202 Q203 Q204 Q205 Q206 Q207	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST T092M KRC107M W/RESIST T092M KRC120M W/RESIST T092M
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST T092M KRC107M W/RESIST T092M KRC120M W/RESIST T092M
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q211	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST T092M KRC107M W/RESIST T092M KRC120M W/RESIST T092M
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q211 Q212	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M KRC120M W/RESIST TO92M
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q211 Q212	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST T092M KRC107M W/RESIST T092M KRC120M W/RESIST T092M
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q211 Q212 Q213	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M KRC120M W/RESIST TO92M
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q211 Q212 Q213 Q214	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M KRC120M W/RESIST TO92M
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q211 Q212 Q213 Q214 Q215	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M KRC120M W/RESIST TO92M
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q211 Q212 Q213 Q214 Q215	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M KRC120M W/RESIST TO92M
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q211 Q212 Q213 Q214 Q215	TRTC-01700-SD0 TRTC-01700-SD0 TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M KRC120M W/RESIST TO92M

M A IN LOCNUM SONITM	MATDES	MATSPC
C601 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C602 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C603 CCMB-J101J-0BZ C604 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C605 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C606 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C607 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C608 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C609 CCMB-J101J-0BZ C610 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C611 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C612 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C613 CCMB-J101J-0BZ C614 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C615 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C616 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C617 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C618 CCMB-J101J-0BZ C619 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C620 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C621 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C622 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C623 CCMB-J101J-0BZ C624 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C625 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C626 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C631 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C646 CCMB-J101J-0BZ C647 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C648 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C649 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C650 CCMB-J101J-0BZ C651 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C652 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C653 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C655 CCMB-J101J-0BZ C656 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C657 CCMB-J101J-0BZ		100PF J 50V Z B
C658 CCMB-J101J-0BZ C662 CCMB-J101J-0BZ		100PF J 50V Z B 100PF J 50V Z B
C663 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C783 CCMB-J101J-0BZ		100PF J 50V Z B
C637 CCMB-J103Z-0BF		0.01uF Z 50V F B
CS1 CCMB-J104Z-0BF CS10 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	0.1uF Z 50V F B 0.1uF Z 50V F B
CS12 CCMB-J104Z-0BF		0.1uF Z 50V F B
CS2 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
CS3 CCMB-J104Z-0BF CS4 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	0.1uF Z 50V F B 0.1uF Z 50V F B
CS4 CCMB-J104Z-0BF		0.1uF Z 50V F B
CS7 CCMB-J104Z-0BF		0.1uF Z 50V F B
CS8 CCMB-J104Z-0BF		0.1uF Z 50V F B
C635 CCMB-J104Z-0BF C645 CCMB-J104Z-0BF		0.1uF Z 50V F B 0.1uF Z 50V F B
C654 CCMB-J104Z-0BF		0.1uF Z 50V F B
C744 CCMB-J104Z-0BF		0.1uF Z 50V F B
C746 CCMB-J104Z-0BF C747 CCMB-J104Z-0BF		0.1uF Z 50V F B 0.1uF Z 50V F B
C747 CCMB-J104Z-0BF		0.1uF Z 50V F B
C749 CCMB-J104Z-0BF		0.1uF Z 50V F B
C750 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
C751 CCMB-J104Z-0BF C752 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	0.1uF Z 50V F B 0.1uF Z 50V F B
C753 CCMB-J104Z-0BF		0.1uF Z 50V F B
C754 CCMB-J104Z-0BF		0.1uF Z 50V F B
C767 CCMB-J104Z-0BF C768 CCMB-J104Z-0BF		0.1uF Z 50V F B 0.1uF Z 50V F B
C769 CCMB-J104Z-0BF		0.1uF Z 50V F B
C770 CCMB-J104Z-0BF		0.1uF Z 50V F B
C771 CCMB-J104Z-0BF C772 CCMB-J104Z-0BF		0.1uF Z 50V F B 0.1uF Z 50V F B
C772 CCMB-J104Z-0BF		0.1uF Z 50V F B

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0.1uF Z 50V F
C775 CCMB-J104Z-0BF CAPACITOR CHIP/MULT
C777 CCMB-J104Z-0BF CAPACITOR CHIP/MULT
                                             0.1uF Z 50V F
                                                            B
C778 CCMB-J104Z-0BF CAPACITOR CHIP/MULT
                                             0.1uF
                                                   Z 50V F
                                                            B
C779 CCMB-J104Z-0BF CAPACITOR CHIP/MULT
                                                   Z 50V F
                                             0.1uF
                                                            В
                                             0.1uF Z 50V F
C781 CCMB-J104Z-0BF CAPACITOR CHIP/MULT
                                                            В
                                             0.1uF Z 50V F
C784 CCMB-J104Z-0BF CAPACITOR CHIP/MULT
                                                            B
C785 CCMB-J104Z-0BF CAPACITOR CHIP/MULT
                                             0.1uF Z 50V F
                                                            В
C669 CCMB-J151J-0BC CAPACITOR CHIP/MULT
                                             150PF J 50V C
C670 CCMB-J151J-0BC CAPACITOR CHIP/MULT
                                             150PF J 50V C
                                                            В
C786 CCMB-J152J-0BZ CAPACITOR CHIP/MULT
                                             1500PF J 50V
                                                            Ζ
                                                               В
C787 CCMB-J152J-0BZ CAPACITOR CHIP/MULT
                                             1500PF
                                                     J 50V
                                                            Ζ
C632 CCMB-J330J-0BC CAPACITOR CHIP/MULT
                                             33PF
                                                   J 50V C
                                                            В
C633 CCMB-J330J-0BC CAPACITOR CHIP/MULT
                                             33PF
                                                   J 50V C
                                                            В
C636 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
                                                             В
C638 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
C640 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
                                                             B
C642 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
                                                          7
                                                             B
C644 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J
                                                     50V
                                                             B
C659 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
                                                          Ζ
                                                             В
C660 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
                                                          7
                                                             В
C661 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
                                                          7
                                                             B
C665 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
                                                             B
                                             56PF
C667 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                                   J 50V
                                                          Ζ
                                                             B
C668 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
                                                          7
                                                             R
C682 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J
                                                     50V
                                                          Ζ
                                                             В
C683 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J
                                                     50V
                                                          Ζ
                                                             В
C687 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                     50V
                                                          Ζ
                                                   J
                                                             В
C796 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
                                             56PF
                                                   J 50V
                                                          Ζ
                                                             В
                                             56PF J 50V Z
C799 CCMB-J560J-0BZ CAPACITOR CHIP/MULT
C738 CEET-C102M-HJ1 CAPACITOR E/ALUMINUM
                                             1000uF 6.3V 10x12.5 SMS T
C739 CEET-C102M-HJ1 CAPACITOR E/ALUMINUM
                                             1000uF 6.3V 10x12.5 SMS T
C802 CEET-E100M-AC0 CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 3.5x5
                                                                 Т
C804 CEET-E100M-AC0 CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 3.5x5
                                                                 Τ
                                                   M 16V 3.5x5
C805 CEET-E100M-AC0 CAPACITOR E/ALUMINUM
                                             10uF
                                                                 Т
C807 CEET-E100M-AC0 CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 3.5x5
                                                                 Τ
C743 CEET-E221M-FIO CAPACITOR E/ALUMINUM
                                             220uF M 16V 8x11.5
C745 CEET-E221M-FIO CAPACITOR E/ALUMINUM
                                             220uF M 16V 8x11.5
C780 CEET-E221M-FIO CAPACITOR E/ALUMINUM
                                             220uF M 16V 8x11.5
C729 CEET-E222M-KLO CAPACITOR E/ALUMINUM
                                             2200uF M
                                                      16V 12 5x16 T
C709 CEET-E331M-FI0
                     CAPACITOR E/ALUMINUM
                                             330uF
                                                    М
                                                      16V 8x11.5
C730 CEET-E331M-FI0
                     CAPACITOR E/ALUMINUM
                                             330uF
                                                    M
                                                      16V 8x11.5
C740 CEET-E331M-FI0
                     CAPACITOR E/ALUMINUM
                                             330uF
                                                      16V 8x11.5
                                                    M
C741 CEET-E331M-FI0
                     CAPACITOR E/ALUMINUM
                                             330uF
                                                    M 16V 8x11.5
C774 CEET-E331M-FI0
                     CAPACITOR E/ALUMINUM
                                             330uF
                                                   M 16V 8x11.5
C671 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Т
C672 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Т
C673 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C676 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
                                                   M 25V 5x11
C677 CEET-F330M-CIO CAPACITOR E/ALUMINUM
                                             33uF
                                                                 Т
C678 CEET-F330M-CIO CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C679 CEET-F330M-CIO CAPACITOR E/ALUMINUM
                                                   M 25V 5x11
                                             33uF
C680 CEET-F330M-CIO CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C689 CEET-F330M-CIO CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C690 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C698 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C699 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C700 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C715 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
C716 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C721 CEET-F330M-CI0
                                             33uF
                     CAPACITOR E/ALUMINUM
                                                   M 25V 5x11
                                                                 Т
C725 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C765 CEET-F330M-CI0
                     CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C797 CEET-F330M-CI0
                    CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C800 CEET-F330M-CIO CAPACITOR E/ALUMINUM
                                             33uF
                                                   M 25V 5x11
                                                                 Τ
C684 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                             47uF
                                                   M 25V 5x11
                                                                 Τ
C685 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                             47uF
                                                   M 25V 5x11
                                                                 Τ
C694 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                             47uF
                                                   M 25V 5x11
                                                                 Т
C695 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                             47uF
                                                   M 25V 5x11
                                                                 Т
C707 CEET-F470M-CIO
                     CAPACITOR E/ALUMINUM
                                             47uF
                                                   M 25V 5x11
                                                                 Τ
C708 CEET-F470M-CI0
                     CAPACITOR E/ALUMINUM
                                             47uF
                                                      25V 5x11
                                                                 Τ
                                                    M
C713 CEET-F470M-CI0
                     CAPACITOR E/ALUMINUM
                                             47uF
                                                   M 25V 5x11
                                                                 Т
C714 CEET-F470M-CIO
                                             47uF
                                                   M 25V 5x11
                    CAPACITOR E/ALUMINUM
                                                                 Τ
C717 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                             47uF
                                                   M 25V 5x11
                                                                 Τ
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C718 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Τ
C723 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Τ
C724 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Τ
C727 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Τ
C731 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Τ
C732 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Т
C734 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Τ
C735 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Τ
C755 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Т
C766 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Т
C872 CEET-F470M-CIO CAPACITOR E/ALUMINUM
                                              47uF
                                                    M 25V 5x11
                                                                  Τ
C792 CEET-G100M-CI0 CAPACITOR E/ALUMINUM
                                              10uF
                                                    M 35V 5x11
                                                                  Τ
C789 CEET-JR33M-CIO CAPACITOR E/ALUMINUM
                                              0.33uF M 50V 5x11
                                                                  Т
C722 CEET-J1R0M-CI0 CAPACITOR E/ALUMINUM
                                              1.0uF
                                                    M 50V 5x11
                                                                  Τ
C733 CEET-J1R0M-CI0 CAPACITOR E/ALUMINUM
                                              1.0uF
                                                    M 50V 5x11
                                                                  Τ
C788 CEET-J1R0M-CI0 CAPACITOR E/ALUMINUM
                                              1.0uF
                                                    M 50V 5x11
                                                                  Τ
C801 CEET-J1R0M-CI0 CAPACITOR E/ALUMINUM
                                              1.0uF M 50V 5x11
                                                                  Т
C808 CEET-J1R0M-CIO CAPACITOR E/ALUMINUM
                                             1.0uF M 50V 5x11
                                                                  Т
                                            10uF M 50V 5x11
C726 CEET-J100M-CIO CAPACITOR E/ALUMINUM
                                                                  Т
C639 CEET-J4R7M-CI0 CAPACITOR E/ALUMINUM
                                              4.7uF M 50V 5x11
                                                                  Т
C641 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                              4.7uF M 50V 5x11
                                                                  Τ
C643 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                              4.7uF
                                                    M 50V 5x11
                                                                  Τ
                                              4.7uF M 50V 5x11
C664 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                                                  Τ
 C666 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM 4.7uF M 50V 5x11
 C674 CEET-J4R7M-CI0 CAPACITOR E/ALUMINUM 4.7uF M 50V 5x11
                                                                Т
 C675 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF
                                                  M 50V 5x11
                                                                Τ
 C681 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF M 50V 5x11
                                                                Т
 C686 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF M 50V 5x11
 C688 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF M 50V 5x11
                                                                Т
 C711 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF
                                                  M 50V 5x11
                                                                Τ
                                            4.7uF M 50V 5x11
 C712 CEET-J4R7M-CI0 CAPACITOR E/ALUMINUM
                                                                Τ
 C719 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF M 50V 5x11
                                            4.7uF M 50V 5x11
 C720 CEET-J4R7M-CI0 CAPACITOR E/ALUMINUM
                                                                Т
 C790 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF
                                                  M 50V 5x11
 C791 CEET-J4R7M-CI0 CAPACITOR E/ALUMINUM
                                            4.7uF M 50V 5x11
                                                                Т
 C793 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF M 50V 5x11
                                                                Τ
 C794 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF M 50V 5x11
                                                                Т
 C795 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                            4.7uF
                                                  M 50V 5x11
                                                                Τ
                                           4.7uF M 50V 5x11
 C798 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
BC601 CEGT-B104J-0J0 CAPACITOR E/DO LAYER
                                            0.1F J 5.5V SCDA5R5104A T
                                            0.10uF J 100V 12.1x14 T 0.10uF J 100V 12.1x14 T
 C628 CFMT-N104J-JK0 CAPACITOR F/POLYESTR
 C630 CFMT-N104J-JK0 CAPACITOR F/POLYESTR
 C627 CFMT-N152J-CJ0 CAPACITOR F/POLYESTR
                                            0.0015uF J 100V 5.4x12 T
 C629 CFMT-N152J-CJ0 CAPACITOR F/POLYESTR
                                            0.0015uF J 100V 5.4x12 T
 D601 DDTR-00040-T10 DIODE-RECTIFIER
                                            1N4004S(400V 1A 0.6mm) T
 D602 DDTS-00070-S00 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D603 DDTS-00070-S00 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D604 DDTS-00070-S00 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D605 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D606 DDTS-00070-S00 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D609 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D610 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D611 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D612 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
                                            1SS133 (40V 0.11A) DO-40 T
 D613 DDTS-00070-S00 DIODE-SI
 D614 DDTS-00070-S00 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
IC622 ESRY-00460-120 RELAY
                                            V23079-A1003-B301 12V
IC614 ICCM-01300-SD0 IC VOLUME CONTROL IC
                                            KIC9459F SOP24
                                            KIC9459F SOP24
IC616 ICCM-01300-SD0 IC VOLUME CONTROL IC
IC618 ICCM-01490-TK0 IC EEPROM
                                            AT24C32N-10SC-2.7
IC612 ICCM-21100-S30 IC ANALOG SWITCH
                                            TC9273 SOP 28
IC613 ICCM-21100-S30 IC ANALOG SWITCH
                                            TC9273 SOP 28
IC615 ICLN-03590-S10 IC ANALOG FUNCTION
                                            LC78213 DIP30
IC608 ICMP-03020-UT0 IC MICOM
                                            UPD78F4216AGF
IC602 ICOP-00134-SG0 IC DUAL OP AMP
                                            NJM4558M SOP8
IC603 ICOP-00134-SG0 IC DUAL OP AMP
                                            NJM4558M SOP8
IC604 ICOP-00134-SG0 IC DUAL OP AMP
                                            NJM4558M SOP8
IC605 ICOP-00134-SG0 IC DUAL OP AMP
                                            NJM4558M SOP8
IC606 ICOP-00134-SG0 IC DUAL OP AMP
                                            NJM4558M SOP8
IC607 ICOP-00134-SG0 IC DUAL OP AMP
                                            NJM4558M SOP8
IC619 ICOP-00134-SG0 IC DUAL OP AMP
                                            NJM4558M SOP8
IC620 ICOP-00134-SG0 IC DUAL OP AMP
                                            NJM4558M SOP8
IC621 ICOP-00134-SG0 IC DUAL OP AMP
                                            NJM4558M SOP8
IC611 ICOP-03120-SG0 IC DUAL OP AMP
                                            NJM4580D
IC610 ICPC-00010-TB0 IC PHOTOCOUPLER
                                            LTV817B DIP4
                                            LTV817B DIP4
IC617 ICPC-00010-TB0 IC PHOTOCOUPLER
 L703 KI0T-4100K-003 COIL-INDUCTOR
                                            10uH K LAL02 T
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CN601 KNCW-00240-AT9 CONNECTOR-WAFER	53014-10 2.0mm WHT
CN609 KNCW-00240-4T9 CONNECTOR-WAFER	53014-04 2.0mm WHT
CN617 KNCW-00240-6T9 CONNECTOR-WAFER	53014-06 2.0mm WHT
CN615 KNCW-00240-7T9 CONNECTOR-WAFER	53014-07 2.0mm WHT
CN604 KNCW-00760-AT0 CONNECTOR-WAFER	8370-101 1.25mm TOP 10P
CN603 KNCW-00760-DT0CONNECTOR-WAFER	8370-131 1.25mm TOP 13P
CN602 KNCW-00760-ITO CONNECTOR-WAFER	8370-181 1.25mm TOP 18P
CN605 KNCW-00760-IT0 CONNECTOR-WAFER	8370-181 1.25mm TOP 18P
CN608 KNCW-00760-ST0 CONNECTOR-WAFER	8370-281 1.25mm TOP 28P
CN610 KNCW-00760-UT0CONNECTOR-WAFER	8370-301 1.25mm TOP 30P
L701 KORB-00100-000 CHIP FERRITE BEADS	HB-1T2012-601
L702 KORB-00100-000 CHIP FERRITE BEADS	HB-1T2012-601
L704 KORB-00110-000 EMI BEAD FILTER	ATS3580I(MATERIAL:M3L)
X601 KTRE-00210-120 RESONATOR	CST12.0MTW-TF01
PCB1 PCSR-06070-11B PCB-SINGLE	A1R-607
R769 RCPB-B101J-21C RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
R864 RCPB-B101J-21C RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
R865 RCPB-B101J-21C RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
R868 RCPB-B101J-21C RESISTOR-CHIP C/FILM	1000hm 1/10W 5% B
R869 RCPB-B101J-21C RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
R872 RCPB-B101J-21C RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
R879 RCPB-B101J-21C RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
R883 RCPB-B101J-21C RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
R891 RCPB-B101J-21C RESISTOR-CHIP C/FILM	100ohm 1/10W 5% B
R625 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R626 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R629 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R630 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R631 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R632 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R636 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R637 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R638 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R639 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R640 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R641 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R642 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R643 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R656 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R657 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R658 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R659 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R660 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R661 RCPB-B102J-21C RESISTOR-CHIP C/FILM	
R662 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R663 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R664 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R665 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R667 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R668 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R669 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R670 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R671 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R672 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R673 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R674 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R692 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R693 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R694 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R702 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R703 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R704 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R760 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R761 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R764 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R765 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R767 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R772 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R773 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R780 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R849 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R850 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R856 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
R857 RCPB-B102J-21C RESISTOR-CHIP C/FILM	1Kohm 1/10W 5% B
	10Kohm 1/10W 5% B
R627 RCPB-B103J-21C RESISTOR-CHIP C/FILM	

R635 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R654 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R677 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R700 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R721 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R748 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R757 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R774 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R777 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R781 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R784 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R823 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R824 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R825 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R843 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R859 RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm 1/10W 5% B
R603 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R604 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
		,
R628 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R676 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R681 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R683 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R688 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R689 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R701 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R706 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R708 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R710 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R711 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R712 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R718 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R720 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R724 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R726 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R727 RCPB-B104-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R734 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R738 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	
		,
R739 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R740 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R741 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R746 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R758 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R759 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R788 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R791 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R814 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R817 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	
R820 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R848 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R866 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R867 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R870 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R873 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R877 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R878 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R880 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R884 RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm 1/10W 5% B
R680 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R682 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R690 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R691 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R705 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R707 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R709 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R717 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R750 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R751 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	
R793 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R815 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R818 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R821 RCPB-B152J-21C	RESISTOR-CHIP C/FILM	1.5Kohm 1/10W 5% B
R697 RCPB-B153J-21C	RESISTOR-CHIP C/FILM	15Kohm 1/10W 5% B
	DECICEOR CLUB OFFILM	4 ELV 1 4 /4 OVA1 EQV D
R698 RCPB-B153J-21C	RESISTOR-CHIP C/FILM	15Kohm 1/10W 5% B

R847 RCPR-R153 I-21C	RESISTOR-CHIP C/FILM	15Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	,
R633 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R634 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R644 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R645 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R646 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R715 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R716 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R730 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R731 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R744 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R745 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R785 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R786 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R798 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R799 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R800 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R801 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R802 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R803 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R804 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R811 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R812 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R822 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R829 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R830 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R860 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R861 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R862 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R863 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R889 RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm 1/10W 5% B
R675 RCPB-B225J-21C	RESISTOR-CHIP C/FILM	2.2Mohm 1/10W 5% B
R678 RCPB-B225J-21C	RESISTOR-CHIP C/FILM	
R719 RCPB-B225J-21C	RESISTOR-CHIP C/FILM	2.2Mohm 1/10W 5% B
R749 RCPB-B225J-21C	RESISTOR-CHIP C/FILM	2.2Mohm 1/10W 5% B
R776 RCPB-B225J-21C	RESISTOR-CHIP C/FILM	2.2Mohm 1/10W 5% B
R783 RCPB-B225J-21C	RESISTOR-CHIP C/FILM	2.2Mohm 1/10W 5% B
		,
R754 RCPB-B226J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 33ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 33ohm 1/10W 5% B 33ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 33ohm 1/10W 5% B 33ohm 1/10W 5% B 33ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 33ohm 1/10W 5% B 33ohm 1/10W 5% B 33ohm 1/10W 5% B 33ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 33ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R684 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 33ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R684 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 33ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R684 RCPB-B330J-21C R685 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R684 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 33ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R684 RCPB-B330J-21C R685 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B330J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R684 RCPB-B330J-21C R685 RCPB-B330J-21C R687 RCPB-B330J-21C R687 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R684 RCPB-B330J-21C R685 RCPB-B330J-21C R686 RCPB-B330J-21C R687 RCPB-B330J-21C R699 RCPB-B330J-21C R725 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B 3.3ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R684 RCPB-B330J-21C R685 RCPB-B330J-21C R686 RCPB-B330J-21C R687 RCPB-B330J-21C R699 RCPB-B330J-21C R725 RCPB-B330J-21C R732 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R685 RCPB-B330J-21C R686 RCPB-B330J-21C R687 RCPB-B330J-21C R699 RCPB-B330J-21C R732 RCPB-B330J-21C R733 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B 3.3ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R685 RCPB-B330J-21C R686 RCPB-B330J-21C R687 RCPB-B330J-21C R699 RCPB-B330J-21C R732 RCPB-B330J-21C R733 RCPB-B330J-21C R733 RCPB-B330J-21C R736 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B 33ohm 1/10W 5% B
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R754 RCPB-B226J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R483 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R685 RCPB-B330J-21C R686 RCPB-B330J-21C R687 RCPB-B330J-21C R699 RCPB-B330J-21C R732 RCPB-B330J-21C R733 RCPB-B330J-21C R733 RCPB-B330J-21C R736 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B
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R754 RCPB-B226J-21C R652 RCPB-B271J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R851 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R685 RCPB-B330J-21C R686 RCPB-B330J-21C R687 RCPB-B330J-21C R699 RCPB-B330J-21C R725 RCPB-B330J-21C R732 RCPB-B330J-21C R732 RCPB-B330J-21C R736 RCPB-B330J-21C R736 RCPB-B330J-21C R756 RCPB-B330J-21C R757 RCPB-B330J-21C R770 RCPB-B330J-21C R771 RCPB-B330J-21C R775 RCPB-B330J-21C R776 RCPB-B330J-21C R777 RCPB-B330J-21C R777 RCPB-B330J-21C R790 RCPB-B330J-21C R794 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R852 RCPB-B330J-21C R853 RCPB-B330J-21C R855 RCPB-B330J-21C R876 RCPB-B330J-21C R876 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B 3.3ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R685 RCPB-B330J-21C R686 RCPB-B330J-21C R687 RCPB-B330J-21C R687 RCPB-B330J-21C R725 RCPB-B330J-21C R732 RCPB-B330J-21C R732 RCPB-B330J-21C R736 RCPB-B330J-21C R756 RCPB-B330J-21C R757 RCPB-B330J-21C R757 RCPB-B330J-21C R758 RCPB-B330J-21C R759 RCPB-B330J-21C R759 RCPB-B330J-21C R770 RCPB-B330J-21C R771 RCPB-B330J-21C R775 RCPB-B330J-21C R776 RCPB-B330J-21C R777 RCPB-B330J-21C R789 RCPB-B330J-21C R790 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R852 RCPB-B330J-21C R853 RCPB-B330J-21C R857 RCPB-B330J-21C R876 RCPB-B330J-21C R876 RCPB-B330J-21C R877 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B 3.3ohm 1/10W 5% B
R754 RCPB-B226J-21C R652 RCPB-B271J-21C R652 RCPB-B271J-21C R695 RCPB-B272J-21C R696 RCPB-B272J-21C R851 RCPB-B272J-21C R851 RCPB-B330J-21C R484 RCPB-B330J-21C R623 RCPB-B330J-21C R624 RCPB-B330J-21C R679 RCPB-B330J-21C R685 RCPB-B330J-21C R686 RCPB-B330J-21C R687 RCPB-B330J-21C R699 RCPB-B330J-21C R725 RCPB-B330J-21C R732 RCPB-B330J-21C R732 RCPB-B330J-21C R736 RCPB-B330J-21C R736 RCPB-B330J-21C R756 RCPB-B330J-21C R757 RCPB-B330J-21C R770 RCPB-B330J-21C R771 RCPB-B330J-21C R775 RCPB-B330J-21C R776 RCPB-B330J-21C R777 RCPB-B330J-21C R777 RCPB-B330J-21C R790 RCPB-B330J-21C R794 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R797 RCPB-B330J-21C R852 RCPB-B330J-21C R853 RCPB-B330J-21C R855 RCPB-B330J-21C R876 RCPB-B330J-21C R876 RCPB-B330J-21C	RESISTOR-CHIP C/FILM	22Mohm 1/10W 5% B 270ohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 2.7Kohm 1/10W 5% B 3.7Kohm 1/10W 5% B 3.3ohm 1/10W 5% B

D855 DCDR_B331 I_31C	RESISTOR-CHIP C/FILM	330ohm 1/10W 5% B
R762 RCPB-B332J-21C	RESISTOR-CHIP C/FILM	3.3Kohm 1/10W 5% B
R763 RCPR-R332.I-21C	RESISTOR-CHIP C/FILM	3.3Kohm 1/10W 5% B
R826 RCPB-B332J-21C	RESISTOR-CHIP C/FILM	3.3Kohm 1/10W 5% B
R649 RCPB-B392J-21C	RESISTOR-CHIP C/FILM	3.9Kohm 1/10W 5% B
D648 DCDR_B470 I_21C	RESISTOR-CHIP C/FILM	47ohm 1/10W 5% B
R651 RCPB-B470J-21C	RESISTOR-CHIP C/FILM	47ohm 1/10W 5% B
R601 RCPR-R471 I-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R602 RCPB-B4/1J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R605 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R607 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R608 RCPB-B471,J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R610 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R611 RCPR-R471 I-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R612 RCPB-B4/1J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R613 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R014 RCPB-B4/1J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R621 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R622 RCPR-R471.I-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R64/ RCPB-B4/1J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R713 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R722 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R723 RCPR-R471.I-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R728 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R729 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R735 RCPR-R471 I-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R/3/ RCPB-B4/1J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R742 RCPB-B471,J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	
R747 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R787 RCPR-R471.I-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R813 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R854 RCPR-R471 I-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R8/1 RCPB-B4/1J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R874 RCPB-B471,J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	
		470ohm 1/10W 5% B
R885 RCPB-B471J-21C	RESISTOR-CHIP C/FILM	470ohm 1/10W 5% B
R819 RCPR-R472 I-21C	DECISEO 01 UD 0/5U 14	4 717 1 4 /4 OM 507 D
11013 1101 0 04720 210	RESISTOR-CHIP C/FILM	4 /Kohm 1/10W 5% B
DO 40 DODD D 4701 040	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B
R846 RCPB-B472J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 4.7Kohm 1/10W 5% B
	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B
R650 RCPB-B473J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 47Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 47Kohm 1/10W 5% B 47Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 47Kohm 1/10W 5% B 47Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 460hm 1/10W 5% B 47Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B561J-21C R766 RCPB-B6R8J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B473J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B683J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R655 RCPB-B821J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B 820ohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B683J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R655 RCPB-B821J-21C	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B 820ohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B473J-21C R866 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B 820ohm 1/10W 5% B 82Kohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B473J-21C R866 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360 JK606 SKPH-00520-360	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B473J-21C R866 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360	RESISTOR-CHIP C/FILM	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B 820ohm 1/10W 5% B 82Kohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360 JK606 SKPH-00520-360 JK614 SKRC-00840-02P	RESISTOR-CHIP C/FILM SOCKET-PHONE MINIATURE JACK SOCKET-RCA	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B 82Kohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360 JK606 SKPH-00520-360 JK614 SKRC-00840-02P JK611 SKRC-01281-06P	RESISTOR-CHIP C/FILM SOCKET-PHONE MINIATURE JACK SOCKET-RCA PIN JACK BOARD	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B 82Cohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R667 RCPB-B821J-21C R668 RCPB-B821J-21C R668 RCPB-B821J-21C R669 SKPH-00400-360 JK614 SKRC-00840-02P JK611 SKRC-01281-06P	RESISTOR-CHIP C/FILM SOCKET-PHONE MINIATURE JACK SOCKET-RCA PIN JACK BOARD	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B 82Kohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360 JK606 SKPH-00520-360 JK614 SKRC-00840-02P JK611 SKRC-01281-06P	RESISTOR-CHIP C/FILM SOCKET-PHONE MINIATURE JACK SOCKET-RCA PIN JACK BOARD	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B 82Cohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R667 RCPB-B821J-21C R668 RCPB-B821J-21C R669 SKPH-00400-360 JK606 SKPH-00520-360 JK614 SKRC-01281-06P JK613 SKRC-01281-06P	RESISTOR-CHIP C/FILM RESISTOR-	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.80hm 1/10W 5% B 6.80hm 1/10W 5% B 820ohm 1/10W 5% B 820ohm 1/10W 5% B 82Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R667 RCPB-B821J-21C R668 RCPB-B821J-21C R668 RCPB-B821J-21C R669 SKPH-00400-360 JK606 SKPH-00520-360 JK614 SKRC-01281-06P JK613 SKRC-01281-06P JK613 SKRC-01281-06P JK613 SKRC-01281-06P	RESISTOR-CHIP C/FILM RESISTOR-	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.80hm 1/10W 5% B 6.80hm 1/10W 5% B 820ohm 1/10W 5% B 820ohm 1/10W 5% B 82Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R866 RCPB-B6R3J-21C R768 RCPB-B6R3J-21C R768 RCPB-B6R3J-21C R666 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360 JK606 SKPH-00520-360 JK614 SKRC-01281-06P JK613 SKRC-01281-06P Q638 TRTA-0008G-SD0 Q626 TRTA-0012Y-SD0	RESISTOR-CHIP C/FILM RESISTOR-	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 82Oohm 1/10W 5% B 82Kohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R846 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R667 RCPB-B821J-21C R668 RCPB-B821J-21C R668 RCPB-B821J-21C R669 SKPH-00400-360 JK606 SKPH-00520-360 JK614 SKRC-01281-06P JK613 SKRC-01281-06P JK613 SKRC-01281-06P JK613 SKRC-01281-06P	RESISTOR-CHIP C/FILM RESISTOR-	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.80hm 1/10W 5% B 6.80hm 1/10W 5% B 820ohm 1/10W 5% B 820ohm 1/10W 5% B 82Kohm 1/10W 5% B
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R866 RCPB-B6R3J-21C R766 RCPB-B6R3J-21C R768 RCPB-B6R3J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360 JK606 SKPH-00520-360 JK614 SKRC-01281-06P JK613 SKRC-01281-06P JK613 SKRC-01281-06P Q638 TRTA-0008G-SD0 Q626 TRTA-0012Y-SD0 Q603 TRTA-00940-SD0	RESISTOR-CHIP C/FILM RESISTOR-	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 82Oohm 1/10W 5% B 82Kohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R866 RCPB-B661J-21C R766 RCPB-B6R8J-21C R768 RCPB-B6R8J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360 JK614 SKRC-00840-02P JK611 SKRC-01281-06P JK613 SKRC-01281-06P Q638 TRTA-0008G-SD0 Q626 TRTA-0012Y-SD0 Q606 TRTA-00940-SD0	RESISTOR-CHIP C/FILM RESISTOR-	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 820ohm 1/10W 5% B 82Kohm 1/10W 5% B 82Kohm 1/10W 5% B </td
R650 RCPB-B473J-21C R653 RCPB-B473J-21C R831 RCPB-B473J-21C R832 RCPB-B473J-21C R832 RCPB-B473J-21C R833 RCPB-B473J-21C R834 RCPB-B473J-21C R835 RCPB-B473J-21C R836 RCPB-B473J-21C R837 RCPB-B473J-21C R838 RCPB-B473J-21C R839 RCPB-B473J-21C R840 RCPB-B473J-21C R841 RCPB-B473J-21C R841 RCPB-B473J-21C R842 RCPB-B473J-21C R866 RCPB-B6R3J-21C R766 RCPB-B6R3J-21C R768 RCPB-B6R3J-21C R768 RCPB-B821J-21C R666 RCPB-B821J-21C R666 RCPB-B821J-21C R890 RCPB-B821J-21C R890 RCPB-B823J-21C JK609 SKPH-00400-360 JK606 SKPH-00520-360 JK614 SKRC-01281-06P JK613 SKRC-01281-06P JK613 SKRC-01281-06P Q638 TRTA-0008G-SD0 Q626 TRTA-0012Y-SD0 Q603 TRTA-00940-SD0	RESISTOR-CHIP C/FILM RESISTOR-	4.7Kohm 1/10W 5% B 47Kohm 1/10W 5% B 6.8ohm 1/10W 5% B 6.8ohm 1/10W 5% B 82Oohm 1/10W 5% B 82Kohm 1/10W 5% B </td

0600	TDTA 00040 CD0	TRANSISTOR R II FREO	KDA107M W/DECICE TOOOM
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTA-00940-SD0	TRANSISTOR P-H FREQ	KRA107M W/RESIST TO92M
	TRTC-0016G-SD0	TRANSISTOR N-H FREQ	KTC3198-GR TO92
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
	TRTC-01700-SD0 TRTC-01700-SD0	TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
		TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M
	TRTC-01700-SD0		
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M
	TRTC-01700-SD0 TRTC-01700-SD0	TRANSISTOR N-H FREQ TRANSISTOR N-H FREQ	
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M KRC107M W/RESIST TO92M
	TRTC-01700-SD0	TRANSISTOR N-H FREQ	KRC107M W/RESIST TO92M
	TRTC-02050-SD0	TRANSISTOR N-H FREQ	KRC120M W/RESIST TO92M
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q618	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q619	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q620	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q622	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
Q639	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
		TRANSISTOR N-L FREQ	KTD-1302 TO92
		TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
	TRTD-00200-SD0	TRANSISTOR N-L FREQ	KTD-1302 TO92
_	UM08-D1073-000	WIRE-ASS'Y	1533/2547#28 GRY-250 13P 1533/2547#28 GRY-220 15P
	UM08-F1076-000 UM08-F1077-000	WIRE-ASS'Y	1533/2547#28 GRY-220 15P
CNOTO		WIRE-ASS'Y WIRE-ASS'Y	1007#26/1533#28 BRN-400 6P
CN610	U408-80845-Z50	WIER ASS'Y	4PH-4PH 1533#28 GY 450
_	U608-01745-T10	WIRE-ASS'Y	1007#26 BLK-45 6P
		WIER ASS'Y	7PH-7PH 1007#26 BL/BK 340
			1007#22 VIT-160 8P
		WIRE-ASS'Y	1007#22 GRY-250 9P
011007	0010 0111020 200	VIII / 100 1	1007 11 22 3111 200 01
	V ID E O		
OCNUM		MATDES	MATSPC
		CAPACITOR CHIP/MULT	10PF D 50V Z B
C344	CCMB-J100D-0BZ	CAPACITOR CHIP/MULT	10PF D 50V Z B
		CAPACITOR CHIP/MULT	10PF D 50V Z B
C316	CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
		CAPACITOR CHIP/MULT	100PF J 50V Z B
		CAPACITOR CHIP/MULT	100PF J 50V Z B
		CAPACITOR CHIP/MULT	100PF J 50V Z B
		CAPACITOR CHIP/MULT	100PF J 50V Z B
		CAPACITOR CHIP/MULT	100PF J 50V Z B
		CAPACITOR CHIP/MULT	100PF J 50V Z B
		CAPACITOR CHIP/MULT	100PF J 50V Z B
		CAPACITOR CHIP/MULT	100PF J 50V Z B
C3328	CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B

ELECTRICAL PART LIST

C3329 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C333 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3330 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3331 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3332 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C334 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C335 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3379 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3380 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3381 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3382 CCMB-J101J-0BZ		100PF J 50V Z B
C3383 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3384 CCMB-J101J-0BZ		100PF J 50V Z B
C3385 CCMB-J101J-0BZ		100PF J 50V Z B
C3386 CCMB-J101J-0BZ		100PF J 50V Z B
C3387 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3388 CCMB-J101J-0BZ		100PF J 50V Z B
C3389 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3390 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT CAPACITOR CHIP/MULT	100PF J 50V Z B 100PF J 50V Z B
C3391 CCMB-J101J-0BZ C3392 CCMB-J101J-0BZ		
C3392 CCMB-J101J-0BZ		
C3394 CCMB-J101J-0BZ		100PF J 50V Z B 100PF J 50V Z B
C3410 CCMB-J101J-0BZ		100PF J 50V Z B
C370 CCMB-J101J-0BZ		100PF J 50V Z B
C371 CCMB-J101J-0BZ		100PF J 50V Z B
C371 CCMB 31013 0BZ		100PF J 50V Z B
C385 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C386 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C387 CCMB-J101J-0BZ		100PF J 50V Z B
C3334 CCMB-J101J-0BZ		100PF J 50V Z B
C3335 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3336 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3337 CCMB-J101J-0BZ		100PF J 50V Z B
C3338 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3339 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3340 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3341 CCMB-J101J-0BZ	CAPACITOR CHIP/MULT	100PF J 50V Z B
C3300 CCMB-J102J-0BZ	CAPACITOR CHIP/MULT	1000PF J 50V Z B
C381 CCMB-J102J-0BZ	CAPACITOR CHIP/MULT	1000PF J 50V Z B
C394 CCMB-J102J-0BZ		1000PF J 50V Z B
	CAPACITOR CHIP/MULT	1000PF J 50V Z B
	CAPACITOR CHIP/MULT	1000PF J 50V Z B
	CAPACITOR CHIP/MULT	0.01uF Z 50V F B
	CAPACITOR CHIP/MULT	0.01uF Z 50V F B
	CAPACITOR CHIP/MULT	0.01uF Z 50V F B
C322 CCMB-J103Z-0BF		0.01uF Z 50V F B
C395 CCMB-J103Z-0BF		0.01uF Z 50V F B
C357 CCMB-J104Z-0BF		0.1uF Z 50V F B
C362 CCMB-J104Z-0BF		0.1uF Z 50V F B 0.1uF Z 50V F B
C3306 CCMB-J104Z-0BF C3308 CCMB-J104Z-0BF		0.1uF Z 50V F B 0.1uF Z 50V F B
C3310 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3312 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3314 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3316 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3319 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3321 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3323 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3324 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3404 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3405 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3407 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3409 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3415 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3417 CCMB-J104Z-0BF		0.1uF Z 50V F B
C352 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
C354 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
C359 CCMB-J104Z-0BF		0.1uF Z 50V F B
C365 CCMB-J104Z-0BF	CAPACITOR CHIP/MULT	0.1uF Z 50V F B
C373 CCMB-J104Z-0BF		0.1uF Z 50V F B
C3406 CCMB-J152J-0BZ		1500PF J 50V Z B
COACO COMP HEAL OFT	CAPACITOR CHIP/MULT	1500PF J 50V Z B
	CAPACITOR CHIP/MULT	18PE 150V C B

C389 CCMB-J180J-0BC CAPACITOR CHIP/MULT

18PF J 50V C B

C3302	CCMB1222.1-0B7	CAPACITOR CHIP/MULT	2200PF	.1	50V Z B	
		CAPACITOR CHIP/MULT	2200PF		J 50V Z B	
C388	CCMB-J330J-0BC	CAPACITOR CHIP/MULT	33PF	J	50V C B	
C393	CCMR1472K-0RR	CAPACITOR CHIP/MULT	4700PF	K	50V X7R B	
	CCMB-J560J-0BZ	CAPACITOR CHIP/MULT			50V Z B	
C339	CCMB-J561J-0BZ	CAPACITOR CHIP/MULT	560PF	J	50V Z B	
C3399	CCMB-J561J-0BZ	CAPACITOR CHIP/MULT	560PF	J	50V Z B	
	CCTT-J100D-0BC	CAPACITOR CERAMIC	10PF		50V CHT	
C3301	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF	М	10V 5x11	Τ
C361	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF	Μ	10V 5x11	Т
	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF	М	10V 5x11	Т
C382	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF	М	10V 5x11	Τ
C392	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF	Μ	10V 5x11	Τ
	CEET-D101M-CI0	CAPACITOR E/ALUMINUM	100uF	М	10V 5x11	Т
	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	M		Т
C305	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	Μ	10V 6.3x11	Τ
C309	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	М	10V 6.3x11	Т
	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	M		Т
C314	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	М	10V 6.3x11	Τ
C315	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	Μ	10V 6.3x11	Т
	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	М	10V 6.3x11	Ť
C326	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	М	10V 6.3x11	Τ
C3305	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	М	10V 6.3x11	Т
C367	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	М		Т
C368	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	М		Τ
C369	CEET-D221M-DI0	CAPACITOR E/ALUMINUM	220uF	Μ	10V 6.3x11	Т
	CEET-D471M-FI1	CAPACITOR E/ALUMINUM	470uF	М		UΤ
	CEET-D471M-FI1	CAPACITOR E/ALUMINUM	470uF	M		U T
C342	CEET-D471M-FI1	CAPACITOR E/ALUMINUM	470uF	М	10V 8x11.5	UT
C358	CEET-D471M-FI1	CAPACITOR E/ALUMINUM	470uF	М	10V 8x11.5	UΤ
						T
		CAPACITOR E/ALUMINUM	10uF	M	16V 3.5x5	
C304	CEET-E100M-AC0	CAPACITOR E/ALUMINUM	10uF	M	16V 3.5x5	Τ
C307	CEET-E100M-AC0	CAPACITOR E/ALUMINUM	10uF	М	16V 3.5x5	Τ
		CAPACITOR E/ALUMINUM	10uF	М	16V 3.5x5	Т
		CAPACITOR E/ALUMINUM	10uF	M	16V 3.5x5	Τ
C313	CEET-E100M-AC0	CAPACITOR E/ALUMINUM	10uF	M	16V 3.5x5	Τ
C323	CEET-E100M-AC0	CAPACITOR E/ALUMINUM	10uF	М	16V 3.5x5	Τ
		CAPACITOR E/ALUMINUM	10uF	M	16V 3.5x5	Τ
C3400	CEET-E100M-AC0	CAPACITOR E/ALUMINUM	10uF	M	16V 3.5x5	Τ
C355	CEET-E100M-AC0	CAPACITOR E/ALUMINUM	10uF	М	16V 3.5x5	Τ
		CAPACITOR E/ALUMINUM	10uF	М	16V 3.5x5	Ť
C363	CEET-E100M-AC0	CAPACITOR E/ALUMINUM	10uF	M	16V 3.5x5	Τ
C3418	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF	M	25V 5x11	Τ
	CEET-F330M-CI0	CAPACITOR E/ALUMINUM	33uF	М	25V 5x11	Τ
_	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	M	25V 5x11	Τ
C3309	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	M	25V 5x11	Τ
C3311	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	Μ	25V 5x11	Τ
	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	М		T
C3315	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	M	25V 5x11	Τ
C3317	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	M	25V 5x11	Τ
C3318	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	М	25V 5x11	Τ
	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	M		Т
C3403	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	M	25V 5x11	Τ
C3414	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	Μ	25V 5x11	Τ
	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	М	25V 5x11	T
	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	M	25V 5x11	Τ
C356	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	M	25V 5x11	Τ
	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	М	25V 5x11	Т
	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	M	25V 5x11	Τ
C3320	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	Μ	25V 5x11	Τ
	CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF	М	25V 5x11	Τ
	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF	М	35V 5x11	Ť
	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF	M	35V 5x11	Τ
C391	CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF	Μ	35V 5x11	Τ
	CEET-JR33M-CI0	CAPACITOR E/ALUMINUM	0.33uF		50V 5x11	Т
					50V 5x11	
	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF	М		T
C375	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF	М	50V 5x11	Τ
C376	CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF	Μ	50V 5x11	Τ
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C377 CEET-J1R0M-CI0 CAPACITOR E/ALUMINUM
                                           1.0uF M 50V 5x11
                                                                Т
 C378 CEET-J1R0M-CIO CAPACITOR E/ALUMINUM
                                            1.0uF M 50V 5x11
                                                                Т
 C379 CEET-J1R0M-CIO CAPACITOR E/ALUMINUM
                                            1.0uF M 50V 5x11
                                                                Т
 C380 CEET-J1R0M-CI0 CAPACITOR E/ALUMINUM
                                            1.0uF M 50V 5x11
                                                                Т
 C384 CEET-J1R0M-CIO CAPACITOR E/ALUMINUM
                                            1.0uF M 50V 5x11
                                                                Т
 C399 CEET-J1R0M-CIO CAPACITOR E/ALUMINUM
                                            1.0uF M 50V 5x11
                                                                Т
 C319 CEET-J100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                  M 50V 5x11
                                                                Т
 C330 CEET-J100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                  M 50V 5x11
                                                                Τ
 C350 CEET-J2R2M-CIO CAPACITOR E/ALUMINUM
                                             2.2uF M 50V 5x11
                                                                Т
C3411 CEET-J4R7M-CIO CAPACITOR E/ALUMINUM
                                             4.7uF M 50V 5x11
                                                                Т
 D302 DDTS-00070-SO0 DIODE-SI
                                             1SS133 (40V 0.11A) DO-40 T
 D303 DDTS-00070-S00 DIODE-SI
                                             1SS133 (40V 0.11A) DO-40 T
 D304 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D305 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D306 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D307 DDTS-00070-S00 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D308 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D309 DDTS-00070-S00 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D310 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D311 DDTS-00070-S00 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
 D312 DDTS-00070-SO0 DIODE-SI
                                            1SS133 (40V 0.11A) DO-40 T
IC301 ICAP-00410-SG0 IC 5-INPUT VIDEO SW
                                            NJM2296M DMP16
IC302 ICAP-00410-SG0 IC 5-INPUT VIDEO SW
                                            NJM2296M DMP16
IC303 ICAP-00410-SG0 IC 5-INPUT VIDEO SW
                                            NJM2296M DMP16
IC313 ICCM-01300-SD0 IC VOLUME CONTROL IC
                                            KIC9459F SOP24
IC309 ICCM-01850-S90 IC SCREEN CHAR DISPL
                                            M35017-XXXSP/FP
IC304 ICDG-02550-TC0 IC MULTIPLEXER
                                            MC14053B SOP16
IC308 ICDG-02550-TC0 IC MULTIPLEXER
                                            MC14053B SOP16
IC305 ICLN-04720-SB0 IC 8BIT SHIF/STORE
                                            BU4094BC SOP16
IC306 ICLN-04720-SB0 IC 8BIT SHIF/STORE
                                             BU4094BC SOP16
IC310 ICLN-04730-SB0 IC SYNC SEPARATOR
                                             BA7046 SOP8
IC307 ICLN-04740-SB0 IC 3CHANNEL 750HM
                                             BA7660 SOP16
IC316 ICOP-00134-SG0 IC DUAL OP AMP
                                             NJM4558M SOP8
 L301 KI0T-4220K-003 COIL-INDUCTOR
                                             22uH M LA 50 T L 02
 L302 KI0T-4220K-003
                    COIL-INDUCTOR
                                             22uH M LA 50 T L 02
 L303 KI0T-4220K-003
                    COIL-INDUCTOR
                                            22uH M LA 50 T L 02
 L304 KI0T-4220K-003
                    COIL-INDUCTOR
                                            22uH M LA 50 T L 02
JH302 KNCW-00160-FS9 CONNECTOR-WAFER
                                            53015-1510 2mm-WHT
JH301 KNCW-00240-DT9 CONNECTOR-WAFER
                                            53014-13 2.0mm WHT
JW302 KNCW-00240-7T9 CONNECTOR-WAFER
                                             53014-07 2.0mm WHT
JH303 KNCW-00760-ITO CONNECTOR-WAFER
                                             8370-181 1.25mm TOP 18P
 L307 KORB-00090-000 CHIP FERRITE BEADS
                                            HB-1T2012-221
 L305 KORB-00110-000 EMI BEAD FILTER
                                            ATS3580I(MATERIAL:M3L)
 L306 KORB-00110-000 EMI BEAD FILTER
                                            ATS3580I(MATERIAL:M3L)
 X320 KTOS-00200-358 OSCILLATOR
                                            3.579545MHz 8PIN DIP
     PCWR-02130-21L PCB DOUBLE
                                            A2R-213 247x197x1.6t
R3400 RCPB-B000J-21C RESISTOR-CHIP C/FILM
                                            0ohm 1/10W 5% B
R3402 RCPB-B000J-21C RESISTOR-CHIP C/FILM
                                             0ohm
                                                    1/10W 5% B
 R301 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm 1/10W 5% B
 R305 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm 1/10W 5%
                                                              R
                                                    1/10W 5%
 R309 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm
                                                              В
 R319 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm
                                                    1/10W 5%
                                                              В
R3404 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm
                                                    1/10W 5%
                                                              В
R3408 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm
                                                    1/10W 5%
                                                              В
 R360 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm
                                                    1/10W 5%
                                                              В
 R370 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm
                                                    1/10W 5%
                                                              В
 R372 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm
                                                    1/10W 5%
                                                              B
 R374 RCPB-B100J-21C RESISTOR-CHIP C/FILM
                                             10ohm
                                                    1/10W 5% B
R3370 RCPB-B101J-21C RESISTOR-CHIP C/FILM
                                             100ohm 1/10W 5% B
R3301 RCPB-B102J-21C RESISTOR-CHIP C/FILM
                                             1Kohm 1/10W 5% B
                                                    1/10W 5%
R3302 RCPB-B102J-21C RESISTOR-CHIP C/FILM
                                             1Kohm
                                                              R
R3309 RCPB-B102J-21C RESISTOR-CHIP C/FILM
                                                    1/10W 5% B
                                             1Kohm
R3374 RCPB-B102J-21C RESISTOR-CHIP C/FILM
                                             1Kohm
                                                    1/10W 5%
                                                              R
R3383 RCPB-B102J-21C RESISTOR-CHIP C/FILM
                                             1Kohm
                                                    1/10W 5%
                                                              R
R3411 RCPB-B102J-21C RESISTOR-CHIP C/FILM
                                             1Kohm
                                                    1/10W 5%
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R3412	BCPB-B102.I-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
		RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
		RESISTOR-CHIP C/FILM	1Kohm	1/10W		В
		RESISTOR-CHIP C/FILM	1Kohm	1/10W		В
R353	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
R354	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
R355	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
R357	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
		RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm		5%	В
	RCPB-B102J-21C				5%	В
		RESISTOR-CHIP C/FILM	1Kohm			
	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W		В
	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W		В
R394	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
R395	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
R396	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
R397	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W	5%	В
	RCPB-B102J-21C	RESISTOR-CHIP C/FILM	1Kohm	1/10W		В
	RCPB-B102J-21C		1Kohm	1/10W		В
		RESISTOR-CHIP C/FILM	10Kohm	1/10W		В
		RESISTOR-CHIP C/FILM	10Kohm	1/10W		В
		RESISTOR-CHIP C/FILM	10Kohm	1/10W		В
	RCPB-B103J-21C		10Kohm	1/10W		В
R325	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
R326	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
R329	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
R331	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
R3310	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W		В
	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
	RCPB-B103J-21C		10Kohm	1/10W	5%	В
		RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
R346	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
R362	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
R384	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
R385	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
R386	RCPB-B103J-21C	RESISTOR-CHIP C/FILM	10Kohm	1/10W	5%	В
	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm			
	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm			
	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm			
	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm			
	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm			
	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm			
	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm			
	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm			
R3405	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm	1/10W	5%	В
R3414	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm	1/10W	5%	В
R348	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm	1/10W	5%	В
R358	RCPB-B104J-21C	RESISTOR-CHIP C/FILM	100Kohm	1/10W	5%	В
R359	RCPB-B121J-21C	RESISTOR-CHIP C/FILM	120ohm	1/10W	5%	В
	RCPB-B124J-21C	RESISTOR-CHIP C/FILM	120Kohm			
	RCPB-B151J-21C	RESISTOR-CHIP C/FILM	150ohm	1/10W		В
	RCPB-B154J-21C	RESISTOR-CHIP C/FILM	150Kohm			
	RCPB-B181J-21C	RESISTOR-CHIP C/FILM	180ohm	1/10W		В
	RCPB-B181J-21C	RESISTOR-CHIP C/FILM	180ohm	1/10W		
	RCPB-B220J-21C	RESISTOR-CHIP C/FILM	22ohm	1/10W		В
	RCPB-B220J-21C	RESISTOR-CHIP C/FILM	22ohm	1/10W		
	RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm			
R3306	RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm	1/10W	5%	В
R3313	RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2 Kohm	1/10W	5%	В
R3314	RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm	1/10W	5%	В
R3319	RCPB-B222J-21C	RESISTOR-CHIP C/FILM	2.2Kohm	1/10W	5%	В

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R3320 RCPB-B222J-21C RESISTOR-CHIP C/FILM
                                             2.2Kohm 1/10W 5% B
R3325 RCPB-B222J-21C RESISTOR-CHIP C/FILM
                                             2.2Kohm 1/10W 5% B
                                             2.2Kohm 1/10W 5% B
R3326 RCPB-B222J-21C RESISTOR-CHIP C/FILM
                                             2.2Kohm 1/10W 5% B
R3415 RCPB-B222J-21C RESISTOR-CHIP C/FILM
                                             2.2Kohm 1/10W 5% B
R350 RCPB-B222J-21C RESISTOR-CHIP C/FILM
                                             2.2Kohm 1/10W 5% B
R3500 RCPB-B222J-21C RESISTOR-CHIP C/FILM
R3600 RCPB-B222J-21C RESISTOR-CHIP C/FILM
                                             2.2Kohm 1/10W 5% B
R366 RCPB-B222J-21C RESISTOR-CHIP C/FILM
                                             2.2Kohm 1/10W 5% B
R3372 RCPB-B3R3J-21C RESISTOR-CHIP C/FILM
                                             3.3ohm 1/10W 5% B
R3406 RCPB-B330J-21C RESISTOR-CHIP C/FILM
                                             330hm
                                                    1/10W 5% B
R3407 RCPB-B330J-21C RESISTOR-CHIP C/FILM
                                             330hm
                                                    1/10W 5% B
R3417 RCPB-B330J-21C RESISTOR-CHIP C/FILM
                                             330hm
                                                    1/10W 5% B
R3418 RCPB-B330J-21C RESISTOR-CHIP C/FILM
                                             33ohm 1/10W 5% B
                                             330ohm 1/10W 5% B
R3376 RCPB-B331J-21C RESISTOR-CHIP C/FILM
                                             3.3Kohm 1/10W 5% B
R341 RCPB-B332J-21C RESISTOR-CHIP C/FILM
                                             3.3Kohm 1/10W 5% B
R342 RCPB-B332J-21C RESISTOR-CHIP C/FILM
R343 RCPB-B332J-21C RESISTOR-CHIP C/FILM
                                             3.3Kohm 1/10W 5% B
R349 RCPB-B333J-21C RESISTOR-CHIP C/FILM
                                             33Kohm 1/10W 5% B
R3375 RCPB-B391J-21C RESISTOR-CHIP C/FILM
                                             390ohm 1/10W 5% B
R3336 RCPB-B471J-21C RESISTOR-CHIP C/FILM
                                             470ohm 1/10W 5% B
R3337 RCPB-B471J-21C RESISTOR-CHIP C/FILM
                                             470ohm 1/10W 5% B
R3338 RCPB-B471J-21C RESISTOR-CHIP C/FILM
                                             470ohm 1/10W 5% B
R3339 RCPB-B471J-21C RESISTOR-CHIP C/FILM
                                             470ohm 1/10W 5% B
R3340 RCPB-B471J-21C RESISTOR-CHIP C/FILM
                                             470ohm 1/10W 5% B
R3341 RCPB-B471J-21C RESISTOR-CHIP C/FILM
                                             470ohm 1/10W 5% B
R3342 RCPB-B471J-21C RESISTOR-CHIP C/FILM
                                             470ohm 1/10W 5% B
R3343 RCPB-B471J-21C RESISTOR-CHIP C/FILM
                                             470ohm 1/10W 5% B
R3349 RCPB-B473J-21C RESISTOR-CHIP C/FILM
                                             47Kohm 1/10W 5% B
R3350 RCPB-B473J-21C RESISTOR-CHIP C/FILM
                                             47Kohm 1/10W 5% B
R3354 RCPB-B473J-21C RESISTOR-CHIP C/FILM
                                             47Kohm 1/10W 5% B
R356 RCPB-B473J-21C RESISTOR-CHIP C/FILM
                                             47Kohm 1/10W 5% B
R3378 RCPB-B474J-21C RESISTOR-CHIP C/FILM
                                             470Kohm 1/10W 5% B
R3380 RCPB-B474J-21C RESISTOR-CHIP C/FILM
                                             470Kohm 1/10W 5% B
R3347 RCPB-B560J-21C RESISTOR-CHIP C/FILM
                                             56ohm 1/10W 5% B
R3353 RCPB-B560J-21C RESISTOR-CHIP C/FILM
                                             56ohm
                                                   1/10W 5% B
R3357 RCPB-B560J-21C RESISTOR-CHIP C/FILM
                                             56ohm 1/10W 5% B
R3348 RCPB-B563J-21C RESISTOR-CHIP C/FILM
                                             56Kohm 1/10W 5% B
R3351 RCPB-B563J-21C RESISTOR-CHIP C/FILM
                                             56Kohm 1/10W 5% B
R3356 RCPB-B563J-21C RESISTOR-CHIP C/FILM
                                             56Kohm 1/10W 5% B
R336 RCPB-B563J-21C RESISTOR-CHIP C/FILM
                                             56Kohm 1/10W 5% B
R338 RCPB-B563J-21C RESISTOR-CHIP C/FILM
                                             56Kohm 1/10W 5% B
R340 RCPB-B563J-21C RESISTOR-CHIP C/FILM
                                             56Kohm 1/10W 5% B
R330 RCPB-B620J-21C REGISTER-CHIP C/FILM
                                             62ohm 1/10W 5% B
R332 RCPB-B620J-21C REGISTER-CHIP C/FILM
                                             62ohm 1/10W 5% B
R339 RCPB-B680J-21C RESISTOR-CHIP C/FILM
                                                   1/10W 5% B
                                             68ohm
R334 RCPB-B680J-21C RESISTOR-CHIP C/FILM
                                                    1/10W 5% B
                                             680hm
R335 RCPB-B680J-21C RESISTOR-CHIP C/FILM
                                             68ohm
                                                    1/10W 5% B
R347 RCPB-B680J-21C RESISTOR-CHIP C/FILM
                                             68ohm
                                                    1/10W 5% B
R337 RCPB-B680J-21C RESISTOR-CHIP C/FILM
                                             68ohm
                                                    1/10W 5% B
R361 RCPB-B680J-21C RESISTOR-CHIP C/FILM
                                             68ohm
                                                    1/10W 5% B
R364 RCPB-B683J-21C RESISTOR-CHIP C/FILM
                                             68Kohm 1/10W 5% B
R381 RCPB-B750J-21C RESISTOR-CHIP C/FILM
                                             75ohm 1/10W 5% B
R382 RCPB-B750J-21C RESISTOR-CHIP C/FILM
                                             75ohm
                                                    1/10W 5% B
R383 RCPB-B750J-21C RESISTOR-CHIP C/FILM
                                             75ohm
                                                    1/10W 5% B
R387 RCPB-B750J-21C RESISTOR-CHIP C/FILM
                                             75ohm
                                                    1/10W 5% B
R388 RCPB-B750J-21C RESISTOR-CHIP C/FILM
                                             75ohm
                                                    1/10W 5% B
R389 RCPB-B750J-21C RESISTOR-CHIP C/FILM
                                             75ohm
                                                    1/10W 5% B
R390 RCPB-B750J-21C RESISTOR-CHIP C/FILM
                                             75ohm
                                                    1/10W 5% B
R391 RCPB-B750J-21C RESISTOR-CHIP C/FILM
                                             75ohm
                                                    1/10W 5% B
R392 RCPB-B750J-21C RESISTOR-CHIP C/FILM
                                             75ohm
                                                    1/10W 5% B
R302 RCPB-B820J-21C RESISTOR-CHIP C/FILM
                                             82ohm
                                                    1/10W 5% B
R303 RCPB-B820J-21C RESISTOR-CHIP C/FILM
                                             82ohm
                                                    1/10W 5% B
R304 RCPB-B820J-21C RESISTOR-CHIP C/FILM
                                             82ohm
                                                    1/10W 5% B
R306 RCPB-B820J-21C RESISTOR-CHIP C/FILM
                                             82ohm
                                                    1/10W 5% B
R307 RCPB-B820J-21C RESISTOR-CHIP C/FILM
                                                    1/10W 5% B
                                            82ohm
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R308 RCPB-B820J-21C RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R310 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R311 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R312 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R314 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R317 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R318 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R320 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R321 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R322 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R324 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R327 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
 R328 RCPB-B820J-21C
                     RESISTOR-CHIP C/FILM
                                              82ohm
                                                     1/10W 5%
R3303 RCPB-B821J-21C
                     RESISTOR-CHIP C/FILM
                                              820ohm 1/10W 5%
R3311 RCPB-B821J-21C
                     RESISTOR-CHIP C/FILM
                                              820ohm
                                                     1/10W 5%
R3316 RCPB-B821J-21C
                     RESISTOR-CHIP C/FILM
                                              820ohm
                                                     1/10W 5%
R3317 RCPB-B821J-21C
                     RESISTOR-CHIP C/FILM
                                              820ohm
                                                     1/10W 5%
R3322 RCPB-B821J-21C
                     RESISTOR-CHIP C/FILM
                                              820ohm
                                                     1/10W 5%
R3323 RCPB-B821J-21C
                     RESISTOR-CHIP C/FILM
                                              820ohm
                                                     1/10W 5%
R3328 RCPB-B821J-21C
                     RESISTOR-CHIP C/FILM
                                              820ohm
                                                     1/10W 5%
R3355 RCPB-B821J-21C
                     RESISTOR-CHIP C/FILM
                                              820ohm 1/10W 5%
 R363 RCPB-B822J-21C
                     RESISTOR-CHIP C/FILM
                                              8.2Kohm 1/10W 5%
 R365 RCPB-B822J-21C
                     RESISTOR-CHIP C/FILM
                                              8.2Kohm 1/10W 5%
 R378 RCPB-B824J-21C
                     RESISTOR-CHIP C/FILM
                                              820Kohm 1/10W 5% B
 R379 RCPB-B824J-21C
                     RESISTOR-CHIP C/FILM
                                              820Kohm 1/10W 5% B
 R380 RCPB-B824J-21C
                     RESISTOR-CHIP C/FILM
                                              820Kohm 1/10W 5% B
JW320 RJWT-00000-AA0
                     RESISTOR-JUMPER WIRE
                                              60mm-TX123 F
JW321 RJWT-00000-AA0
                     RESISTOR-JUMPER WIRE
                                              60mm-TX123 F
JW331 RJWT-00000-AA0
                     RESISTOR-JUMPER WIRE
                                              60mm-TX123 F
JW332 RJWT-00000-AA0
                     RESISTOR-JUMPER WIRE
                                              60mm-TX123 F
JW347 RJWT-00000-AA0
                     RESISTOR-JUMPER WIRE
                                              60mm-TX123 F
JW348 RJWT-00000-AA0
                     RESISTOR-JUMPER WIRE
                                              60mm-TX123 F
JK310 SKRC-00612-03P
                     PIN JACK BOARD
                                              JF030039FG
JK312 SKRC-00612-03P
                     PIN JACK BOARD
                                              JF030039FG
JK313 SKRC-00612-03P
                     PIN JACK BOARD
                                              JE030039EG
JK301 SKRC-00881-000
                     PIN JACK BOARD
                                              C5016031JG
JK302 SKRC-00881-000
                     PIN JACK BOARD
                                              C5016031JG
JK303 SKRC-00881-000
                     PIN JACK BOARD
                                              C5016031JG
JK304 SKRC-00881-000
                     PIN JACK BOARD
                                              C5016031JG
JK305 SKRC-00881-000
                     PIN JACK BOARD
                                              C5016031JG
JK306 SKRC-00881-000
                     PIN JACK BOARD
                                              C5016031JG
JK308 SKRC-00881-000
                     PIN JACK BOARD
                                              C5016031JG
JK315 SKRC-01274-02P
                     PIN JACK BOARD
                                              JS020056KG
JK316 SKRC-01275-02P
                     PIN JACK BOARD
                                              JS020056LG
JK317 SKRC-01276-02P
                     PIN JACK BOARD
                                              JS020056QG
JK318 SKRC-01277-02P
                     PIN JACK BOARD
                                              JS020056MG
JK321 SKRC-01292-04P
                     PIN JACK BOARD
                                              JE040171MG
JK320 SKRC-01293-04P
                     PIN JACK BOARD
                                              JE040171LG
 Q334 TRBC-01770-SD0 TRANSISTOR N-H FREQ
                                              KTC3875 SOT-23
 Q335 TRBC-01770-SD0 TRANSISTOR N-H FREQ
                                              KTC3875 SOT-23
 Q336 TRBC-01770-SD0 TRANSISTOR N-H FREQ
                                              KTC3875 SOT-23
 Q325 TRSA-01360-SD0 TRANSISTOR P-H FREQ
                                              KRA107S SOT-23
 Q314 TRTA-0008G-SD0 TRANSISTOR P-H FREQ
                                              KTA1266-GR
                                                              TO92
 Q317 TRTA-0008G-SD0 TRANSISTOR P-H FREQ
                                              KTA1266-GR
                                                              TO92
 Q318 TRTA-0008G-SD0 TRANSISTOR P-H FREQ
                                              KTA1266-GR
                                                              TO92
 Q319 TRTA-0008G-SD0 TRANSISTOR P-H FREQ
                                              KTA1266-GR
                                                              TO92
 Q322 TRTA-0008G-SD0 TRANSISTOR P-H FREQ
                                              KTA1266-GR
                                                              TO92
 Q301 TRTA-00820-SB0 TRANSISTOR P-H FREQ
                                              2SA933AS SPT
 Q302 TRTA-00940-SD0 TRANSISTOR P-H FREQ
                                              KRA107M W/RESIST TO92M
                                              KRA107M W/RESIST TO92M
 Q311 TRTA-00940-SD0 TRANSISTOR P-H FREQ
 Q304 TRTC-0002B-SD0 TRANSISTOR TO92
                                              KTC2874(TO92)
 Q305 TRTC-0002B-SD0 TRANSISTOR TO92
                                              KTC2874(TO92)
 Q306 TRTC-0002B-SD0 TRANSISTOR TO92
                                              KTC2874(TO92)
 Q307 TRTC-0002B-SD0 TRANSISTOR TO92
                                              KTC2874(TO92)
 Q313 TRTC-0002B-SD0 TRANSISTOR TO92
                                              KTC2874(TO92)
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Q315 TRTC-0016G	-SD0 TRANSIS	STOR N-H FREQ	KTC3198-	GR TO92
Q316 TRTC-0016G	-SD0 TRANSIS	STOR N-H FREQ	KTC3198-	GR TO92
Q324 TRTC-01090-	-SB0 TRANSIS	STOR N-H FREQ	DTC114YS	A W/RESIST SPT
Q303 TRTC-01700-	-SD0 TRANSIS	STOR N-H FREQ	KRC107M	W/RESIST TO92M
Q308 TRTC-01700-	-SD0 TRANSIS	STOR N-H FREQ	KRC107M	W/RESIST TO92M
Q309 TRTC-01700-	-SD0 TRANSIS	STOR N-H FREQ	KRC107M	W/RESIST TO92M
Q310 TRTC-01700-	-SD0 TRANSIS	STOR N-H FREQ	KRC107M	W/RESIST TO92M
Q320 TRTC-01700-	-SD0 TRANSIS	STOR N-H FREQ	KRC107M	W/RESIST TO92M
Q321 TRTC-01700-	-SD0 TRANSIS	STOR N-H FREQ	KRC107M	W/RESIST TO92M
Q323 TRTC-01700-	-SD0 TRANSIS	STOR N-H FREQ	KRC107M	W/RESIST TO92M
Q312 TRTD-00200-	-SD0 TRANSIS	STOR N-L FREQ	KTD-1302	TO92
Q326 TRTD-00200-	-SD0 TRANSIS	STOR N-L FREQ	KTD-1302	TO92
Q327 TRTD-00200-	-SD0 TRANSIS	STOR N-L FREQ	KTD-1302	TO92
Q328 TRTD-00200-	-SD0 TRANSIS	STOR N-L FREQ	KTD-1302	TO92
Q329 TRTD-00200-	-SD0 TRANSIS	STOR N-L FREQ	KTD-1302	TO92
Q330 TRTD-00200-	-SD0 TRANSIS	STOR N-L FREQ	KTD-1302	TO92
Q331 TRTD-00200-	-SD0 TRANSIS	STOR N-L FREQ	KTD-1302	TO92
Q332 TRTD-00200-	-SD0 TRANSIS	STOR N-L FREQ	KTD-1302	TO92
Q333 TRTD-00200-	-SD0 TRANSIS	STOR N-L FREQ	KTD-1302	TO92
JW301 UM08-F1075	-000 WIRE-A	.SS'Y	1533/2547	#28 GRY-160 15P
U1T1-0G514	-Z10 WIRE-A	.SS'Y	HIGH WRA	P#22 BLK-140 1P
JW303 U808-80819	-250 WIRE-A	.SS'Y	1533#28 G	GRY-190 8P

PWM/DSP		
LOCNUM SONITM	MATDES	MATSPC
C1233 CACS-S472M-180	CAPACITOR AC	DE7150 F472MVA1 250V BS415
C1238 CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C1203 CCMB-F102K-0AE	CAPACITOR CHIP/MULT	1000PF K 25V B B
C1204 CCMB-F102K-0AE	CAPACITOR CHIP/MULT	1000PF K 25V B B
C1205 CCMB-F102K-0AE		1000PF K 25V B B
C1206 CCMB-F102K-0AE		1000PF K 25V B B
C1207 CCMB-F102K-0AE		1000PF K 25V B B
C1208 CCMB-F102K-0AE		1000PF K 25V B B
C1209 CCMB-F102K-0AE		1000PF K 25V B B
C1210 CCMB-F102K-0AE		1000PF K 25V B B
C1080 CCMB-F103K-0AE		0.01uF K 25V B B
C1082 CCMB-F103K-0AE		0.01uF K 25V B B
C1113 CCMB-F103K-0AE		0.01uF K 25V B B
C1226 CCMB-F103K-0AE		0.01uF K 25V B B
C1072 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1074 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1076 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1077 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1078 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1081 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1085 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1087 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1089 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1095 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1096 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1097 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1098 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1099 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1100 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1102 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1103 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1106 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1108 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1109 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1112 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1116 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1117 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1119 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1121 CCMB-F104Z-0AF		0.1uF Z 25V F B
C1123 CCMB-F104Z-0AF C1125 CCMB-F104Z-0AF		0.1uF Z 25V F B 0.1uF Z 25V F B
CTTZS COMB-FTU4Z-UAF	CAFACITON CHIP/MULT	U.TUF Z ZOV F B

C1129 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1133 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1133 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1135 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1136 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1136 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1136 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1137 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1137 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1138 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1139 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1282 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1282 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1282 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1285 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1286 CCMB=F104Z-OAF CAPACITOR CHIP/M	C1107 CCMD F1047 04F		0.105 7.057 5 5	
C1133 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1154 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1155 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1156 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1156 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1162 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1163 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1163 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1170 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1171 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1171 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1171 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1172 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1173 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1174 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1175 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1176 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1177 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1178 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1178 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1178 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1178 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1179 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C1270 CCMB=F104Z-OAF CAPACITOR CHIP/M				
C1155 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1162 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1163 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1163 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1163 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1170 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1171 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1171 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1178 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1179 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1179 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1180 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1181 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1181 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1181 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1181 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1191 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1191 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1281 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1282 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1282 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1285 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1285 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1251 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1252 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1253 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1254 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1255 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1256 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1261 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1262 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1263 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1263 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1264 CCMB-F104Z-0AF CAPACITOR CHIP/M				
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C1171 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1171 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1173 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1174 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1175 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1176 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1183 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1185 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1186 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1187 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1189 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1189 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1189 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1193 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1281 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1282 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1281 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1252 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1253 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1254 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1255 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1256 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1256 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1257 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1268 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1261 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1262 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1263 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1264 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1265 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1266 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1267 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1268 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1269 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1261 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1262 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1263 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1264 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C1265 CCMB-F104Z-0AF CAPACITOR CHIP/M				
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C11183 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1185 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1186 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1187 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1189 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1189 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1191 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1191 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1193 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1228 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1228 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1232 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1252 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1252 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1255 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1256 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1257 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1268 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1269 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1261 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1261 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1262 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1263 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1264 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1265 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1266 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1267 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1268 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1269 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1261 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1262 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1263 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1264 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1265 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1265 CCMB-F104Z-OAF CAPACITOR CHIP/			0.1uF Z 25V F B	
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C1191 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1232 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1232 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1232 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1252 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1255 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1256 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1261 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1261 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1263 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1266 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z.25V F B C1260 CCMB=F104Z-OAF CAPACITOR CHIP/MULT C.1uF Z				
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C1251 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1252 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1258 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1258 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1258 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1259 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1261 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1262 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1263 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1264 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1265 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1266 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1269 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1260 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1261 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1261 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1262 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1263 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1264 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1265 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1266 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1267 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1267 CCMB-F104Z-OAF CAPACITOR CHIP/MULT C1267 CCMB-F104Z-OAF CAPACITOR CHIP/M				
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C940 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C941 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C942 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C943 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C944 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C945 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C946 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C947 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C948 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C949 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C949 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B				
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C942 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C943 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C944 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C945 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C946 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C947 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C948 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C948 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C949 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C940 C				
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C946 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C947 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C948 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C949 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C940 C				
C947 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C948 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C949 CCMB-F104Z-0AF CAPACITOR CHIP/MULT C949 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B 0.1uF Z 25V F B				
C948 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B C949 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B				
C949 CCMB-F104Z-0AF CAPACITOR CHIP/MULT 0.1uF Z 25V F B				
	C950 CCMB-F104Z-0AF	CAPACITOR CHIP/MULT	0.1uF Z 25V F B	

C1134 CCMB-F222K-0AB	CAPACITOR CHIP/MI II T	2200PF K 25V B B
C1135 CCMB-F222K-0AB		2200PF K 25V B B
C1136 CCMB-F222K-0AB		2200PF K 25V B B
C1137 CCMB-F222K-0AB	CAPACITOR CHIP/MULT	2200PF K 25V B B
C1138 CCMB-F222K-0AB	CAPACITOR CHIP/MULT	2200PF K 25V B B
C1139 CCMB-F222K-0AB	CAPACITOR CHIP/MULT	2200PF K 25V B B
C1140 CCMB-F222K-0AB		2200PF K 25V B B
C1141 CCMB-F222K-0AB		2200PF K 25V B B
C1249 CCMB-F222K-0AB		2200PF K 25V B B
C1250 CCMB-F222K-0AB	CAPACITOR CHIP/MULT	2200PF K 25V B B
C1040 CCMB-F272K-0AB	CAPACITOR CHIP/MULT	2700PF K 25V B B
C1041 CCMB-F272K-0AB		2700PF K 25V B B
C1048 CCMB-F272K-0AB		2700PF K 25V B B
C1049 CCMB-F272K-0AB		2700PF K 25V B B
C1056 CCMB-F272K-0AB		2700PF K 25V B B
C1057 CCMB-F272K-0AB	CAPACITOR CHIP/MULT	2700PF K 25V B B
C1058 CCMB-F272K-0AB	CAPACITOR CHIP/MULT	2700PF K 25V B B
C1067 CCMB-F272K-0AB		2700PF K 25V B B
C1068 CCMB-F272K-0AB		2700PF K 25V B B
C1036 CCMB-J101J-0AC		100PF J 50V CH B
C1037 CCMB-J101J-0AC		100PF J 50V CH B
C1044 CCMB-J101J-0AC	CAPACITOR CHIP/MULT	100PF J 50V CH B
C1045 CCMB-J101J-0AC	CAPACITOR CHIP/MULT	100PF J 50V CH B
C1053 CCMB-J101J-0AC		100PF J 50V CH B
C1063 CCMB-J101J-0AC		100PF J 50V CH B
C1064 CCMB-J101J-0AC		100PF J 50V CH B
C1090 CCMB-J101J-0AC	CAPACITOR CHIP/MULT	100PF J 50V CH B
C1091 CCMB-J101J-0AC	CAPACITOR CHIP/MULT	100PF J 50V CH B
C1092 CCMB-J101J-0AC	CAPACITOR CHIP/MULT	100PF J 50V CH B
C1093 CCMB-J101J-0AC		100PF J 50V CH B
C1000 CCMB-J104K-0BB		0.1uF K 50V X7R B
C1001 CCMB-J104K-0BB		
C1002 CCMB-J104K-0BB		0.1uF K 50V X7R B
C1003 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C1004 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C1229 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C1234 CCMB-J104K-0BB		0.1uF K 50V X7R B
C1235 CCMB-J104K-0BB		0.1uF K 50V X7R B
C1236 CCMB-J104K-0BB		0.1uF K 50V X7R B
C1237 CCMB-J104K-0BB		0.1uF K 50V X7R B
C953 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C955 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C958 CCMB-J104K-0BB		0.1uF K 50V X7R B
C960 CCMB-J104K-0BB		0.1uF K 50V X7R B
C963 CCMB-J104K-0BB		
		0.1uF K 50V X7R B
C965 CCMB-J104K-0BB		0.1uF K 50V X7R B
C968 CCMB-J104K-0BB		0.1uF K 50V X7R B
C970 CCMB-J104K-0BB		0.1uF K 50V X7R B
C971 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C972 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C973 CCMB-J104K-0BB		0.1uF K 50V X7R B
C974 CCMB-J104K-0BB		0.1uF K 50V X7R B
C975 CCMB-J104K-0BB		0.1uF K 50V X7R B
C976 CCMB-J104K-0BB		0.1uF K 50V X7R B
C977 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C978 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C979 CCMB-J104K-0BB		0.1uF K 50V X7R B
C980 CCMB-J104K-0BB		0.1uF K 50V X7R B
C981 CCMB-J104K-0BB		0.1uF K 50V X7R B
C982 CCMB-J104K-0BB		0.1uF K 50V X7R B
C983 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C984 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B
C985 CCMB-J104K-0BB		0.1uF K 50V X7R B
C986 CCMB-J104K-0BB		0.1uF K 50V X7R B
C987 CCMB-J104K-0BB		0.1uF K 50V X7R B
C988 CCMB-J104K-0BB	CAPACITOR CHIP/MULT	0.1uF K 50V X7R B

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C989 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF K 50V X7R B
 C990 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF
                                                   K 50V X7R B
 C991 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF
                                                    K 50V X7R B
 C992 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF
                                                   K 50V X7R B
 C993 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF
                                                   K 50V X7R B
 C994 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF
                                                   K 50V X7R B
 C995 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF
                                                   K 50V X7R B
 C996 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF
                                                   K 50V X7R B
 C997 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF
                                                   K 50V X7R B
 C998 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF
                                                   K 50V X7R B
 C999 CCMB-J104K-0BB CAPACITOR CHIP/MULT
                                             0.1uF K 50V X7R B
C1199 CCMB-J152K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R152K50PT/1.5N
C1200 CCMB-J152K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R152K50PT/1.5N
C1201 CCMB-J152K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R152K50PT/1.5N
C1202 CCMB-J152K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R152K50PT/1.5N
C1264 CCMB-J180J-0AC CAPACITOR CHIP/MULT
                                             18PF
                                                   J 50V CH B
C1265 CCMB-J180J-0AC CAPACITOR CHIP/MULT
                                             18PF
                                                    J 50V CH B
 C913 CCMB-J180J-0AC CAPACITOR CHIP/MULT
                                             18PF
                                                    J 50V CH B
 C914 CCMB-J180J-0AC CAPACITOR CHIP/MULT
                                             18PF
                                                    J 50V CH B
                                             18PF
 C925 CCMB-J180J-0AC CAPACITOR CHIP/MULT
                                                    J 50V CH B
                                             18PF
 C926 CCMB-J180J-0AC CAPACITOR CHIP/MULT
                                                    J 50V CH B
                                             22PF
                                                   J 50V CH B
C1227 CCMB-J220J-0AC CAPACITOR CHIP/MULT
C1012 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1013 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1014 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1015 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1016 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1017 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1018 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1019 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1020 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1021 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1022 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1023 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1024 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1025 CCMB-J223K-0BB CAPACITOR CHIP/MULT
                                             0.022uF K 50V X7R B
C1219 CCMB-J331K-0BB CAPACITOR CHIP/MULT
                                             330PF K 50V X7R B
C1220 CCMB-J331K-0BB CAPACITOR CHIP/MULT
                                              330PF
                                                   K 50V X7R B
C1221 CCMB-J331K-0BB CAPACITOR CHIP/MULT
                                              330PF K 50V X7R B
                                              330PF K 50V X7R B
C1222 CCMB-J331K-0BB CAPACITOR CHIP/MULT
C1223 CCMB-J331K-0BB CAPACITOR CHIP/MULT
                                             330PF K 50V X7R B
C1224 CCMB-J331K-0BB CAPACITOR CHIP/MULT
                                             330PF K 50V X7R B
                                             330PF K 50V X7R B
C1225 CCMB-J331K-0BB CAPACITOR CHIP/MULT
C1042 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1043 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1050 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1051 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1059 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1069 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1070 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1215 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1216 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1217 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1218 CCMB-J332K-0AG CAPACITOR CHIP/MULT
                                             GRM39X7R332K50PT/3.3N
C1150 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1151 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                    J 50V CH B
C1152 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                    J 50V CH B
C1153 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                    J 50V CH B
C1158 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                    J 50V CH B
C1159 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                    J 50V CH B
C1160 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                    J 50V CH B
                                             47PF
C1161 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                                    J 50V CH B
                                             47PF
C1166 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                                    J 50V CH B
C1167 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                    J 50V CH B
C1168 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                    J 50V CH B
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ELECTRICAL PART LIST

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C1169 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1174 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1175 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1176 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1177 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1243 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1244 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1245 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1246 CCMB-J470J-0AC CAPACITOR CHIP/MULT
                                             47PF
                                                   J 50V CH B
C1115 CCMB-J471J-0AZ CAPACITOR CHIP/MULT
                                             470PF J 50V SL B
C1038 CCMB-J561J-0AZ CAPACITOR CHIP/MULT
                                             560PF J 50V SL B
C1039 CCMB-J561J-0AZ CAPACITOR CHIP/MULT
                                             560PF J 50V SL B
C1046 CCMB-J561J-0AZ CAPACITOR CHIP/MULT
                                             560PF J 50V SL B
C1047 CCMB-J561J-0AZ CAPACITOR CHIP/MULT
                                             560PF J 50V SL B
C1052 CCMB-J561J-0AZ CAPACITOR CHIP/MULT
                                             560PF J 50V SL B
C1054 CCMB-J561J-0AZ CAPACITOR CHIP/MULT
                                             560PF J 50V SL B
C1055 CCMB-J561J-0AZ CAPACITOR CHIP/MULT
                                             560PF J 50V SL B
C1065 CCMB-J561J-0AZ CAPACITOR CHIP/MULT
                                             560PF J 50V SL B
C1066 CCMB-J561J-0AZ CAPACITOR CHIP/MULT
                                             560PF J 50V SL B
 C901 CEES-J102J-LP1 CAPACITOR E/ALUMINUM
                                             1000uF/50V
 C951 CEES-J102J-LP1 CAPACITOR E/ALUMINUM
                                             1000uF/50V
 C956 CEES-J102J-LP1 CAPACITOR E/ALUMINUM
                                             1000uF/50V
 C961 CEES-J102J-LP1 CAPACITOR E/ALUMINUM
                                             1000uF/50V
 C966 CEES-J102J-LP1 CAPACITOR E/ALUMINUM
                                             1000uF/50V
C1101 CEET-C102M-HJ1 CAPACITOR E/ALUMINUM
                                             1000uF 6.3V 10x12.5 SMS T
C1104 CEET-C102M-HJ1 CAPACITOR E/ALUMINUM
                                             1000uF 6.3V 10x12.5 SMS T
 C903 CEET-C102M-HJ1 CAPACITOR E/ALUMINUM
                                             1000uF 6.3V 10x12.5 SMS T
 C905 CEET-C102M-HJ1 CAPACITOR E/ALUMINUM
                                             1000uF 6.3V 10x12.5 SMS T
C1118 CEET-C331M-CIO CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
C1120 CEET-C331M-CI0 CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
                                                                 Τ
C1122 CEET-C331M-CI0 CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
                                                                 Τ
C1124 CEET-C331M-CI0 CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
                                                                 Τ
C1126 CEET-C331M-CIO CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
C1128 CEET-C331M-CI0 CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
C1130 CEET-C331M-CI0 CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
C1132 CEET-C331M-CI0 CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
C1253 CEET-C331M-CI0 CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
C1254 CEET-C331M-CIO CAPACITOR E/ALUMINUM
                                             330uF M 6.3V 6.3x11
C1105 CEET-D101M-CIO CAPACITOR E/ALUMINUM
                                             100uF M 10V 5x11
C1107 CEET-D101M-CIO CAPACITOR E/ALUMINUM
                                             100uF M 10V 5x11
C1110 CEET-D101M-CIO CAPACITOR E/ALUMINUM
                                             100uF M 10V 5x11
C1114 CEET-D101M-CIO CAPACITOR E/ALUMINUM
                                             100uF M 10V 5x11
C1188 CEET-D101M-CIO CAPACITOR E/ALUMINUM
                                             100uF M 10V 5x11
C1194 CEET-D101M-CIO CAPACITOR E/ALUMINUM
                                             100uF M 10V 5x11
                                                                 Τ
C1026 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF M 16V 5x11
                                                                Τ
C1027 CEET-E100M-CI0 CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1028 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1029 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1030 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1031 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1032 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1033 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1062 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1071 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1073 CEET-E100M-CI0 CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1079 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1156 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1157 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1164 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1165 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1172 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1173 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1180 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1181 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1182 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
C1195 CEET-E100M-CIO CAPACITOR E/ALUMINUM
                                             10uF
                                                   M 16V 5x11
                                                                Τ
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C1196 CEET-E100M-CIO CAPACITOR E/ALUMINUM

10uF

M 16V 5x11

C1197 CEET-E100M-CI0	CAPACITOR E/ALUMINUM	10uF M 16V 5x11 T
C1198 CEET-E100M-CI0	CAPACITOR E/ALUMINUM	10uF M 16V 5x11 T
C1211 CEET-E100M-CI0	CAPACITOR E/ALUMINUM	10uF M 16V 5x11 T
C1212 CEET-E100M-CI0	CAPACITOR E/ALUMINUM	10uF M 16V 5x11 T
C1213 CEET-E100M-CI0	CAPACITOR E/ALUMINUM	10uF M 16V 5x11 T
C1214 CEET-E100M-CI0	CAPACITOR E/ALUMINUM	10uF M 16V 5x11 T
C1256 CEET-E100M-CI0	CAPACITOR E/ALUMINUM	10uF M 16V 5x11 T
C1257 CEET-E100M-CI0	CAPACITOR E/ALUMINUM	10uF M 16V 5x11 T
C1034 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1035 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1075 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1142 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1143 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1144 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1145 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1146 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1147 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1148 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1149 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1230 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1231 CEET-F470M-CI0		
	CAPACITOR E/ALUMINUM	
C1247 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1248 CEET-F470M-CI0	CAPACITOR E/ALUMINUM	47uF M 25V 5x11 T
C1084 CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11 T
C1086 CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11 T
C1088 CEET-G100M-CI0	CAPACITOR E/ALUMINUM	10uF M 35V 5x11 T
C1083 CEET-JR47M-CI0	CAPACITOR E/ALUMINUM	0.47uF M 50V 5x11 T
C1184 CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11 T
C1186 CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11 T
C1190 CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11 T
C1192 CEET-J1R0M-CI0	CAPACITOR E/ALUMINUM	1.0uF M 50V 5x11 T
C1111 CEET-J2R2M-CI0	CAPACITOR E/ALUMINUM	2.2uF M 50V 5x11 T
C1260 CETB-C2R2M-0E0		2.2uF 6.3V 20% A
	CAPACITOR CHIPTANTAL	2.2uF 6.3V 20% A
C920 CETB-C2R2M-0E0	CAPACITOR CHIPTANTAL	2.2uF 6.3V 20% A
C1266 CETB-C220M-0E0	CAPACITOR CHIPTANTAL	22uF 6.3V A TSM0J226ASSR
	CAPACITOR CHIPTANTAL	22uF 6.3V A TSM0J226ASSR
C927 CETB-C220M-0E0	CAPACITOR CHIPTANTAL	22uF 6.3V A TSM0J226ASSR
C952 CETB-J1R0M-0H0	CAPACITOR CHIPTANTAL	1uF 50V 20% 6032
C954 CETR- I1R0M-0H0	CAPACITOR CHIPTANTAL	1uF 50V 20% 6032
	CAPACITOR CHIPTANTAL	1uF 50V 20% 6032
C959 CETB-J1R0M-0H0	CAPACITOR CHIPTANTAL	1uF 50V 20% 6032
C962 CFTB-J1R0M-0H0	CAPACITOR CHIPTANTAL	1uF 50V 20% 6032
		1uF 50V 20% 6032
	CAPACITOR CHIPTANTAL	
C967 CETB-J1R0M-0H0	CAPACITOR CHIPTANTAL	1uF 50V 20% 6032
C969 CETB-J1R0M-0H0	CAPACITOR CHIPTANTAL	1uF 50V 20% 6032
C1005 CFMT-J474J-DF0		0.47uF J 50V 6x8 TL
C1006 CFMT-J474J-DF0		0.47uF J 50V 6x8 TL
C1007 CFMT-J474J-DF0	CAPACITOR F/POLYESTR	0.47uF J 50V 6x8 TL
C1008 CFMT-J474J-DF0	CAPACITOR F/POLYESTR	0.47uF J 50V 6x8 TL
C1009 CFMT-J474J-DF0	CAPACITOR F/POLYESTR	0.47uF J 50V 6x8 TL
C1010 CFMT-J474J-DF0	CAPACITOR F/POLYESTR	0.47uF J 50V 6x8 TL
C1011 CFMT-J474J-DF0	CAPACITOR F/POLYESTR	0.47uF J 50V 6x8 TL
D902 DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm) T
D903 DDTR-00040-T10	DIODE-RECTIFIER	1N4004S(400V 1A 0.6mm) T
D901 DDTS-00070-SO0	DIODE-SI	1SS133 (40V 0.11A) DO-40 T
RL902 ESRY-00410-500	POWER RELAY	DQ5D1-0(M)DC5V
RL901 ESRY-00451-100	RELAY	TSC-105L3H 5V 100mA
IC904 ICAP-00500-000	IC AMP-POWER	DDX-2100
IC905 ICAP-00500-000	IC AMP-POWER	DDX-2100
IC906 ICAP-00500-000	IC AMP-POWER	DDX-2100
IC907 ICAP-00500-000	IC AMP-POWER	DDX-2100
IC910 ICCM-01641-V60	IC EEPROM	SST39VF040-90(70)-4C-NH
	IC OCTAL BUFFER LINE	74HC244D(R) SOP20
IC911 ICCM-01970-S70	IC OCTAL D-TYPE F/F	74LVC574AD(R) SOP20
IC912 ICCM-01970-S70	IC OCTAL D-TYPE F/F	74LVC574AD(R) SOP20
IC936 ICDG-02310-US0	IC D/A CONVERTER	CS4340-KS
1225. 225. 3		

IC937	ICDG-02310-US0	IC D/A CONVERTER	CS4340-KS
	ICDG-02320-US0	IC A/D CONVERTER	CS5360-KS
IC919	ICDG-02320-US0	IC A/D CONVERTER	CS5360-KS
IC920	ICDG-02320-US0	IC A/D CONVERTER	CS5360-KS
	ICDG-02320-US0	IC A/D CONVERTER	CS5360-KS
IC942	ICDG-02320-US0	IC A/D CONVERTER	CS5360-KS
IC913	ICDG-02420-US0	DSP IC	CS49326
	ICDG-02900-U40	IC DIGITAL AUDIO	AK4114VQ LQFP44P
IC908	ICDG-02940-US0	IC 114DB D/A CONVERT	CS4382-KQ LQFP48
IC915	ICDG-02960-WE0	IC PLD	M4A3-32/32-10VC44 TQFP44
10901	ICDG-03130-000	IC DIGITAL AUDIO	DDX4100A
	ICDG-03130-000	IC DIGITAL AUDIO	DDX4100A
IC944	ICDG-03130-000	IC DIGITAL AUDIO	DDX4100A
IC922	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
IC924	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
IC925	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
			NJM4558M SOP8
	ICOP-00134-SG0	IC DUAL OP AMP	
IC927	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
IC928	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
IC931	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
IC932	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
IC935	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
IC938	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
	ICOP-00134-SG0	IC DUAL OP AMP	
			NJM4558M SOP8
IC940	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
IC941	ICOP-00134-SG0	IC DUAL OP AMP	NJM4558M SOP8
	ICRG-01240-SG0	IC LOW VOLTAGE REGU	NJM2391DL1-33 TO-252
IC917	ICRG-01240-SG0	IC LOW VOLTAGE REGU	NJM2391DL1-33 TO-252
IC909	ICTT-00400-S70	IC TTL	74HCU04D(R)
IC914	ICTT-00500-S70	IC TTL	74LVC541 SOP20
	ICTT-00560-S70	IC	74LVC157A
L901	KICK-00060-000	COIL CHOCK	8080P-13-220K
1902	KICK-00060-000	COIL CHOCK	8080P-13-220K
	KICK-00060-000	COIL CHOCK	8080P-13-220K
	KICK-00060-000	COIL CHOCK	8080P-13-220K
L905	KICK-00060-000	COIL CHOCK	8080P-13-220K
	KICK-00060-000	COIL CHOCK	8080P-13-220K
	KICK-00060-000	COIL CHOCK	8080P-13-220K
L908	KICK-00060-000	COIL CHOCK	8080P-13-220K
1909	KICK-00060-000	COIL CHOCK	8080P-13-220K
	KICK-00060-000	COIL CHOCK	8080P-13-220K
L911	KICK-00060-000	COIL CHOCK	8080P-13-220K
L912	1/101/ 00000 000		
1913	KICK-00060-000	COIL CHOCK	8080P-13-220K
			8080P-13-220K
	KICK-00060-000	COIL CHOCK	8080P-13-220K 8080P-13-220K
	KICK-00060-000 KICK-00060-000	COIL CHOCK	8080P-13-220K 8080P-13-220K 8080P-13-220K
	KICK-00060-000	COIL CHOCK	8080P-13-220K 8080P-13-220K
L916	KICK-00060-000 KICK-00060-000 KIFR-00530-000	COIL CHOCK COIL CHOCK COIL-SPRING	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A
L916 L915	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003	COIL CHOCK COIL CHOCK COIL-SPRING COIL-INDUCTOR	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02
L916 L915 CW911	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KI0T-4330K-003 KNCW-00140-8TM	COIL CHOCK COIL CHOCK COIL-SPRING COIL-INDUCTOR CONNECTOR-WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK
L916 L915 CW911 CW904	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KI0T-4330K-003 KNCW-00140-8TM KNCW-00240-DT9	COIL CHOCK COIL CHOCK COIL-SPRING COIL-INDUCTOR CONNECTOR-WAFER CONNECTOR-WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT
L916 L915 CW911 CW904	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KI0T-4330K-003 KNCW-00140-8TM KNCW-00240-DT9	COIL CHOCK COIL CHOCK COIL-SPRING COIL-INDUCTOR CONNECTOR-WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK
L916 L915 CW911 CW904 CW906	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KI0T-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9	COIL CHOCK COIL CHOCK COIL-SPRING COIL-INDUCTOR CONNECTOR-WAFER CONNECTOR-WAFER CONNECTOR-WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT
L916 L915 CW911 CW904 CW906 CW907	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KI0T-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT
L916 L915 CW911 CW904 CW906 CW907 CW909	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KI0T-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-5T9	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-05 2.0mm WHT
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905 CW908	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-5T9 KNCW-00240-8T9	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-05 2.0mm WHT 53014-08 2.0mm WHT
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905 CW908 CW902	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-5T9 KNCW-00240-8T9 KNCW-00240-8T9 KNCW-00760-IT0	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-05 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905 CW908 CW902	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KI0T-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-5T9 KNCW-00240-8T9 KNCW-00240-8T9 KNCW-00760-IT0	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-05 2.0mm WHT 53014-08 2.0mm WHT
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905 CW908 CW902 CW903	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KI0T-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-5T9 KNCW-00240-8T9 KNCW-00760-IT0 KNCW-00760-UT0	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-05 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P 8370-301 1.25mm TOP 30P
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905 CW908 CW902 CW903 CW901	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-8T9 KNCW-00240-8T9 KNCW-00760-IT0 KNCW-00760-UT0 KNCW-00970-4T9	COIL CHOCK COIL CHOCK COIL—SPRING COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-08 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P 8370-301 1.25mm TOP 30P JE202-1T-4P
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW908 CW908 CW902 CW903 CW901 CW910	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-8T9 KNCW-00240-8T9 KNCW-00760-IT0 KNCW-00760-UT0 KNCW-00970-4T9 KNCW-00990-2T9	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-08 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P 8370-301 1.25mm TOP 30P JE202-1T-4P JE202A-1T-02
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW908 CW908 CW902 CW903 CW901 CW910 HB901	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-8T9 KNCW-00240-8T9 KNCW-00760-IT0 KNCW-00760-UT0 KNCW-00970-4T9 KNCW-00990-2T9 KORB-00090-000	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-05 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P 8370-301 1.25mm TOP 30P JE202-1T-4P JE202A-1T-02 HB-1T2012-221
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW908 CW908 CW902 CW903 CW901 CW910 HB901	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-8T9 KNCW-00240-8T9 KNCW-00760-IT0 KNCW-00760-UT0 KNCW-00970-4T9 KNCW-00990-2T9	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-08 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P 8370-301 1.25mm TOP 30P JE202-1T-4P JE202A-1T-02
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905 CW908 CW903 CW901 CW910 HB901 HB901	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-FT9 KNCW-00240-2T9 KNCW-00240-4T9 KNCW-00240-5T9 KNCW-00240-8T9 KNCW-00240-8T9 KNCW-00760-UT0 KNCW-00970-4T9 KNCW-00990-2T9 KORB-00090-000	COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CHIP FERRITE BEADS	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-05 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P 8370-301 1.25mm TOP 30P JE202-1T-4P JE202A-1T-02 HB-1T2012-221 HB-1T2012-221
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905 CW908 CW903 CW901 CW910 HB901 HB902 HB903	KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-ET9 KNCW-00240-2T9 KNCW-00240-5T9 KNCW-00240-8T9 KNCW-00240-8T9 KNCW-00760-UT0 KNCW-00970-4T9 KNCW-00970-4T9 KNCW-00990-2T9 KORB-00090-000 KORB-00090-000	COIL CHOCK COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CHIP FERRITE BEADS CHIP FERRITE BEADS	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-05 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P 8370-301 1.25mm TOP 30P JE202-1T-4P JE202A-1T-02 HB-1T2012-221 HB-1T2012-221
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905 CW908 CW901 CW910 HB901 HB901 HB903 HB904	KICK-00060-000 KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-ET9 KNCW-00760-UT0 KNCW-00760-UT0 KNCW-00970-4T9 KNCW-00990-2T9 KORB-00090-000 KORB-00090-000	COIL CHOCK COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CHIP FERRITE BEADS CHIP FERRITE BEADS	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-04 2.0mm WHT 53014-08 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P 8370-301 1.25mm TOP 30P JE202-1T-4P JE202A-1T-02 HB-1T2012-221 HB-1T2012-221 HB-1T2012-221
L916 L915 CW911 CW904 CW906 CW907 CW909 CW912 CW905 CW908 CW901 CW910 HB901 HB901 HB903 HB904	KICK-00060-000 KICK-00060-000 KICK-00060-000 KIFR-00530-000 KIOT-4330K-003 KNCW-00140-8TM KNCW-00240-DT9 KNCW-00240-FT9 KNCW-00240-ET9 KNCW-00760-UT0 KNCW-00760-UT0 KNCW-00970-4T9 KNCW-00990-2T9 KORB-00090-000 KORB-00090-000	COIL CHOCK COIL CHOCK COIL CHOCK COIL—SPRING COIL—INDUCTOR CONNECTOR—WAFER CHIP FERRITE BEADS CHIP FERRITE BEADS	8080P-13-220K 8080P-13-220K 8080P-13-220K SPC-534 4.7uH 9A 33uH K L5 2.3x3.4 LAL02 5267-08A 2.5mm MILK 53014-13 2.0mm WHT 53014-15 2.0mm WHT 53014-02 2.0mm WHT 53014-02 2.0mm WHT 53014-04 2.0mm WHT 53014-05 2.0mm WHT 53014-08 2.0mm WHT 8370-181 1.25mm TOP 18P 8370-301 1.25mm TOP 30P JE202-1T-4P JE202A-1T-02 HB-1T2012-221 HB-1T2012-221

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HB905 KORB-00100-000 CHIP FERRITE BEADS
                                              HB-1T2012-601
HB906 KORB-00100-000 CHIP FERRITE BEADS
                                              HB-1T2012-601
HB907 KORB-00100-000 CHIP FERRITE BEADS
                                              HB-1T2012-601
HB908 KORB-00100-000 CHIP FERRITE BEADS
                                              HB-1T2012-601
HB909 KORB-00100-000 CHIP FERRITE BEADS
                                              HB-1T2012-601
HB910 KORB-00100-000 CHIP FERRITE BEADS
                                              HB-1T2012-601
HB911 KORB-00100-000 CHIP FERRITE BEADS
                                              HB-1T2012-601
XT901 KTAL-01370-000
                     CRYSTAL
                                              24.576MHz
XT902 KTAL-01370-000
                     CRYSTAL
                                              24.576MHz
XT904 KTAL-01370-000
                     CRYSTAL
                                              24.576MHz
XT903 KTOS-00190-228 OSCILLATOR
                                              D25B12.2880NTS
      MPAC-17700-004 EMI SPRING
PCB1 PCWR-06060-1KL PCB DOUBLE
                                              A1R-606 280x215x1.6t
R1011 RCPB-C000J-23C RESISTOR-CHIP C/FILM
                                              0ohm 1/16W
R1009 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                              10ohm 1/16W 5% B
R1010 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                                     1/16W 5% B
                                              10ohm
R1087 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                                     1/16W 5% B
                                              10ohm
R1088 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                                     1/16W 5% B
                                              10ohm
R1089 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                                     1/16W 5% B
                                              10ohm
R1090 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                                     1/16W 5% B
                                              10ohm
R1091 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                              10ohm
                                                     1/16W 5% B
R1092 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                              10ohm
                                                     1/16W 5% B
R1093 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                              10ohm
                                                     1/16W 5% B
R1094 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                              10ohm
                                                     1/16W 5% B
R1233 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                              10ohm
                                                     1/16W 5% B
R1234 RCPB-C100J-23C RESISTOR-CHIP C/FILM
                                              10ohm
                                                     1/16W 5% B
R1014 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1015 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1016 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1017 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1018 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1028 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1038 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1039 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1040 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1041 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1042 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1043 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1044 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1045 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1046 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1047 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1048 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1052 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
                                              100ohm 1/16W 5% B
R1054 RCPB-C101J-23C RESISTOR-CHIP C/FILM
R1066 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1067 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1068 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1069 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5%
                                                                B
R1070 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5%
                                                                B
R1071 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                     1/16W 5%
                                                                B
R1072 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                     1/16W 5%
                                                                B
R1076 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                     1/16W 5%
                                                                B
R1077 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                      1/16W 5%
                                                                B
R1175 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                                      1/16W 5%
                                              100ohm
R1176 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                                      1/16W 5%
                                              100ohm
                                                                B
R1177 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                      1/16W 5%
                                                                B
R1178 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                      1/16W 5%
                                                                B
R1179 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                      1/16W 5%
                                                                B
R1212 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                                      1/16W 5%
                                              100ohm
                                                                В
R1213 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                      1/16W 5%
                                                                В
R1236 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                      1/16W 5%
                                                                В
R1241 RCPB-C101J-23C RESISTOR-CHIP C/FILM R1242 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm
                                                      1/16W 5%
                                                                В
                                                     1/16W 5% B
                                              100ohm
R1243 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
R1244 RCPB-C101J-23C RESISTOR-CHIP C/FILM
                                              100ohm 1/16W 5% B
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R911 RCPB-C101J-23C RESISTOR-CHIP C/F	ILM 100ohm	1/16W 5% B
R912 RCPB-C101J-23C RESISTOR-CHIP C/F		1/16W 5% B
R913 RCPB-C101J-23C RESISTOR-CHIP C/F		1/16W 5% B
R914 RCPB-C101J-23C RESISTOR-CHIP C/F	ILM 100ohm	1/16W 5% B
R920 RCPB-C101J-23C RESISTOR-CHIP C/F		1/16W 5% B
R922 RCPB-C101J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1049 RCPB-C102J-23C RESISTOR-CHIP C/F	ILM 1Kohm	1/16W 5% B
R1050 RCPB-C102J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1051 RCPB-C102J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1053 RCPB-C102J-23C RESISTOR-CHIP C/F	FILM 1Kohm	1/16W 5% B
R1083 RCPB-C102J-23C RESISTOR-CHIP C/F	ILM 1Kohm	1/16W 5% B
R1084 RCPB-C102J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1085 RCPB-C102J-23C RESISTOR-CHIP C/F	ILM 1Kohm	1/16W 5% B
R1086 RCPB-C102J-23C RESISTOR-CHIP C/F	ILM 1Kohm	1/16W 5% B
R1204 RCPB-C102J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1205 RCPB-C102J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1206 RCPB-C102J-23C RESISTOR-CHIP C/F	ILM 1Kohm	1/16W 5% B
R1207 RCPB-C102J-23C RESISTOR-CHIP C/F	ILM 1Kohm	1/16W 5% B
R1232 RCPB-C102J-23C RESISTOR-CHIP C/F		
		1/16W 5% B
R1032 RCPB-C103J-23C RESISTOR-CHIP C/F	FILM 10Kohm	1/16W 5% B
R1033 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1034 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1035 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1036 RCPB-C103J-23C RESISTOR-CHIP C/F	FILM 10Kohm	1/16W 5% B
R1057 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1058 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1059 RCPB-C103J-23C RESISTOR-CHIP C/F	FILM 10Kohm	1/16W 5% B
R1060 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1061 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1062 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1063 RCPB-C103J-23C RESISTOR-CHIP C/F	FILM 10Kohm	1/16W 5% B
R1064 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1078 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1081 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1127 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1128 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1129 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1130 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1131 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1132 RCPB-C103J-23C RESISTOR-CHIP C/F		.,
R1133 RCPB-C103J-23C RESISTOR-CHIP C/F	FILM 10Kohm	1/16W 5% B
R1134 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1135 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1136 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1137 RCPB-C103J-23C RESISTOR-CHIP C/F	FILM 10Kohm	1/16W 5% B
R1138 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1139 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1140 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1141 RCPB-C103J-23C RESISTOR-CHIP C/F	FILM 10Kohm	1/16W 5% B
R1142 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1143 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1144 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1145 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1146 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1147 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1148 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1149 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1150 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1151 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1152 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1153 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1154 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1155 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1156 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1157 RCPB-C103J-23C RESISTOR-CHIP C/F	ILM 10Kohm	1/16W 5% B
R1158 RCPB-C103J-23C RESISTOR-CHIP C/F		1/16W 5% B
R1181 RCPB-C103J-23C RESISTOR-CHIP C/F	FILM 10Kohm	1/16W 5% B

R1182 RCPB-C103J-23C	RESISTOR-CHIP C/FILM	10Kohm 1/16W 5% B
R1185 RCPB-C103J-23C		10Kohm 1/16W 5% B
R1186 RCPB-C103J-23C		10Kohm 1/16W 5% B
R1217 RCPB-C103J-23C		10Kohm 1/16W 5% B
R1218 RCPB-C103J-23C		10Kohm 1/16W 5% B
R1219 RCPB-C103J-23C	RESISTOR-CHIP C/FILM	10Kohm 1/16W 5% B
R1220 RCPB-C103J-23C	RESISTOR-CHIP C/FILM	10Kohm 1/16W 5% B
R1221 RCPB-C103J-23C	RESISTOR-CHIP C/FILM	10Kohm 1/16W 5% B
R1222 RCPB-C103J-23C	RESISTOR-CHIP C/FILM	10Kohm 1/16W 5% B
R1223 RCPB-C103J-23C		10Kohm 1/16W 5% B
R1224 RCPB-C103J-23C		10Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	10Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	10Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	10Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	10Kohm 1/16W 5% B
R1013 RCPB-C104J-23C	RESISTOR-CHIP C/FILM	100Kohm 1/16W 5% B
R1025 RCPB-C104J-23C	RESISTOR-CHIP C/FILM	100Kohm 1/16W 5% B
R1208 RCPB-C104J-23C		100Kohm 1/16W 5% B
R1209 RCPB-C104J-23C		100Kohm 1/16W 5% B
R1210 RCPB-C104J-23C		100Kohm 1/16W 5% B
R1211 RCPB-C104J-23C		100Kohm 1/16W 5% B
R1245 RCPB-C105J-23C		1Mohm 1/16W 5% B
R921 RCPB-C105J-23C	RESISTOR-CHIP C/FILM	1Mohm 1/16W 5% B
R923 RCPB-C105J-23C	RESISTOR-CHIP C/FILM	1Mohm 1/16W 5% B
R1000 RCPB-C122J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
R1001 RCPB-C122J-23C		1.2Kohm 1/16W 5% B
R1002 RCPB-C122J-23C		1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
R966 RCPB-C122J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
R975 RCPB-C122J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
D000 D0DD 04001 000		
R990 RCPB-C122J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 1.2Kohm 1/16W 5% B
R999 RCPB-C122J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 12Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 12Kohm 1/16W 5% B 12Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 12Kohm 1/16W 5% B 12Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C	RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1166 RCPB-C123J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1111 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1111 RCPB-C151J-23C R1111 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1111 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1111 RCPB-C151J-23C R1111 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1113 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 15Oohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1118 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1119 RCPB-C151J-23C R1119 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1119 RCPB-C151J-23C R1119 RCPB-C151J-23C R1120 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1119 RCPB-C151J-23C R1119 RCPB-C151J-23C R1121 RCPB-C151J-23C R1121 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 15Oohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1119 RCPB-C151J-23C R1119 RCPB-C151J-23C R1120 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 15Oohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1119 RCPB-C151J-23C R1119 RCPB-C151J-23C R1121 RCPB-C151J-23C R1121 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 15Oohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1114 RCPB-C151J-23C R1117 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1119 RCPB-C151J-23C R1110 RCPB-C151J-23C R1120 RCPB-C151J-23C R1121 RCPB-C151J-23C R1121 RCPB-C151J-23C R1123 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 15Oohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1113 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1119 RCPB-C151J-23C R11120 RCPB-C151J-23C R1121 RCPB-C151J-23C R1121 RCPB-C151J-23C R1122 RCPB-C151J-23C R1123 RCPB-C151J-23C R1124 RCPB-C151J-23C R1124 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1113 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1119 RCPB-C151J-23C R1112 RCPB-C151J-23C R1121 RCPB-C151J-23C R1121 RCPB-C151J-23C R1122 RCPB-C151J-23C R1123 RCPB-C151J-23C R1124 RCPB-C151J-23C R1125 RCPB-C151J-23C R1125 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B
R999 RCPB-C122J-23C R1159 RCPB-C123J-23C R1160 RCPB-C123J-23C R1161 RCPB-C123J-23C R1162 RCPB-C123J-23C R1163 RCPB-C123J-23C R1164 RCPB-C123J-23C R1165 RCPB-C123J-23C R1166 RCPB-C123J-23C R1237 RCPB-C123J-23C R1238 RCPB-C123J-23C R1111 RCPB-C151J-23C R1112 RCPB-C151J-23C R1113 RCPB-C151J-23C R1114 RCPB-C151J-23C R1115 RCPB-C151J-23C R1116 RCPB-C151J-23C R1117 RCPB-C151J-23C R1118 RCPB-C151J-23C R1119 RCPB-C151J-23C R11120 RCPB-C151J-23C R1121 RCPB-C151J-23C R1121 RCPB-C151J-23C R1122 RCPB-C151J-23C R1123 RCPB-C151J-23C R1124 RCPB-C151J-23C R1124 RCPB-C151J-23C	RESISTOR-CHIP C/FILM	1.2Kohm 1/16W 5% B 12Kohm 1/16W 5% B 150ohm 1/16W 5% B

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R1229 RCPB-C470J-23C	RESISTOR-CHIP C/FILM	47ohm	1/16W 5% B
R1230 RCPB-C470J-23C		47ohm	1/16W 5% B
R1240 RCPB-C470J-23C		47ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	47ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	47ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	47ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	470hm	1/16W 5% B
	RESISTOR-CHIP C/FILM	470hm	1/16W 5% B
			1/16W 5% B
	RESISTOR-CHIP C/FILM	470hm	
R1019 RCPB-C471J-23C		470ohm	1/16W 5% B
R1031 RCPB-C471J-23C		470ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	470ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	470ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	470ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	470ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	470ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	470ohm	1/16W 5% B
	RESISTOR-CHIP C/FILM	470ohm	1/16W 5% B
R927 RCPB-C471J-23C	RESISTOR-CHIP C/FILM	470ohm	1/16W 5% B
R1073 RCPB-C472J-23C	RESISTOR-CHIP C/FILM	4.7Kohm	1/16W 5% B
R1074 RCPB-C472J-23C	RESISTOR-CHIP C/FILM	4.7Kohm	1/16W 5% B
R1095 RCPB-C472J-23C	RESISTOR-CHIP C/FILM	4.7Kohm	1/16W 5% B
R1096 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1097 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1098 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1099 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1100 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1101 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1102 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1231 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1235 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1246 RCPB-C472J-23C		4.7Kohm	
R1247 RCPB-C472J-23C		4.7Kohm	1/16W 5% B
R1020 RCPB-C473J-23C		47Kohm	1/16W 5% B
R1022 RCPB-C473J-23C		47Kohm	1/16W 5% B
R1030 RCPB-C473J-23C		47Kohm	1/16W 5% B
R1167 RCPB-C473J-23C		47Kohm	1/16W 5% B
R1168 RCPB-C473J-23C		47Kohm	1/16W 5% B
R1169 RCPB-C473J-23C		47Kohm	1/16W 5% B
R1170 RCPB-C473J-23C	RESISTOR-CHIP C/FILM	47Kohm	1/16W 5% B
R1171 RCPB-C473J-23C	RESISTOR-CHIP C/FILM	47Kohm	1/16W 5% B
R1172 RCPB-C473J-23C	RESISTOR-CHIP C/FILM	47Kohm	1/16W 5% B
R1173 RCPB-C473J-23C	RESISTOR-CHIP C/FILM	47Kohm	1/16W 5% B
R1174 RCPB-C473J-23C	RESISTOR-CHIP C/FILM	47Kohm	1/16W 5% B
R1180 RCPB-C473J-23C	RESISTOR-CHIP C/FILM	47Kohm	1/16W 5% B
R1215 RCPB-C473J-23C	RESISTOR-CHIP C/FILM	47Kohm	1/16W 5% B
R1216 RCPB-C473J-23C	RESISTOR-CHIP C/FILM	47Kohm	1/16W 5% B
R919 RCPB-C473J-23C	RESISTOR-CHIP C/FILM	47Kohm	1/16W 5% B
R1183 RCPB-C561J-23C	RESISTOR-CHIP C/FILM	560ohm	1/16W 5% B
R1184 RCPB-C561J-23C	RESISTOR-CHIP C/FILM	560ohm	1/16W 5% B
R1187 RCPB-C561J-23C	RESISTOR-CHIP C/FILM	560ohm	1/16W 5% B
R1214 RCPB-C561J-23C	RESISTOR-CHIP C/FILM	560ohm	1/16W 5% B
R1007 RCPB-C562J-23C	RESISTOR-CHIP C/FILM	5.6Kohm	1/16W 5% B
R1008 RCPB-C562J-23C	RESISTOR-CHIP C/FILM	5.6Kohm	1/16W 5% B
R971 RCPB-C562J-23C	RESISTOR-CHIP C/FILM	5.6Kohm	1/16W 5% B
R972 RCPB-C562J-23C	RESISTOR-CHIP C/FILM	5.6Kohm	1/16W 5% B
R983 RCPB-C562J-23C	RESISTOR-CHIP C/FILM	5.6Kohm	1/16W 5% B
R984 RCPB-C562J-23C	RESISTOR-CHIP C/FILM	5.6Kohm	1/16W 5% B
R995 RCPB-C562J-23C	RESISTOR-CHIP C/FILM	5.6Kohm	1/16W 5% B
R996 RCPB-C562J-23C	RESISTOR-CHIP C/FILM	5.6Kohm	1/16W 5% B
R1024 RCPB-C681J-23C	RESISTOR-CHIP C/FILM	680ohm	1/16W 5% B
R1026 RCPB-C750J-23C	RESISTOR-CHIP C/FILM		/16W 5% 0603
R932 RCPB-F200J-001	RESISTOR-CHIP C/FILM		6 1/4W 1210
R933 RCPB-F200J-001	RESISTOR-CHIP C/FILM		% 1/4W 1210
R934 RCPB-F200J-001	RESISTOR-CHIP C/FILM	20ohm 59	% 1/4W 1210
R935 RCPB-F200J-001	RESISTOR-CHIP C/FILM	20ohm 59	% 1/4W 1210
R936 RCPB-F200J-001	RESISTOR-CHIP C/FILM	20ohm 5%	% 1/4W 1210
R937 RCPB-F200J-001	RESISTOR-CHIP C/FILM		% 1/4W 1210

### ELECTRICAL PART LIST

R939 RCPB-F6R2J-0C0 R940 RCPB-F6R2J-0C0 R941 RCPB-F6R2J-0C0 R942 RCPB-F6R2J-0C0 R943 RCPB-F6R2J-0C0 R944 RCPB-F6R2J-0C0 R945 RCPB-F6R2J-0C0 R946 RCPB-F6R2J-0C0 R947 RCPB-F6R2J-0C0 R948 RCPB-F6R2J-0C0 R949 RCPB-F6R2J-0C0 R950 RCPB-F6R2J-0C0 R951 RCPB-F6R2J-0C0 R952 RCPB-F6R2J-0C0 R953 RCPB-F6R2J-0C0 R954 RCPB-F6R2J-0C0 R955 RCPB-F6R2J-0C0 R956 RCPB-F6R2J-0C0 R957 RCPB-F6R2J-0C0 R958 RCPB-F6R2J-0C0 R958 RCPB-F6R2J-0C0 R959 RCPB-F6R2J-0C0 R959 RCPB-F6R2J-0C0 R959 RCPB-F6R2J-0C0 R959 RCPB-F6R2J-0C0 R950 TESP-00531-04P SP901 TESP-00541-08P SP903 TESP-00551-02P PT901 TFMA-00130-SD0 Q901 TRBC-02130-SD0 Q902 TRBC-02130-SD0 Q904 TRBC-02130-SD0 Q905 TRTA-0008Y-SD0 Q906 TRTC-01700-SD0 Q906 TRTC-01700-SD0 Q906 TRTC-01700-SD0	RESISTOR CHIP RESISTOR OUTLET TERMINAL SPEAKER	200hm 5% 1/4W 1210 6.20hm 0.25W 1206 5% 6.20hm 0.25
U1T1-01211-Z00	WIRE-ASS'Y	1007#16 BLK 110 3.20RING
U208-11606-250	WIRE-ASS'Y	1007#24 BRN-60 2P

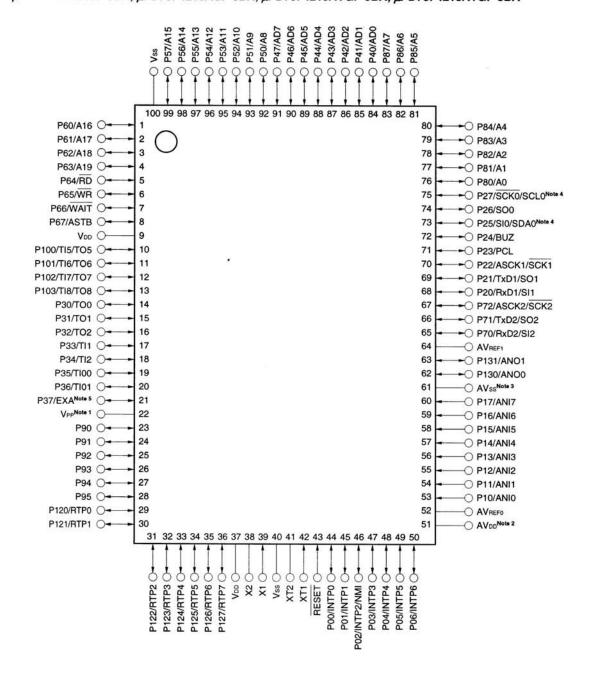
#### DIGITAL INPUT

	DIGITAL INPUT		
LOCNUM	SONITM	MATDES	MATSPC
C403	CCAT-F103Z-AAF	CAPACITOR CERAMIC	0.01uF Z 25V F T
C404	CCAT-F103Z-AAF	CAPACITOR CERAMIC	0.01uF Z 25V F T
C409	CCAT-F103Z-AAF	CAPACITOR CERAMIC	0.01uF Z 25V F T
C405	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C406	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C407	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C408	CCAT-J104Z-AAF	CAPACITOR CERAMIC	0.1uF Z 50V F T
C401	CCAT-J220J-AAZ	CAPACITOR CERAMIC	22PF J 50V SL T
C402	CCAT-J220J-AAZ	CAPACITOR CERAMIC	22PF J 50V SL T
	ICTT-00400-S70	IC TTL	74HCU04D(R)
	KI0T-4330K-003	COIL-INDUCTOR	33uH K L5 2.3x3.4 LAL02
	KI0T-4330K-003	COIL-INDUCTOR	33uH K L5 2.3x3.4 LAL02
	KI0T-4330K-003	COIL-INDUCTOR	33uH K L5 2.3x3.4 LAL02
J7	KNCW-00240-DT9	CONNECTOR-WAFER	53014-13 2.0mm WHT
	PCSR-06120-11B	PCB-SINGLE	A1R-612 247x197x1.6t
	RCFT-E101J-000	RESISTOR-CARBON FILM	100ohm 1/5W 5% T
	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
	RCFT-E104J-000	RESISTOR-CARBON FILM	100Kohm 1/5W 5% T
	RCFT-E105J-000	RESISTOR-CARBON FILM	1Mohm 1/5W 5% T
	RCFT-E105J-000	RESISTOR-CARBON FILM	1Mohm 1/5W 5% T
	RCFT-E182J-000	RESISTOR-CARBON FILM	1.8Kohm 1/5W 5% T
	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
	RCFT-E222J-000	RESISTOR-CARBON FILM	2.2Kohm 1/5W 5% T
	RCFT-E301J-000	RESISTOR-CARBON FILM	300ohm 1/5W 5% T
	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
_	RCFT-E471J-000	RESISTOR-CARBON FILM	470ohm 1/5W 5% T
	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
	RCFT-E473J-000	RESISTOR-CARBON FILM	47Kohm 1/5W 5% T
R403	RCFT-E681J-000	RESISTOR-CARBON FILM	680ohm 1/5W 5% T

R406 RCFT-E681J-000	RESISTOR-CARBON FILM	680ohm 1/5W 5% T
R401 RCFT-E750J-000	RESISTOR-CARBON FILM	75ohm 1/5W 5% T
R404 RCFT-E750J-000	RESISTOR-CARBON FILM	75ohm 1/5W 5% T
JW401 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW402 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW403 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW404 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW405 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW406 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW407 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW408 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
JW409 RJWT-00000-AA0	RESISTOR-JUMPER WIRE	60mm-TX123 F
IC403 SKMJ-00360-000	TRANSMITTING MODULE	VST5A/5B
IC401 SKMJ-00370-000	RECEIVING MODULE	VSR5A/5B
IC402 SKMJ-00370-000	RECEIVING MODULE	VSR5A/5B
JK402 SKRC-00672-01P	SOCKET-RCA	JC010126JG
JK401 SKRC-01262-02P	PIN JACK BOARD	JS020130ZG
PT401 TFMA-00130-000	PLUS-TRANS	KP-250

### uPD78F4216

100-pin plastic QFP (14 × 20)
 μPD78F4216AGF-3BA, μPD78F4218AGF-3BA, μPD78F4216AYGF-3BA, μPD78F4218AYGF-3BA



Notes 1. Connect the VPP pin to Vss directly or via a pull-down resistor in normal operation mode. Connect the VPP pin to Vss via a pull-down resistor in a system in which the on-chip flash memory is written while mounted on the target board. For the pull-down connection, it is recommended to use a resistor with a resistance ranging from  $470~\Omega$  to  $10~\text{k}\Omega$ .

- 2. Connect the AVDD pin to VDD.
- 3. Connect the AVss pin to Vss.
- 5. The EXA pin is available in the  $\mu$ PD78F4218A, 78F4218AY only.

### DPR 1001/2002 MICOM PIN DESCRIPTION

P60	Pin	Pin Name	I/O	Mark	Function
3	1	P60	out	pt_4382_rst	
4         P63         out         pt_addr17           5         P64         out         pt_addr16           6         P65         out         pt_addr15           7         P66         out         pt_4114_scclk, pt_4382_scclk           8         P67         out         pt_4114_sdin, pt_4382_sdin           9         Vdd         connect Vdd           10         P100         out         pt_49326_cs           11         P101         in         pt_49326_sdo           12         P102         out         pt_49326_sdo           13         P103         out         pt_49326_st           14         P30         out         pt_descript           14         P30         out         pt_descript           15         P31         out         pt_descript           16         P32         out         pt_coax_io           17         P33         out         pt_descript           18         P34         in         pt_4114_cs           20         P36         out         pt_descript           21         P37         out         pt_4100_ctk           22         Vpp         p	2	P61	out	pt_4382_cs	
5         P64         out         pt_addr16           6         P65         out         pt_addr15           7         P66         out         pt_4114_scclk, pt_4382_scclk           8         P67         out         pt_4114_sdin, pt_4382_sdin           9         Vdd         connect Vdd           10         P100         out         pt_49326_cs           11         P101         in         pt_49326_sdo           12         P102         out         pt_49326_rst           14         P30         out         pt_pld_mode0           15         P31         out         pt_pld_mode0           15         P31         out         pt_coax io           17         P33         out         pt_4114_rst           18         P34         in         pt_4114_rst           18         P34         in         pt_4114_rst           19         P35         out         pt_pld_mode1           21         P37         out         pt_dod           21         P37         out         pt_4100_clk2           22         Vpp         pt_4100_clk2           23         P90         out <td< td=""><td>3</td><td>P62</td><td>out</td><td>pt_addr18</td><td></td></td<>	3	P62	out	pt_addr18	
6         P65         out         pt_addr15           7         P66         out         pt_4114_scclk, pt_4382_scclk           8         P67         out         pt_4114_sdin, pt_4382_sdin           9         Vdd         connect Vdd           10         P100         out         pt_49326_cs           11         P101         in         pt_49326_sdo           12         P102         out         pt_49326_st           13         P103         out         pt_91d_mode0           15         P31         out         pt_pld_mode0           15         P31         out         pt_ocax io           16         P32         out         pt_coax io           17         P33         out         pt_4114_rst           18         P34         in         pt_4114_cs           19         P35         out         pt_4114_cs           20         P36         out         pt_pld_mode1           21         P37         out         pt_4100_ct           22         Vpp         22           23         P90         out         pt_4100_ct           24         P91         out         pt_410	4	P63	out	pt_addr17	
7         P66         out         pt.4114_sclk, pt.4382_sclk           8         P67         out         pt.4114_sdin, pt.4382_sdin           9         Vdd         connect Vdd           10         P100         out         pt.49326_cs           11         P101         in         pt.49326_cs           11         P101         in         pt.49326_cs           12         P102         out         pt.49326_cs           13         P103         out         pt.49326_cst           14         P30         out         pt.49326_cst           14         P30         out         pt.49326_cst           14         P30         out         pt.402_coxt           15         P31         out         pt.912_coxt           16         P32         out         pt.202_coxt           17         P33         out         pt.4114_st           18         P34         in         pt.4114_st           19         P35         out         pt.4114_cs           20         P36         out         pt.4100_ct           21         P37         out         pt.4100_ct           22         Vpp <td>5</td> <td>P64</td> <td>out</td> <td>pt_addr16</td> <td></td>	5	P64	out	pt_addr16	
7         P66         Out         pt_4382_scclk pt_4114_sdin, pt_4382_sdin           9         Vdd         connect Vdd           10         P100         out         pt_49326_cs           11         P101         in         pt_49326_sdo           12         P102         out         pt_49326_abt           13         P103         out         pt_910_mode0           15         P31         out         pt_pld_mode0           15         P31         out         pt_pld_mode0           17         P33         out         pt_4114_rst           18         P34         in         pt_4114_sdo           19         P35         out         pt_4114_cs           20         P36         out         pt_denode1           21         P37         out         pt_vid4_mute           22         Vpp         23         P90         out         pt_4100_clk2           25         P92         out         pt_4100_clk1         pt_4100_clk1           26         P93         out         pt_4100_clk1         pt_4100_clk1           27         P94         out         pt_multi_sel         pt_4100_clk1           28 <td>6</td> <td>P65</td> <td>out</td> <td>pt_addr15</td> <td></td>	6	P65	out	pt_addr15	
P67	7	Pee	Out	pt_4114_scclk,	
9		1 00	out		
9 Vdd	8	P67	out	. – – .	
10			out	pt_4382_sdin	
11         P101         in         pt 49326_sdo           12         P102         out         pt 49326_abt           13         P103         out         pt 49326_rst           14         P30         out         pt pld_mode0           15         P31         out         pt pld_rst           16         P32         out         pt_coax io           17         P33         out         pt 4114_rst           18         P34         in         pt 4114_sdo           19         P35         out         pt 410_cd           20         P36         out         pt depended           21         P37         out         pt vid4 mute           22         Vpp         23         P90         out         pt 4100_clk2           24         P91         out         pt 4100_clk2         25           25         P92         out         pt 4100_rd         24           26         P93         out         pt 4100_rst         28           28         P95         out         pt 49326_sclk           30         P121         out         pt 49326_sclk           31         P122         ou					connect Vdd
12					
13					
14         P30         out         pt_pld_mode0           15         P31         out         pt_pld_rst           16         P32         out         pt_coax_io           17         P33         out         pt_4114_rst           18         P34         in         pt_4114_cs           19         P35         out         pt_4114_cs           20         P36         out         pt_december           21         P37         out         pt_december           21         P37         out         pt_vid4_mute           22         Vpp         volume         pt_4100_dt           24         P91         out         pt_4100_clk2           25         P92         out         pt_4100_clk2           25         P93         out         pt_4100_pd           26         P93         out         pt_4100_rst           28         P95         out         pt_4100_rst           29         P120         out         pt_49326_sclk           30         P121         out         pt_4382_mute           32         P123         out         pt_4382_smute           33         P124	$\vdash$				
15         P31         out         pt_pld_rst           16         P32         out         pt_coax_io           17         P33         out         pt_4114_rst           18         P34         in         pt_4114_sdo           19         P35         out         pt_4114_cs           20         P36         out         pt_pld_mode1           21         P37         out         pt_vid4_mute           22         Vpp         Vp           23         P90         out         pt_4100_dt           24         P91         out         pt_4100_clk2           25         P92         out         pt_4100_clk1           26         P93         out         pt_4100_pd           27         P94         out         pt_multi_sel           28         P95         out         pt_49326_scclk           30         P121         out         pt_49326_sclk           31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_mute           33         P124         out         pt_4382_mute           34         P125         out         <					
16         P32         out         pt_coax io           17         P33         out         pt_4114_rst           18         P34         in         pt_4114_sdo           19         P35         out         pt_4114_cs           20         P36         out         pt_pld_mode1           21         P37         out         pt_vid4_mute           22         Vpp         Vp           23         P90         out         pt_4100_dt           24         P91         out         pt_4100_clk2           25         P92         out         pt_4100_clk1           26         P93         out         pt_4100_pd           27         P94         out         pt_multi_sel           28         P95         out         pt_49326_sclk           30         P121         out         pt_49326_sclk           31         P122         out         pt_4382_f mute           32         P123         out         pt_4382_mute           33         P124         out         pt_4382_mute           34         P125         out         pt_4382_mute           36         P127         out	-				
17         P33         out         pt_4114_rst           18         P34         in         pt_4114_sdo           19         P35         out         pt_4114_cs           20         P36         out         pt_pld_mode1           21         P37         out         pt_vid4_mute           22         Vpp					
18         P34         in         pt_4114_sdo           19         P35         out         pt_4114_cs           20         P36         out         pt_pld_mode1           21         P37         out         pt_vid4_mute           22         Vpp		<del> </del>			
19         P35         out         pt_91414_cs           20         P36         out         pt_pld_mode1           21         P37         out         pt_vid4_mute           22         Vpp         P91         out         pt_4100_dt           24         P91         out         pt_4100_clk2         P92           25         P92         out         pt_4100_clk1         P94           26         P93         out         pt_4100_pd         P94           27         P94         out         pt_multi_sel         P95           28         P95         out         pt_4100_rst         P95           29         P120         out         pt_49326_sclk           30         P121         out         pt_4382_fmute           32         P123         out         pt_4382_cmute           33         P124         out         pt_4382_mute           34         P125         out         pt_4382_mute           35         P126         out         pt_4382_mute           36         P127         out         pt_4382_mute           37         Vdd         Vdd           38         X2 <td></td> <td></td> <td></td> <td></td> <td></td>					
20         P36         out         pt_pld_mode1           21         P37         out         pt_vid4_mute           22         Vpp	$\vdash$				
21         P37         out         pt_vid4_mute           22         Vpp					
22         Vpp         23         P90         out         pt_4100_dt           24         P91         out         pt_4100_clk2           25         P92         out         pt_4100_pd           26         P93         out         pt_4100_pd           27         P94         out         pt_multi_sel           28         P95         out         pt_4100_rst           29         P120         out         pt_49326_sclk           30         P121         out         pt_49326_sdin           31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         S           38         X2         S           39         X1         in           40         Vss         GND           41         XT2         S           42         X					
23         P90         out         pt_4100_clk2           24         P91         out         pt_4100_clk2           25         P92         out         pt_4100_clk1           26         P93         out         pt_4100_pd           27         P94         out         pt_multi_sel           28         P95         out         pt_4100_rst           29         P120         out         pt_49326_sclk           30         P121         out         pt_49326_sdin           31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         S           38         X2         S           39         X1         in           40         Vss         GND           41         XT2         S           42         XT1         in         <		1	out	pt_vid4_mute	
24         P91         out         pt_4100_clk2           25         P92         out         pt_4100_clk1           26         P93         out         pt_4100_pd           27         P94         out         pt_multi_sel           28         P95         out         pt_4100_rst           29         P120         out         pt_49326_scclk           30         P121         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         38         X2           39         X1         in           40         Vss         GND           41         XT2         42           42         XT1         in           44         P00/INTP0         in         pt_rmc					
25         P92         out         pt_4100_clk1           26         P93         out         pt_4100_pd           27         P94         out         pt_multi_sel           28         P95         out         pt_4100_rst           29         P120         out         pt_49326_scclk           30         P121         out         pt_49326_sdin           31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         38         X2           39         X1         in           40         Vss         GND           41         XT2         GND           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc					
26         P93         out         pt_4100_pd           27         P94         out         pt_multi_sel           28         P95         out         pt_4100_rst           29         P120         out         pt_49326_scclk           30         P121         out         pt_49326_sdin           31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         Vdd           38         X2         S           39         X1         in           40         Vss         GND           41         XT2         S           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc					
27         P94         out         pt_multi_sel           28         P95         out         pt_4100_rst           29         P120         out         pt_49326_scclk           30         P121         out         pt_49326_sdin           31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         State of the state of				•	
28         P95         out         pt_4100_rst           29         P120         out         pt_49326_scclk           30         P121         out         pt_49326_sdin           31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         Vdd           38         X2           39         X1         in           40         Vss         GND           41         XT2         GND           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc					
29         P120         out         pt_49326_scclk           30         P121         out         pt_49326_sdin           31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         Vdd           38         X2           39         X1         in           40         Vss         GND           41         XT2           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc		•			
30         P121         out         pt_49326_sdin           31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         State of the state					
31         P122         out         pt_4382_f_mute           32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         Vdd           38         X2         Strain           39         X1         in           40         Vss         GND           41         XT2         GND           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc					
32         P123         out         pt_4382_c_mute           33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         Vdd           38         X2         Strain in           40         Vss         GND           41         XT2         Strain in           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc					
33         P124         out         pt_4382_s_mute           34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         38         X2           39         X1         in         GND           40         Vss         GND         GND           41         XT2         GND         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc					
34         P125         out         pt_2100_pd           35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         Vdd           38         X2         Strain Str					
35         P126         out         pt_4382_w_mute           36         P127         out         pt_4382_b_mute           37         Vdd         Vdd           38         X2         Strain S					
36         P127         out         pt_4382_b_mute           37         Vdd            38         X2            39         X1         in           40         Vss         GND           41         XT2            42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc					
37         Vdd           38         X2           39         X1           40         Vss           41         XT2           42         XT1           43         RESET           44         P00/INTP0           in         pt_rmc					
38         X2           39         X1         in           40         Vss         GND           41         XT2         GND           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc			out	ρι_ <del>1</del> 002_b_mαιθ	
39         X1         in           40         Vss         GND           41         XT2         GND           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc					
40         Vss         GND           41         XT2         GND           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc			in		
41         XT2           42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc		<del> </del>			GND
42         XT1         in         GND           43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc		1			0.112
43         RESET         in         system reset           44         P00/INTP0         in         pt_rmc			in		GND
44 P00/INTP0 in pt_rmc			_		
<del>                                     </del>				pt rmc	
I 45 PUT/INTPTEIN EDITINTED I	45	P01/INTP1	in	pt_intreq	

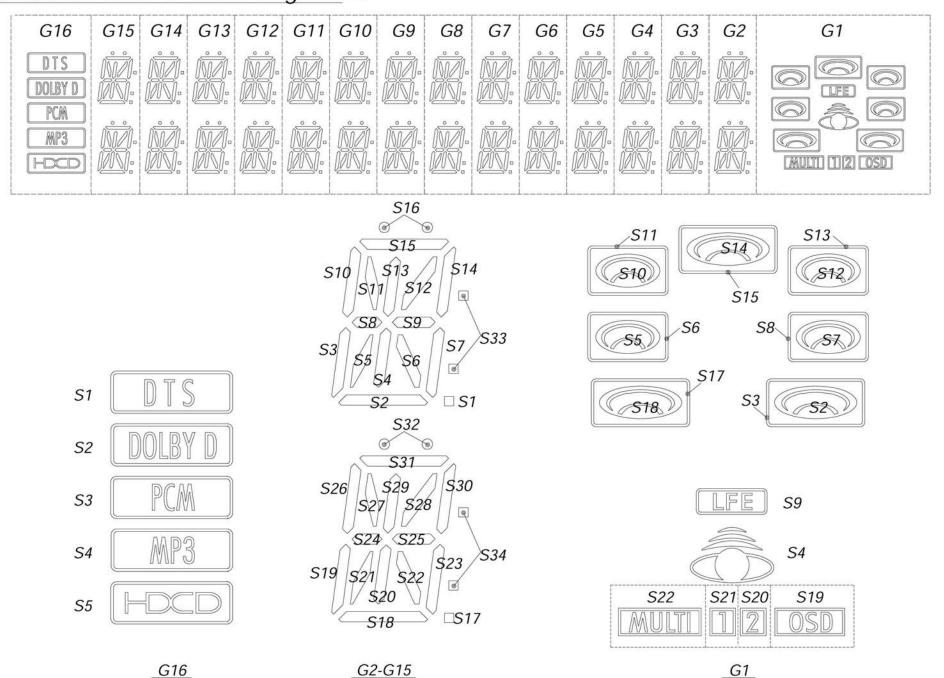
46	P02/INTP2	in	pt_rdsclk	
47	P03/INTP3	in	pt_mlt	
48	P04/INTP4	in	pt_grid_in	
49	P05/INTP5	in	pt_pll_dout	
50	P06/INTP6	out	pt_pll_ce	
51	Avdd		<u> </u>	connect Vdd
52	AVref0			connect Vdd
53	P10	in	pt_tu_opt	RDS/FM_O/1001
54	P11	in	pt_key_b	
55	P12	in	pt_key_a	
56	P13	in	pt_hp_out	
57	P14	in	pt_pwr_dn	
58	P15	in	pt_rds_data	
59	P16	in	pt_stereo	
60	P17	in	pt_tuned	
61	Avss			GND
62	P130	out	pt_24c_clk	
63	P131	out	pt_24c_data	
64	Avref1			-
65	P70	in		SI2
66	P71	out		SO2
67	P72	out		SCK2
68	P20	out	pt_pll_clk, pt_v_4094_clk	
69	P21	out	pt_pll_dt, pt_v_4094_dt	
70	P22	out	pt_v_4094_ce	
71	P23	in	pt_v_sync	
72	P24	out		not used
73	P25	out	pt_hp_mute	
74	P26	out	pt_mlt_mute	
75	P27	out	pt_rec_mute	
76	P80	out	pt_35017_ce	-
77	P81	out	pt_35017_clk	
78	P82	out	pt_9273_ce2	
79	P83	out	pt_9273_ce1	
	D0.4	4	pt_9459_clk,	
80	P84	out	pt_78213_clk,	
			pt_9273_clk	
01	D95	Out	. – – ·	
01	F 65	out	•	
82	P86	Out		
	t			
	1			
	t			
88	P44	out	pt_l_4094_clk	
81 82 83 84 85 86 87	P85  P86  P87  P40  P41  P42  P43  P44	out	pt_9459_dt, pt_78223_dt, pt_9273_dt pt_9459_cs pt_78213_ce pt_tnr_mute pt_pwr_rly pt_75725_ce1 pt_75725_ce2 pt_75725_clk,	

89	P45	out	pt_75725_dt, pt_I_4094_dt	
90	P46	out	pt_blk_1	
91	P47	out	pt_blk_2	
92	P50	in	pt_enc_b	
93	P51	in	pt_enc_a	
94	P52	out	pt_I_4094_ce	
95	P53	out		not used
96	P54	out		not used
97	P55	out	pt_pwr_led	
98	P56	out	pt_front_5v	
99	P57	out	pt_35017_dt	
100	AVss			GND

### **IC DATA SHEET**

### CM2052G:Anode & Grid Assignment

Sheet 4/5
Ise Electronics Corporation



Sheet 5/5
Ise Electronics Corporation

### CM2052G:Anode & Grid Assignment

	G1	G2-G15	G16
S1		S1	S1
S2	S2	S2	<i>S2</i>
S3	S3	S3	S3
S4	S4	S4	S4
S5	S5	S5	S5
<i>S6</i>	<i>S6</i>	S6	
<i>S</i> 7	<i>S</i> 7	<i>S</i> 7	
S8	S8	S8	
<i>S9</i>	<i>S9</i>	<i>S9</i>	
S10	S10	S10	
S11	S11	S11	
S12	S12	S12	
S13	S13	S13	

	G1	G2-G15	G16
S14	S14	S14	
S15	S15	S15	
S16		S16	
S17	S17	S17	
S18	S18	S18	
S19	S19	S19	
S20	S20	S20	
S21	S21	S21	
S22	S22	S22	
S23		S23	
S24		S24	
S25		S25	
S26		S26	

	G1	G2-G15	G16
S27	/	S27	
S28		S28	
S29	/	S29	
S30	/	S30	
S31	/	S31	
S32	/	S32	/
S33	/	S33	
S34		S34	

### PIN ASSIGNMENT

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Assignment	F1	NL (F1)	F1	NP	NL	S1	<i>S2</i>	<i>S3</i>	<i>S4</i>	S5	<i>S6</i>	<i>S</i> 7	S8	<i>S9</i>	S10	S11	S12	S13	S14	S15	S16	G16
Pin No.	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Assignment	G15	G14	G13	G12	G11	G10	G9	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	NL	NL	S27	S28	S29
Pin No.	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		
Assignment	S30	S31	S32	S33	S34	NL	NL	G8	G7	G6	G5	G4	G3	G2	G1	NL	NP	F2	NL (F2)	F2		

### **IC DATA SHEET**

### LC75725E

#### Overview

The LC75725E is a 1/4 to 1/11 duty dynamic drive VFD driver. It provides 43 segment outputs and 11 digit outputs. It facilitates the construction of display systems operating under the control of a controller.

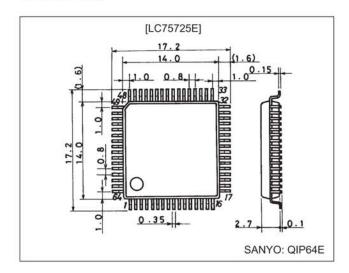
#### **Features**

- Dynamic drive display technique to display four to eleven digits on the VFD.
- Serial data input supports CCB* format communication with the system controller.
- The dimmer level is controlled by serial data input. (The dimmer has a resolution of 10 bits.)
- High generality since display data is displayed without the intervention of a decoder.
- All segments can be turned off with the BLK pin.
- · CR oscillator circuit.
  - CCB is a trademark of SANYO ELECTRIC CO., LTD.
  - CCB is SANYO's original bus format and all the bus addresses are controlled by SANYO.

#### **Package Dimensions**

unit: mm

#### 3159-QFP64E



#### **Specifications**

Absolute Maximum Ratings at  $Ta = 25^{\circ}C$ ,  $V_{SS} = 0 \text{ V}$ 

Parameter	Symbol	Conditions	Ratings	Unit
V	V _{DD} max	V _{DD}	-0.3 to +6.5	17
Maximum supply voltage	V _{FL} max	V _{FL}	V _{DD} – 47 to V _{DD} +0.3	V
■ Dr. de talliga e titologia (agranga e tito	V _{IN} 1	DI, CL, CE, BLK	-0.3 to +6.5	
Input voltage	V _{IN} 2	OSCI	-0.3 to V _{DD} +0.3	V
	V _{OUT} 1	S1 to S43, G1 to G11	V _{DD} – 47 to V _{DD} +0.3	V
Output voltage	V _{OUT} 2	osco	-0.3 to V _{DD} +0.3	V
**** 1	l _{OUT} 1	S1 to S43	10	(4)
Output current	I _{OUT} 2	G1 to G11	30	mA
Allowable power dissipation	Pd max	Ta = 85°C	300	mW
Operating temperature	Topr		-40 to +85	°C
Storage temperature	Tstg		-50 to +150	°C

#### LC75725E

### Allowable Operating Ranges at Ta = -40 to +85°C, $V_{DD}$ = 4.5 to 5.5 $V,\,V_{SS}$ = 0 V

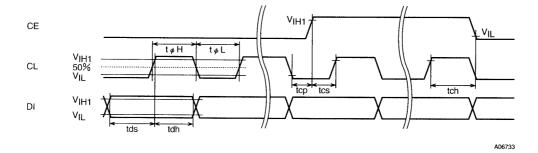
Doromotor	Cumbal	Conditions			Ratings				
Parameter	Symbol	Conditions	Conditions		typ	max	Unit		
0 1 1	V _{DD}	V _{DD}		4.5	5.0	5.5	.,		
Supply voltage	V _{FL}	V _{FL}		V _{DD} – 45		V _{DD}	V		
land bink land with a	V _{IH} 1	DI, CL, CE, BLK		0.8 V _{DD}		5.5	.,		
Input high-level voltage	V _{IH} 2	OSCI		0.8 V _{DD}		V _{DD}	V		
Input low-level voltage	V _{IL}	DI, CL, CE, BLK, OSCI		0		0.2 V _{DD}	V		
Guaranteed oscillator range	fosc	OSCI, OSCO		1.8	3.7	4.9	MHz		
Recommended external resistance	R _{OSC}	OSCI, OSCO		1.0	5.6	22	ΚΩ		
Recommended external capacitance	C _{OSC}	OSCI, OSCO		10	22	47	pF		
Low level clock pulse width	t _{øL}	CL	Figure 1	0.5			μs		
High level clock pulse width	t _{øH}	CL	Figure 1	0.5			μs		
Data setup time	t _{ds}	DI, CL	Figure 1	0.5			μs		
Data hold time	t _{dh}	DI, CL	Figure 1	0.5			μs		
CE wait time	t _{cp}	CE, CL	Figure 1	0.5			μs		
CE setup time	t _{cs}	CE, CL	Figure 1	0.5			μs		
CE hold time	t _{ch}	CE, CL	Figure 1	0.5			μs		
BLK switching time	t _c	BLK, CE	Figure 3	10			μs		

### **Electrical Characteristics** in the Allowable Operating Ranges

Parameter	Symbol	Conditions		Ratings		Unit
Parameter	Symbol	Conditions	min	typ	max	Unit
land bish land some	I _{IH} 1	DI, CL, CE, BLK: V _I = 5.5 V			5	
Input high-level current	I _{IH} 2	OSCI:V _I = V _{DD}		5		μA
Input low-level current	I _{IL}	DI, CL, CE, $\overline{BLK}$ : $V_I = 0 V$	-5			μA
	V _{OH} 1	S1 to S43: I _O = 5 mA	V _{DD} – 2.0			
Output high-level voltage	V _{OH} ²	G1 to G11: I _O = 20 mA	V _{DD} – 2.0			V
	V _{OH} 3	OSCO: I _O = 0.5 mA	V _{DD} – 2.0			
Output low-level voltage	V _{OL}	OSCO: $I_O = -0.5 \text{ mA}$			2.0	V
Output off voltage	V _{OFF}	S1 to S43, G1 to G11: $V_{FL} = V_{DD} - 45 V$ , Outputs off			V _{DD} – 44	٧
Pull-down resistors	R _{PD}	S1 to S43, G1 to G11: $V_{FL} = V_{DD} - 45 V$ , $V_O = V_{DD}$	50	100	200	kΩ
Oscillator frequency	fosc	OSCI, OSCO: $R_{OSC} = 5.6 \text{ k}\Omega$ , $C_{OSC} = 22 \text{ pF}$		3.7		MHz
Hysteresis voltage	V _H	DI, CL, CE, BLK		0.1 V _{DD}		V
Current drain	I _{DD}	$V_{DD}$ : Outputs open. Display off, $f_{OSC} = 3.7$ MHz, $V_{FL} = V_{DD} - 45$ V			5	mA

#### LC75725E

#### 1. When CL is stopped at the low level



#### 2. When CL is stopped at the high level

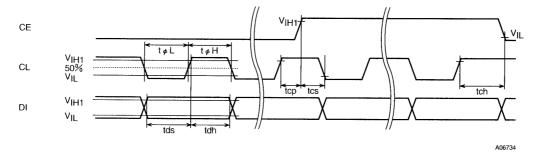
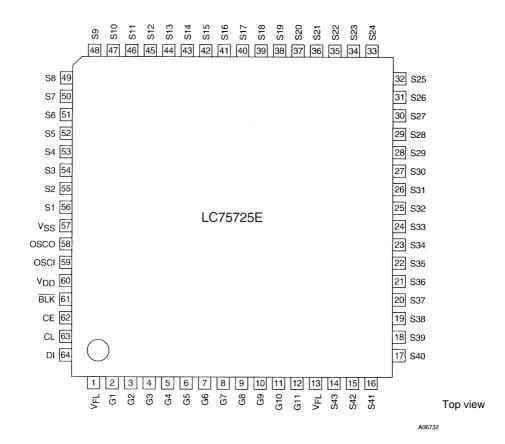


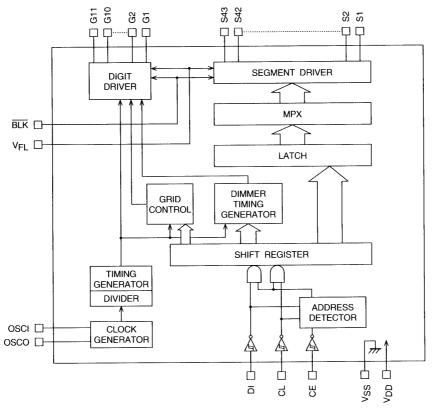
Figure 1

#### **Pin Assignment**



#### LC75725E

#### **Block Diagram**



A06735

#### **Pin Functions**

Dir	Di- N-	Francisco	1/0	Handling out on consend
Pin	Pin No.	Function	I/O	Handling when unused
V _{FL}	1, 13	Driver block power supply connection. (Both pins must be connected.)		_
$V_{DD}$	60	Logic block power supply connection. Provide a voltage between 4.5 and 5.5 V.		_
V _{SS}	57	Power supply connection. Connect to the ground.		_
OSCI	59	Oscillator connection. An oscillator circuit is formed by connecting an external resistor	I	GND
osco	58	and capacitor to these pins.	0	OPEN
BLK	61	Display off control input.  BLK = Low (V _{SS} ) Display off. (S1 to S43 and G1 to G11 at V _{FL} level.)  BLK = High (V _{DD} ) Display on.  Note that serial data can be transferred while the display is turned off.	I	GND
CL	63	Serial data transfer inputs. These pins must be connected to the system microcontroller.		
DI	64	CL: Synchronization clock DI: Transfer data	I	GND
CE	62	CE: Chip enable		
G1 to G11	2 to 12	Digit outputs. These pins are P-channel open drain outputs with pull-down resistors.	0	OPEN
S1 to S43	56 to 14	Segment outputs for displaying the display data transferred by serial data input. These pins are P-channel open drain outputs with pull-down resistors.	0	OPEN

### CS49326

## Multi-Standard Audio Decoder Family

#### **Features**

- CS4930X: DVD Audio Sub-family
  - PES layer decode for A/V sync
  - DVD Audio Pack Layer Support
- Meridian Lossless Packing (MLP)™

- Dolby Digital™
   MPEG Multi-Channel
   DTS Digital Surround™
- CS4931X: Broadcast Sub-family
- PES layer decode for A/V sync
- MPEG Advanced Audio Coding Algorithm (AAC)
- MPEG Multi Channel
- Dolby Digital
- CS4932X: AVR Sub-family
- Dolby Digital with integrated code
- DTS decoding with integrated DTS tables & code
- Crystal Original Surround with integrated code
- MPEG Advanced Audio Coding Algorithm (AAC)
- MPEG Multi-Channel
- CS4933X: General Purpose Audio DSP
  - THX™ and THX Surround EX
  - Car Audio
  - Mixer Applications
- Features are a super-set of the CS4923/4/5/6/7/8
  - 8 channel output, including dual zone output capability
  - Supports up to 192 kHz Fs @ 24 bit throughput
  - Increased memory/MIPs
  - SRAM Interface for increased delay and buffer capability
  - MPEG Layer 3 (MP3)

#### **Description**

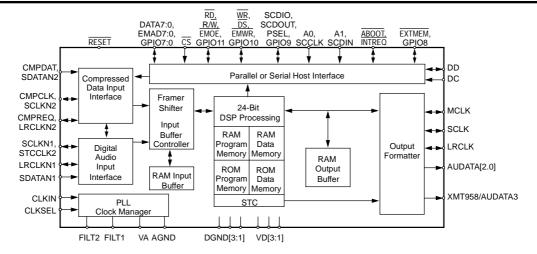
The CS493XX is a family of multichannel audio decoders intended to supersede the CS4923/4/5/6/7/8 family as the leader of audio decoding in both the DVD, broadcast and receiver markets. The family will be split into parts tailored for each of these distinct market segments.

For the DVD market, parts will be offered which support Meridian Lossless Packing (MLP), Dolby Digital, MPEG Multi-Channel, DTS and subsets thereof. For the receiver market, parts will be offered which support Dolby Digital, MPEG Multi-Channel, DTS, AAC and subsets thereof. For the broadcast market parts will be offered which support Dolby Digital, MPEG Advanced Audio Coding (AAC), and MPEG Multi-Channel.

Under the Crystal brand, Cirrus Logic is the only single supplier of high-performance 24-bit multi-standard audio DSP decoders, DSP firmware, and high-resolution data converters. This combination of DSPs, system firmware, and data converters simplify rapid creation of world-class high-fidelity products.

Ordering Information: See page 68

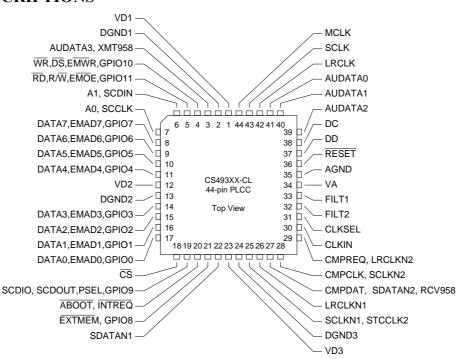
	APPLICATION	FEATURES
CS49300	DVD Audio	MLP, AC3, DTS and MPEG5.1
CS49310	Broadcast	AAC, AC3, MPEG5.1
CS49325	AVR	AC3(IBA), MPEG5.1
CS49326	AVR	AC3(IBA), DTS(IBA), MPEG5.1
CS49329	AVR	AC3(IBA), AAC, DTS, MPEG5.1, PCM Pass-through (IBA)
CS49330	Audio DSP	THX



Preliminary Product Information

This document contains information for a new product. Cirrus Logic reserves the right to modify this product without notice.

#### 11. PIN DESCRIPTIONS



#### VA—Analog Positive Supply: Pin 34

Analog positive supply for clock generator. Nominally +2.5 V.

#### AGND—Analog Supply Ground: Pin 35

Analog ground for clock generator PLL.

#### VD1, VD2, VD3—Digital Positive Supply: Pins 1, 12, 23

Digital positive supplies. Nominally +2.5 V.

#### DGND1, DGND2, DGND3—Digital Supply Ground: Pins 2, 13, 24

Digital ground.

#### FILT1—Phase-Locked Loop Filter: Pin 33

Connects to an external filter for the on-chip phase-locked loop.

#### FILT2—Phase Locked Loop Filter: Pin 32

Connects to an external filter for the on-chip phase-locked loop.

#### **CLKIN—Master Clock Input: Pin 30**

CS493XX clock input. When in internal clock mode (CLKSEL == DGND), this input is connected to the internal PLL from which all internal clocks are derived. When in external clock mode (CLKSEL == VD), this input is connected to the DSP clock. *INPUT* 

#### CLKSEL—DSP Clock Select: Pin 31

This pin selects the clock mode of the CS493XX. When CLKSEL is low, CLKIN is connected to the internal PLL from which all internal clocks are derived. When CLKSEL is high CLKIN is connected to the DSP clock. *INPUT* 

DATA7, EMAD7, GPIO7—Pin 8
DATA6, EMAD6, GPIO6—Pin 9
DATA5, EMAD5, GPIO5—Pin 10
DATA4, EMAD4, GPIO4—Pin 11
DATA3, EMAD3, GPIO3—Pin 14
DATA2, EMAD2, GPIO2—Pin 15
DATA1, EMAD1, GPIO1—Pin 16
DATA0, EMAD0, GPIO0—Pin 17

In parallel host mode, these pins provide a bidirectional data bus. If a serial host mode is selected, these pins can provide a multiplexed address and data bus for connecting an 8-bit external memory. Otherwise, in serial host mode, these pins can act as general-purpose input or output pins that can be individually configured and controlled by the DSP.

BIDIRECTIONAL - Default: INPUT

#### A0, SCCLK—Host Parallel Address Bit Zero or Serial Control Port Clock: Pin 7

In parallel host mode, this pin serves as one of two address input pins used to select one of four parallel registers. In serial host mode, this pin serves as the serial control clock signal, specifically as the SPI clock input or the I²C clock input. *INPUT* 

#### A1, SCDIN—Host Address Bit One or SPI Serial Control Data Input: Pin 6

In parallel host mode, this pin serves as one of two address input pins used to select one of four parallel registers. In SPI serial host mode, this pin serves as the data input. *INPUT* 

# RD, R/W, EMOE, GPIO11—Host Parallel Output Enable or Host Parallel R/W or External Memory Output Enable or General Purpose Input & Output Number 11: Pin 5

In Intel parallel host mode, this pin serves as the active-low data bus enable input. In Motorola parallel host mode, this pin serves as the read-high/write-low control input signal. In serial host mode, this pin can serve as the external memory active-low data-enable output signal. Also in serial host mode, this pin can serve as a general purpose input or output bit. BIDIRECTIONAL - Default: INPUT

WR, DS, EMWR

#### CMPCLK, SCLKN2—PCM Audio Input Bit Clock: Pin 28

Bidirectional digital-audio bit clock that is an output in master mode and an input in slave mode. In slave mode, SCLKN2 operates asynchronously from all other CS493XX clocks. In master mode, SCLKN2 is derived from the CS493XX internal clock generator. In either master or slave mode, the active edge of SCLKN2 can be programmed by the DSP. If the CDI is configured for bursty delivery, CMPCLK is an input used to sample CMPDAT. *BIDIRECTIONAL - Default: INPUT* 

#### CMPREQ, LRCLKN2—PCM Audio Input Sample Rate Clock: Pin 29

When the CDI is configured as a digital audio input, this pin serves as a bidirectional digital-audio frame clock that is an output in master mode and an input in slave mode. LRCLKN2 typically is run at the sampling frequency. In slave mode, LRCLKN2 operates asynchronously from all other CS493XX clocks. In master mode, LRCLKN2 is derived from the CS493XX internal clock generator. In either master or slave mode, the polarity of LRCLKN2 for a particular subframe can be programmed by the DSP. When the CDI is configured for bursty delivery, or parallel audio data delivery is being used, CMPREQ is an output which serves as an internal FIFO monitor. CMPREQ is an active low signal that indicates when another block of data can be accepted. BIDIRECTIONAL - Default: INPUT

#### CMPDAT, SDATAN2—PCM Audio Data Input Number Two: Pin 27

Digital-audio data input that can accept from one to six channels of compressed or PCM data. SDATAN2 can be sampled with either edge of SCLKN2, depending on how SCLKN2 has been configured. Similarly CMPDAT is the compressed data input pin when the CDI is configured for bursty delivery. When in this mode, the CS493XX internal PLL is driven by the clock recovered from the incoming data stream. *INPUT* 

#### DC—Reserved: Pin 38

This pin is reserved and should be pulled up with an external 4.7k resistor.

#### DD—Reserved: Pin 37

This pin is reserved and should be pulled up with an external 4.7k resistor.

#### 12. ORDERING INFORMATION

CS493002-CL 44-Pin PLCC	Temp Range 0-70° C
CS493102-CL 44-Pin PLCC	Temp Range 0-70° C
CS493253-CL 44-Pin PLCC	Temp Range 0-70° C
CS493263-CL 44-Pin PLCC	Temp Range 0-70° C
CS493292-CL 44-Pin PLCC	Temp Range 0-70° C

#### MCLK—Audio Master Clock: Pin 44

Bidirectional master audio clock. MCLK can be an output from the CS493XX that provides an oversampled audio-output clock at either 128 Fs, 256 Fs, or 512 Fs. MCLK can be an input at 128 Fs, 256 Fs, 384 Fs, or 512 Fs. MCLK is used to derive SCLK and LRCLK when SCLK and LRCLK are driven by the CS493XX. *BIDIRE CTIONAL - Default: INPUT* 

#### SCLK—Audio Output Bit Clock: Pin 43

Bidirectional digital-audio output bit clock. SCLK can be an output that is derived from MCLK to provide 32 Fs, 64 Fs, 128 Fs, 256 Fs, or 512 Fs, depending on the MCLK rate and the digital-output configuration. SCLK can also be an input and must be at least 48Fs or greater. As an input, SCLK is independent of MCLK. *BIDIRECTI ONAL - D efaul t: INPUT* 

#### LRCLK—Audio Output Sample Rate Clock: Pin 42

Bidirectional digital-audio output-sample-rate clock. LRCLK can be an output that is divided from MCLK to provide the output sample rate depending on the output configuration. LRCLK can also be an input. As an input LRCLK is independent of MCLK.

BIDIREC TIONAL - De fault: INPUT

#### AUDATA3,XMT958—SPDIF Transmitter Output, Digital Audio Output 3: Pin 3

CMOS level output that contains a biphase-encoded clock for synchronously providing two channels of PCM digital audio or a IEC61937 compressed-data interface or both. This output typically connects to the input of an RS-422 transmitter or to the input of an optical transmitter. Conversely this pin can be configured to be a third digital audio output. *OUTPUT* 

#### SCLKN1, STCCLK2—PCM Audio Input Bit Clock: Pin 25

Bidirectional digital-audio bit clock that is an output in master mode and an input in slave mode. In slave mode, SCLKN1 operates asynchronously from all other CS493XX clocks. In master mode, SCLKN1 is derived from the CS493XX internal clock generator. In either master or slave mode, the active edge of SCLKN1 can be programmed by the DSP. For applications supporting PES layer synchronization this pin can be used as STCCLK2, which provides a path to the internal STC 33 bit counter. *BIDIRECTIO NAL - De fault: INPUT* 

#### LRCLKN1—PCM Audio Input Sample Rate Clock: Pin 26

Bidirectional digital-audio frame clock that is an output in master mode and an input in slave mode. LRCLKN1 typically is run at the sampling frequency. In slave mode, LRCLKN1 operates asynchronously from all other CS493XX clocks. In master mode, LRCLKN1 is derived from the CS493XX internal clock generator. In either master or slave mode, the polarity of LRCLKN1 for a particular subframe can be programmed by the DSP. BIDIREC TIONAL - De fault: INPUT

#### SDATAN1—PCM Audio Data Input Number One: Pin 22

Digital-audio data input that can accept from one to six channels of compressed or PCM data. SDATAN1 can be sampled with either edge of SCLKN1, depending on how SCLKN1 has been configured. *INPUT* 

#### CMPCLK, SCLKN2—PCM Audio Input Bit Clock: Pin 28

Bidirectional digital-audio bit clock that is an output in master mode and an input in slave mode. In slave mode, SCLKN2 operates asynchronously from all other CS493XX clocks. In master mode, SCLKN2 is derived from the CS493XX internal clock generator. In either master or slave mode, the active edge of SCLKN2 can be programmed by the DSP. If the CDI is configured for bursty delivery, CMPCLK is an input used to sample CMPDAT. *BIDIRECTIONAL - Default: INPUT* 

#### CMPREQ, LRCLKN2—PCM Audio Input Sample Rate Clock: Pin 29

When the CDI is configured as a digital audio input, this pin serves as a bidirectional digital-audio frame clock that is an output in master mode and an input in slave mode. LRCLKN2 typically is run at the sampling frequency. In slave mode, LRCLKN2 operates asynchronously from all other CS493XX clocks. In master mode, LRCLKN2 is derived from the CS493XX internal clock generator. In either master or slave mode, the polarity of LRCLKN2 for a particular subframe can be programmed by the DSP. When the CDI is configured for bursty delivery, or parallel audio data delivery is being used, CMPREQ is an output which serves as an internal FIFO monitor. CMPREQ is an active low signal that indicates when another block of data can be accepted. BIDIRECTIONAL - Default: INPUT

#### CMPDAT, SDATAN2—PCM Audio Data Input Number Two: Pin 27

Digital-audio data input that can accept from one to six channels of compressed or PCM data. SDATAN2 can be sampled with either edge of SCLKN2, depending on how SCLKN2 has been configured. Similarly CMPDAT is the compressed data input pin when the CDI is configured for bursty delivery. When in this mode, the CS493XX internal PLL is driven by the clock recovered from the incoming data stream. *INPUT* 

#### DC—Reserved: Pin 38

This pin is reserved and should be pulled up with an external 4.7k resistor.

#### DD—Reserved: Pin 37

This pin is reserved and should be pulled up with an external 4.7k resistor.

#### 12. ORDERING INFORMATION

CS493002-CL 44-Pin PLCC	Temp Range 0-70° C
CS493102-CL 44-Pin PLCC	Temp Range 0-70° C
CS493253-CL 44-Pin PLCC	Temp Range 0-70° C
CS493263-CL 44-Pin PLCC	Temp Range 0-70° C
CS493292-CL 44-Pin PLCC	Temp Range 0-70° C

### **DDX-4100A**

#### **FEATURES**

- SOURCE-TO-SPEAKER INTEGRATED DIGITAL AUDIO SOLUTION w/DDX-2060 Power IC's
- DIGITAL PREAMP FUNCTIONS:
  - Digital Volume Control
  - Bass and Treble
  - Parametric EQ on each Channel
  - Bass Management for LFE Channel
  - Soft Mute
  - Automatic mute for Zero Inputs
- 4+1 CHANNELS DDX PROCESSING
- STEREO S/PDIF INPUT INTERFACE
- 4 CHANNEL PROGRAMMABLE SERIAL INPUT INTERFACE
- 6 CHANNEL PROGRAMMABLE SERIAL OUTPUT INTERFACE
- Intel AC'97 LINK (rev.2.1) INPUT INTERFACE for AUDIO AND CONTROL
- AUTOMATIC INPUT SAMPLING FREQUENCY DETECTION AND SAMPLE RATE CONVERTER
- I²C CONTROL BUS
- LOW POWER 3.3V CMOS TECHNOLOGY
- EXTERNAL INPUT CLOCK OR BUILT-IN XTAL OSCILLATOR
- DIGITAL GAIN CONTROL; UP TO +24dB @ 0.75dB/STEP

### DDX™ Multichannel Digital Audio Processor

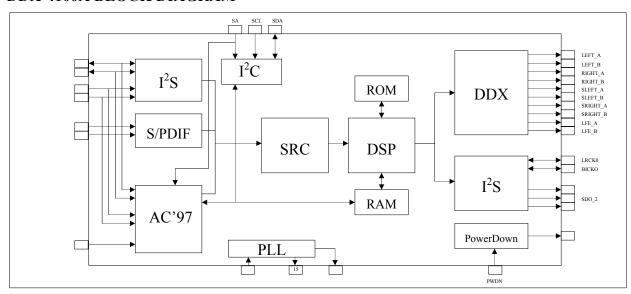
#### 1.0 GENERAL DESCRIPTION

The DDX-4100A Digital Audio Processor is a single chip device for implementing complete digital solutions for audio amplification. In conjunction with multiple DDX-2060 Power IC's, the solution provides a full digital, multi-channel, high quality, power processing chain without the need of Digital-to-Analog converters between the DSP and power amplifier.

The device supports two input configurations, AC'97 input mode or IIS/SPDIF input mode, with the selection made via a dedicated pin (AC97_MODE pin).

The AC'97 input mode can be configured to work in either a 'Fully Compliant' mode or a 'Proprietary' mode. The selection of this compliance mode is made in a Vendor Reserved register. The 'Fully Compliant' mode conforms to rev 2.1 of AC'97 specification. The 'Proprietary' mode enables additional features not found in the 'Fully Compliant' mode. The link supports up to 6 input channels with discrete sampling frequencies of 44.1, 48, 88.2, or 96 kHz.

#### DDX-4100A BLOCK DIAGRAM



#### 1.2 PIN FUNCTION

#### Table1

PIN     NAME     TYPE     DESCRIPTION       1     SDI_1/SDATA_ OUT     I Input I²S Serial Data 1/AC97 Output Data 1/AC97 Output Data 2/AC97 Input Data 2/AC97 Inpu	OUTPUT DRIVE Data
OUT (1 ² S mode maps to L,R DDX)	
2   05:_2/05/(1/(_1   1/0   1/1)pat 1 0 00:1ai	ta 2mA
N (l ² S mode maps to LS,RS DDX)	
3 LRCKI/SYNC I/O Input I ² S Left/Right Clock/AC97 Synch	n. 2mA
Clock	
4 BICKI/BIT_CLK I/O Input I ² S Serial Clock/AC97 Bit Clock	4mA
5 VDD_1 Digital Supply Voltage	
6 GND_1 Digital Ground	
7 RESET I Global Reset (Active Low) This pin	CMOS Schmitt
is sensed only after 2 clock cycles	In Pull-Up
8 AC97_Mode I AC97 Enable/Disable (1=AC97;	CMOS Schmitt
0=l ² S/SPDIF)	In Pull-Down
9 SDA I/O I ² C Serial Data	2mA
10 SCL I I ² C Serial Clock	
11 SA I Select Address (I2C/AC97)	
12 N/C Connect to ground or Leave open	CMOS In Pull-
	Down
13 VDD 2 Digital Supply Voltage	
14 XTI I Crystal Oscillator Input (Clock Input)	Analog IN
15 XTO O Crystal Oscillator Output Do Not Load	
16 GND 2 Digital Ground	
17 VCC Analog Supply Voltage	
18 RXP I S/PDIF receiver positive (L,R DDX)	Analog In
19 RXN I S/PDIF receiver negative (L,R DDX)	Analog In
20 VSS Analog Ground	- J
21 LFE_B O Pwm LFE (subwoofer) channel output	(B) 3mA
22 LFE_A O Pwm LFE (subwoofer) channel output	
23 SRIGHT_B O Pwm Surround right channel output (B	
24 SRIGHT_A O Pwm Surround right channel output (A	
25 GND_3 Digital Ground	
26 VDD_3 Digital Supply Voltage	
27 RIGHT_B O Pwm Right channel output (B)	3mA
28 RIGHT_A O Pwm Right channel output (A)	3mA
29 LEFT_B O Pwm Left channel output (B)	3mA
30 LEFT_A O Pwm Left channel output (A)	3mA
31 GND_4 Digital Ground	
32 VDD_4 Digital Supply Voltage	
33 SLEFT_B O Pwm Surround Left channel output (B)	) 3mA
34 SLEFT_A O Pwm Surround Left channel output (A)	
35 EAPD O External Amplifier Power down (Active	e 3mA
Low)	
36 LRCKO I/O I ² S Left/Right Clock	2mA
37 SDO_1 O I ² S Serial Data 1 Output (L,R)	2mA
38 SDO_2 O I ² S Serial Data 2 Output (LS,RS)	2mA
39 SDO_3 O I ² S Serial Data 3 Output (C,SUB)	2mA
40 BICKO I/O I ² S Serial Clock	4mA
41 GND_5 Digital Ground	
42 VDD_5 Digital Supply Voltage	
43 CKOUT O Clock Output (256fs or 512fs)	8mA
44 PWDN I Device Power down (Active Low)	CMOS In PullUp

### IC DATA SHEET

DDX-2100

# All-Digital High Efficiency Power Amplifier

#### **FEATURES**

- HIGH OUTPUT CAPABILITY
- 2 x 50W into 8Ω or 1 x 100W into 4Ω
- SINGLE SUPPLY (+9V to +36V)
- SMALL PACKAGE
- HIGH EFFICIENCY, >88%
- THERMAL OVERLOAD AND SHORT CIRCUIT PROTECTION

#### **BENEFITS**

- COMPLETE SURFACE MOUNT DESIGN
- POWER SUPPLY SAVINGS

#### **APPLICATIONS**

- DIGITAL POWERED SPEAKERS
- PC SOUND CARDS
- CAR AUDIO
- SURROUND SOUND SYSTEMS
- DIGITAL AUDIO COMPONENTS

#### **GENERAL DESCRIPTION**

The DDX-2100 power device is a monolithic dual channel H-Bridge that can provide up to 50 watts per channel of audio power at very high efficiency. The DDX-2100 power device contains a logic interface, integrated bridge drivers, high efficiency MOSFET output transistors and protection circuitry. The device may be used as a dual bridge or reconfigured as a single bridge with double the output current capability.

The benefits of the DDX amplification system are an all-digital design that eliminates the need for a digital to analog converter (DAC) and the high efficiency operation derived from the use of Apogee's patented damped ternary pulse width modulation (PWM). This approach provides an efficiency advantage over conventional Class-D designs and up to three times the efficiency of typical Class A/B amplifiers with music input signals.

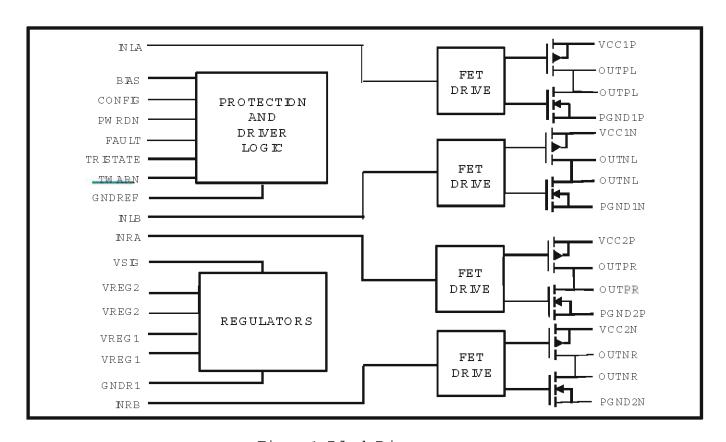


Figure 1.B lock Diagram

### **Electrical Characteristics (continued)**

- Note 1: Permanent device damage may occur if ABSOLUTE MAXIMUM RATINGS are exceeded. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.
- Note 2: Performance not guaranteed beyond recommended operating conditions.
- Note 3: Characteristics are for the DDX-2100 power device driven by DDX-2000 processor.

#### **Logic Truth Table**

TRISTATE	INxA	INxB	OUTPx	OUTNx	OUTPUT MODE
0	Х	Х	OFF	OFF	Hi-Z
1	0	0	GND	GND	DAMPED
1	0	1	GND	VCC	NEGATIVE
1	1	0	VCC	GND	POSITIVE
1	1	1	VCC	VCC	Not Used

### **DDX-2100 Pin Function Description**

#### **PWM Inputs**

Pin Name	Pin No.	Description
INLA	29	Left A logic input signal
INLB	30	Left B logic input signal
INRA	31	Right A logic input signal
INRB	32	Right B logic input signal

#### Control/Miscellaneous

Pin Name	Pin No.	Description		
PWRDN	25	Power Down (0=Shutdown, 1= Normal).		
TRI-STATE	26	Tri-State (0=All MOSFETS Hi-Z, 1=Normal).		
FAULT [Note 4]	27	Fault output indicator; Overcurrent Overtemperature (0=Fault, 1=Normal).		
TWARN [Note 4]	28	Thermal warning output (0=Warning T _J >= 130°C, 1=Normal).		
CONFIG [Note 5]	24	Configuration (0=Normal, 1=Parallel operation for mono).		
NC	18	Do not connect.		

#### Power Outputs [Note 6]

Pin Name	Pin No.	Description
OUTPL	16, 17	Left output, positive reference
OUTNL	10, 11	Left output, negative reference
OUTPR	8, 9	Right output, positive reference
OUTNR	2, 3	Right output, negative reference

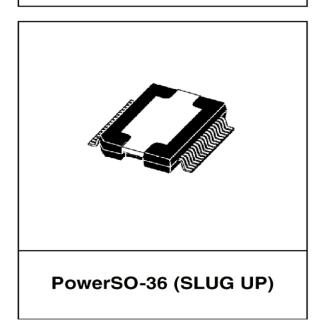
### **Power Supplies**

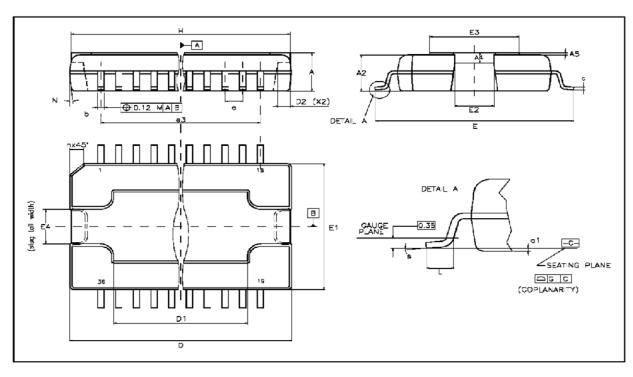
Pin Name	Pin No.	Description
VCC [1P, 1N, 2P, 2N]	4, 7, 12, 15	Power
PGND [1P, 1N, 2P, 2N]	5, 6, 13, 14	Power grounds
VREG1	21, 22	Internal regulator voltage requires bypass capacitor.
VREG2	33, 34	Internal regulator voltage requires bypass capacitor.
VSIG	35, 36	Signal Positive supply.
VL	23	Logic reference voltage.
GNDREF	19	Logic reference ground.
GNDS	1	Substrate ground.
GNDR1	20	Internal regulator ground.

### PHYSICAL DIMENSIONS (Dimensions shown in mm)

DIM.		mm			inch	
DIW.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
Α	3.25		3.5	0.128		0.138
A2		3.15			0.124	
A4	0.8		1	0.031		0.039
<b>A</b> 5		0.2			0.008	
a1	0		0.1	0		0.004
b	0.22		0.38	0.008		0.015
С	0.23		0.32	0.009		0.012
D	15.8		16	0.622		0.630
D1	9.4		9.8	0.37		0.38
D2		1			0.039	
E	13.9		14.5	0.547		0.57
E1	10.9		11.1	0.429		0.437
E2			2.9			0.114
E3	5.8		6.2	0.228		0.244
E4	2.9		3.2	0.114		1.259
е		0.65			0.026	
e3		11.05			0.435	
G	0		0.1	0		0.004
Н	15.5		15.9	0.61		0.625
h			1.1			0.043
L	0.8		1.1	0.031		0.043
N	10° (max)					
s	8° (max)					

# OUTLINE AND MECHANICAL DATA





### **IC DATA SHEET**

### AK4114VQ

### = Target Spec =

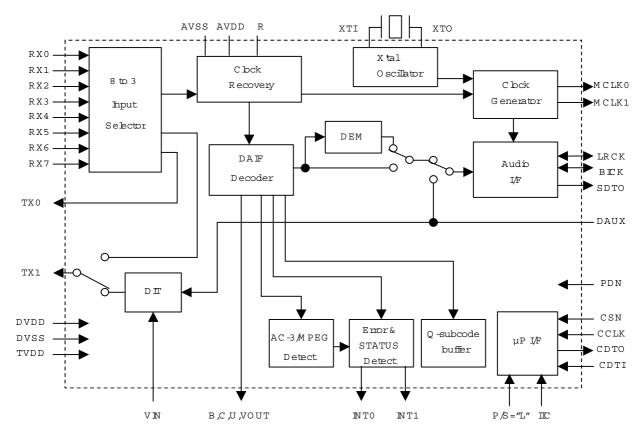
High Feature 192kHz 24bit Digital Audio Interface Transceiver

#### **GENERAL DESCRIPTION**

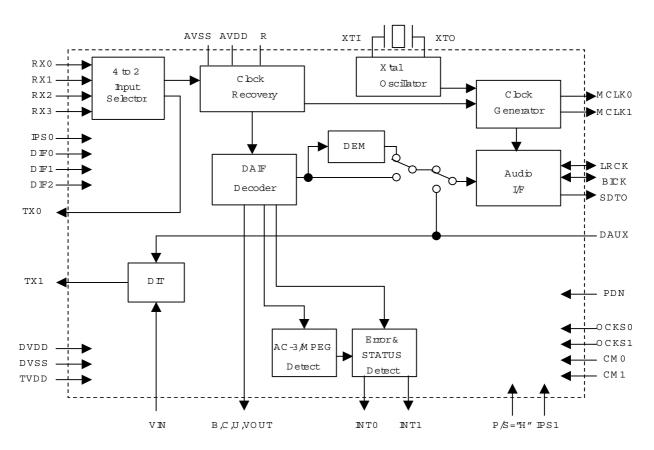
The AK4114 is a digital audio transceiver supporting 192kHz, 24bis. The channel status decoder supports both consumer and professionalmodes. The AK4114 can automatically detect a Non-PCM bit stream. When combined with the AK4527 multichannel codec, the two chips provide a system solution for AC-3 applications. The dedicated pins or a serial µP I/F can control the mode setting. The small package, 48pin LQFP saves the system space.

*AC-3 is a tradem ank of Doby Laboratories.

FEATURES	
☐ AES3, IEC60958, S/PDIF, EIAJ CP1201 Compatible	e
☐ Low jitter Analog PLL	
☐ PLL Lock Range : 32k~192kHz	
☐ Clock Source: PLL or X'tal	
□ 8-channel Receiver input	
☐ 2-channel Transmission output (Through output	or DIT)
☐ Auxiliary digital input	
□ De-emphasis for 32kHz, 44.1kHz, 48kHz and 96kH	łz
□ Detection Functions	
<ul> <li>Non-PCM Bit Stream Detection</li> </ul>	
<ul> <li>DTS-CD Bit Stream Detection</li> </ul>	
<ul> <li>Sampling Frequency Detection</li> </ul>	
(32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz,	176.4kHz, 192kHz)
<ul> <li>Unlock &amp; Parity Error Detection</li> </ul>	
Validity Flag Detection	
☐ Up to 24bit Audio Data Format	
☐ Audio I/F: Master or Slave Mode	
☐ 40-bit Channel Status Buffer	
☐ Burst Preamble bit Pc and Pd Buffer for Non-PCN	∕l bit stream
☐ Q-subcode Buffer for CD bit stream	
□ Serial µP I/F	
☐ Two Master Clock Outputs: 64fs/128fs/256fs/512f	s
☐ Operating Voltage: 2.7 to 3.6V with 5V tolerance	
☐ Small Package: 48pin LQFP	
☐ Ta: -10~70°C	



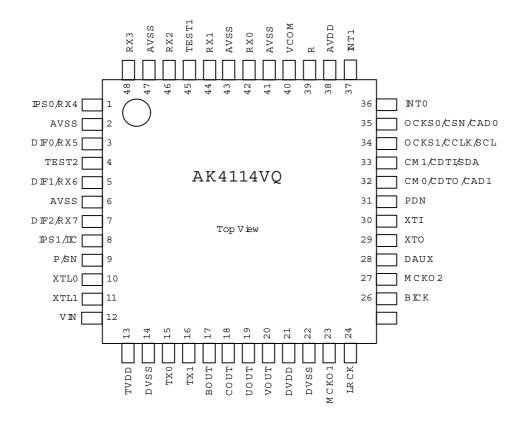
SerialControlM ode



#### **■** Ordering Guide

A K 4114V Q  $-10 \sim +70$  °C 48pin LQ FP (0.5m m pitch)

#### ■ Pin Layout



### M4A3-32/32

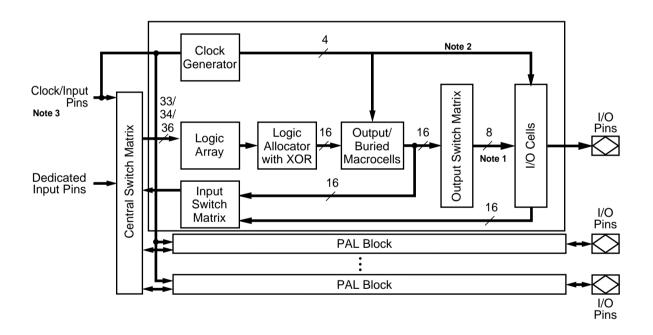
#### **FEATURES**

- ♦ High-performance, E²CMOS 3.3-V & 5-V CPLD families
- ◆ Flexible architecture for rapid logic designs
  - Excellent First-Time-FitTM and refit feature
  - SpeedLockingTM performance for guaranteed fixed timing
  - Central, input and output switch matrices for 100% routability and 100% pin-out retention
- ♦ High speed
  - 5.0ns t_{PD} Commercial and 7.5ns t_{PD} Industrial
  - 182MHz f_{CNT}
- ♦ 32 to 512 macrocells; 32 to 768 registers
- ◆ 44 to 388 pins in PLCC, PQFP, TQFP, BGA, fpBGA and caBGA packages
- ♦ Flexible architecture for a wide range of design styles
  - D/T registers and latches
  - Synchronous or asynchronous mode
  - Dedicated input registers
  - Programmable polarity
  - Reset/ preset swapping
- **◆** Advanced capabilities for easy system integration
  - 3.3-V & 5-V JEDEC-compliant operations
  - JTAG (IEEE 1149.1) compliant for boundary scan testing
  - 3.3-V & 5-V JTAG in-system programming
  - PCI compliant (-5/-55/-6/-65/-7/-10/-12 speed grades)
  - Safe for mixed supply voltage system designs
  - Programmable pull-up or Bus-FriendlyTM inputs and I/Os
  - Hot-socketing
  - Programmable security bit
  - Individual output slew rate control
- ♦ Advanced E²CMOS process provides high-performance, cost-effective solutions
- ◆ Supported by ispDesignEXPERTTM software for rapid logic development
  - Supports HDL design methodologies with results optimized for ispMACH 4A
  - Flexibility to adapt to user requirements
  - Software partnerships that ensure customer success

#### **FUNCTIONAL DESCRIPTION**

The fundamental architecture of ispMACH 4A devices (Figure 1) consists of multiple, optimized PAL® blocks interconnected by a central switch matrix. The central switch matrix allows communication between PAL blocks and routes inputs to the PAL blocks. Together, the PAL blocks and central switch matrix allow the logic designer to create large designs in a single device instead of having to use multiple devices.

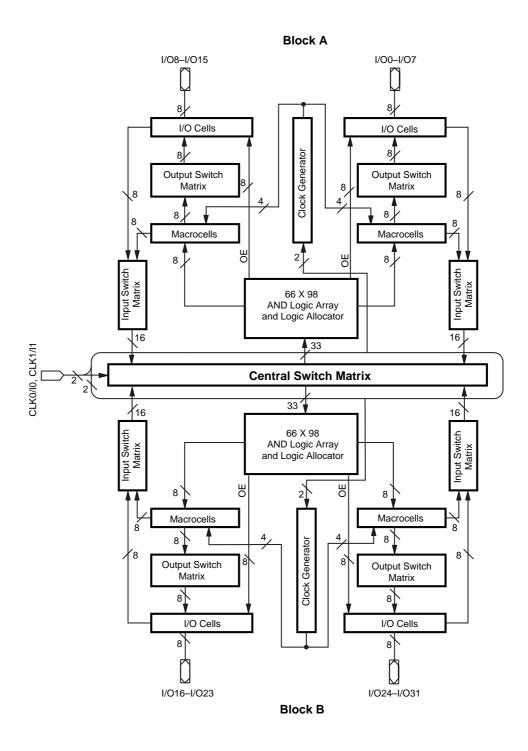
The key to being able to make effective use of these devices lies in the interconnect schemes. In the ispMACH 4A architecture, the macrocells are flexibly coupled to the product terms through the logic allocator, and the I/O pins are flexibly coupled to the macrocells due to the output switch matrix. In addition, more input routing options are provided by the input switch matrix. These resources provide the flexibility needed to fit designs efficiently.



#### Notes:

- 1. 16 for ispMACH 4A devices with 1:1 macrocell-I/O cell ratio (see next page).
- 2. Block clocks do not go to I/O cells in M4A(3,5)-32/32.
- 3. M4A(3,5)-192, M4A(3,5)-256, M4A3-384, and M4A3-512 have dedicated clock pins which cannot be used as inputs and do not connect to the central switch matrix.

### **BLOCK DIAGRAM - M4A(3,5)-32/32**

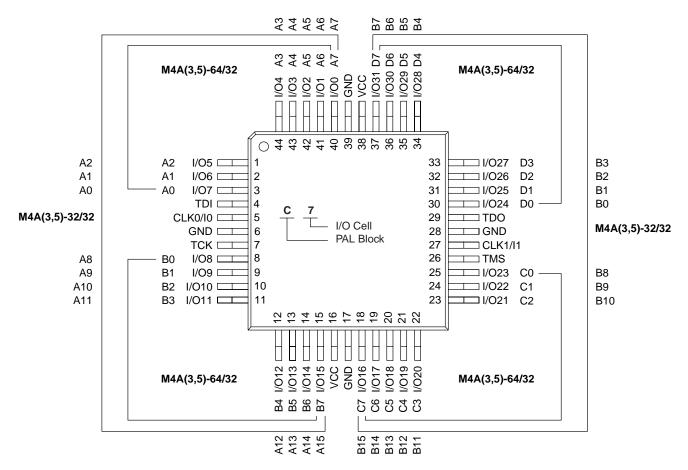


harman/kardon

### 44-PIN TQFP CONNECTION DIAGRAM (M4A(3,5)-32/32 AND M4A(3,5)-64/32)

### **Top View**

#### 44-Pin TQFP



#### PIN DESIGNATIONS

CLK/I = Clock or Input

GND = Ground

I/O = Input/Output

 $V_{CC}$  = Supply Voltage

TDI = Test Data In

TCK = Test Clock

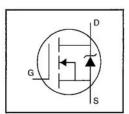
TMS = Test Mode Select

TDO = Test Data Out

#### **IRFP360**

#### HEXFET[®] Power MOSFET

- Dynamic dv/dt Rating
- · Repetitive Avalanche Rated
- Isolated Central Mounting Hole
- Fast Switching
- · Ease of Paralleling
- Simple Drive Requirements



$$V_{DSS} = 400V$$

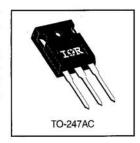
$$R_{DS(on)} = 0.20\Omega$$

$$I_{D} = 23A$$

#### Description

Third Generation HEXFETs from International Rectifier provide the designer with the best combination of fast switching, ruggedized device design, low on-resistance and cost-effectiveness.

The TO-247 package is preferred for commercial-industrial applications where higher power levels preclude the use of TO-220 devices. The TO-247 is similar but superior to the earlier TO-218 package because of its isolated mounting hole. It also provides greater creepage distance between pins to meet the requirements of most safety specifications.



#### **Absolute Maximum Ratings**

	Parameter	Max.	Units
I _D @ T _C = 25°C	Continuous Drain Current, VGS @ 10 V	23	
I _D @ T _C = 100°C	Continuous Drain Current, V _{GS} @ 10 V	14	A
Грм	Pulsed Drain Current ① 92		,
P _D @ T _C = 25°C	Power Dissipation	280	W
	Linear Derating Factor	2.2	W/°C
V _{GS}	Gate-to-Source Voltage	±20	V
Eas	Single Pulse Avalanche Energy ②	1200	mJ
IAR	Avalanche Current ①	23	Α
EAR	Repetitive Avalanche Energy ①	28	mJ
dv/dt	Peak Diode Recovery dv/dt ③	4.0	V/ns
T _J T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150	°C
	Soldering Temperature, for 10 seconds	300 (1.6mm from case)	
15. 2000	Mounting Torque, 6-32 or M3 screw	10 lbf•in (1.1 N•m)	

#### Thermal Resistance

	Parameter	Min.	Typ.	Max.	Units
Reuc	Junction-to-Case	_	_	0.45	
Recs	Case-to-Sink, Flat, Greased Surface	_	0.24	_	°C/W
ReJA	Junction-to-Ambient	_	-	40	1

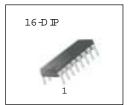
### KA3525A

#### Features

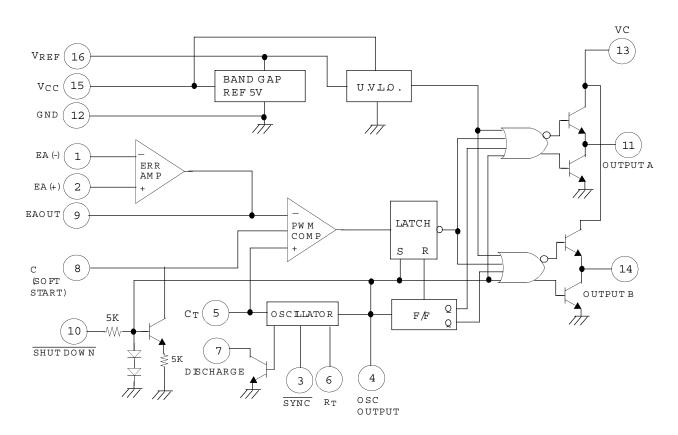
- 5V ±1% Reference
- Oscillator Sync Term in al.
- Internal Soft Start
- DeadtimeControl
- UnderVoltageLockout

### Description

The KA 3525A is a monolithic integrated circuit that includes all of the control circuits necessary for a pulse width modulating regulator. There are a voltage reference, an error amplifier, a pulse width modulator, an oscillator, an under voltage lockout, a soft start circuit, and the output driver in the chip.



### Internal Block Diagram



### Absolute Maxim um Ratings

Param eter	Sym bol	Value	Unit
Supply Voltage	VCC	40	V
CollectorSupply Voltage	VC	40	V
OutputCument, Sink or Source	Ъ	500	m A
Reference OutputCurrent	<b>I</b> R E F	50	m A
O scillator Charging Cument	Eng (osc)	5	m A
PowerDissipation (TA = 25°C)	PD	1000	m <i>f</i> W
Operating Temperature	Topr	0 ~ +70	°C
Storage Tem perature	TsTG	-65 ~ +150	°C
Lead Tem perature (Soldering, 10sec)	TLEAD	+300	°C

### Electrical Characteristics

 $(V_{CC} = 20V, T_A = 0 \text{ to } +70^{\circ}\text{C}, \text{unless otherwise specified})$ 

Param eter	Sym bol	Conditions	Min.	Тур.	Max.	Unit		
REFERENCE SECTION								
Reference Output Voltage	VREF	$T_{\mathcal{J}} = 25^{\circ}C$	5.0	5.1	5.2	V		
Line Regulation	$\Delta$ VREF	Vcc = 8 to 35V	-	9	20	m V		
Load Regulation	$\Delta$ V _{REF}	IREF = 0 to 20m A	-	20	50	m V		
ShortCircuitOutputCurrent	Īsc	VREF = 0, TJ = 25°C	-	80	100	m A		
TotalOutputVariation (Notel)	$\Delta$ V _{REF}	Line, Load and Tem perature	4.95	-	5.25	V		
Temperature Stability (Note1)	STT	-	-	20	50	m V		
Long Term Stability (Note1)	ST	T _J = 125°C ,1KHR _S	-	20	50	m V		
OSCILLATOR SECTION								
InitialAccuracy (Note1,2)	ACCUR	T _J = 25°C	-	±3	±6	%		
Frequency Change With Voltage	Δf/ΔVcc	Vcc = 8 to 35V (Note1,2)	-	8.0±	±2	ે		
Maximum Frequency	f(MAX)	$R_T = 2k\Omega$ , $C_T = 470pF$	400	430	-	kH z		
Minimum Frequency	f(M IN )	$R_T = 200k\Omega$ , $C_T = 0.1uF$	-	60	120	Ηz		
C bck Amplitude (Note1,2)	V(CLK)	-	3	4	-	V		
C bck W idth (Note1,2)	# (CTK)	$T_{\mathcal{J}} = 25^{\circ}C$	0.3	0.6	1	μs		
Sync Threshold	VTH (SYNC)	-	1.2	2	2.8	V		
Sync InputCument	I(SYNC)	Sync = 3.5V	-	1.3	2.5	m A		

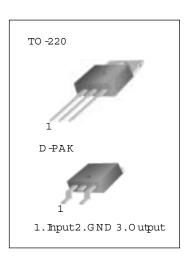
### KA7805

#### Features

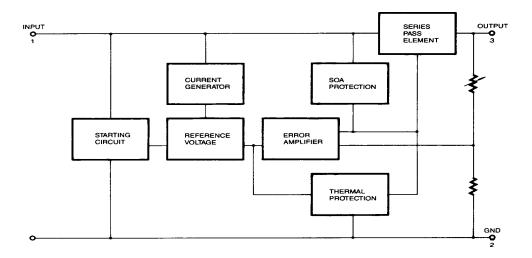
- OutputCurrentup to 1A
- OutputVoltages of 5, 6, 8, 9, 10, 12, 15, 18, 24V
- Therm aloverload Protection
- Short Circuit Protection
- Output Transistor Safe Operating Area Protection

### Description

The KA78XX/KA78XXA series of three-term inal positive regulator are available in the TO-220/D-PAK package and with several fixed output voltages, making them useful in a wide range of applications. Each type employs internal current limiting, thermal shut down and safe operating area protection, making it essentially indestructible. If adequate heat sinking is provided, they can deliver over 1A output current. A lithough designed primarily as fixed voltage regulators, these devices can be used with external components to obtain adjustable voltages and currents.



#### InternalBlock Digram



### Absolute Maximum Ratings

Param eter	Sym bol	Value	Unit
InputVoltage (forVo = 5V to 18V) (forVo = 24V)	A1 A1	35 40	V V
Them alResistance Junction-Cases (TO -220)	R ØJC	5	°C /W
ThermalResistance Junction-Air (TO -220)	R 0JA	65	°C M
Operating Temperature Range (KA78XX/A/R)	TOPR	0 ~ +125	°C
Storage Tem perature Range	TsTG	-65 ~ +150	°C

### ElectricalCharacteristics (KA7805/KA7805R)

 $(\texttt{Refer to test circuit}, \texttt{0}^{\circ}\texttt{C} < \texttt{T}_{\texttt{J}} < \texttt{125}^{\circ}\texttt{C} \text{, } \texttt{10} = \texttt{500m A}, \texttt{V}_{\texttt{I}} = \texttt{10V}, \texttt{C} \not \models \texttt{0.33} \mu\text{F}, \texttt{C}_{\texttt{0}} = \texttt{0.1} \mu\text{F}, \texttt{unless otherwise specified})$ 

Darmm atom	Crm hol	Conditions		KA 7805			TT
Param eter	Sym bol			Min.	Тур.	Max.	Unit
	T _J =+25 °C		4.8	5.0	5.2		
OutputVoltage	Vo	$5.0 \text{m A} \leq 10 \leq 1$ V _I = 7V to 20V	5.0m A $\leq$ To $\leq$ 1.0A, PO $\leq$ 15W VI= 7V to 20V		5.0	5.25	V
Line Regulation (Note1)	R egline	Т.т=+25 ^о С	Vo = 7V to 25V	-	4 .0	100	m V
		10=+25 C	VI= 8V to 12V	-	1.6	50	
Load Regulation (Note1)	Regbad	Т _Ј =+25 [°] С	To = 5.0m A to 1.5A	-	9	100	m V
Load Regulation (Note1)			To =250m A to 750m A	-	4	50	
QuiescentCunent	<b>I</b> Q	T _J =+25 °C	T _J =+25 °C		5.0	0.8	m A
0 1 4 7 4 7 1	$\Delta  au_{\!\!  ext{Q}}$	$T_0 = 5 \text{m A to } 1.0 \text{A}$		-	0.03	0.5	m A
QuiescentCumentChange		$V_{I=}$ 7V to 25V		-	0.3	1.3	
O utput Voltage D rift	Δνο Δτ	T _O = 5m A		-	-0.8	-	m V /°C
OutputNoise Voltage	$V_{\rm N}$	$f = 10 Hz$ to $100 KHz$ , $T_A = +25$ °C		-	42	-	μVNO
Ripple Rejection	RR	f= 120H z V _O = 8V to 18V		62	73	-	dВ
D ropout Voltage	V _D rop	$T_0 = 1A$ , $T_J = +25$ °C		-	2	-	V
O utput R esistance	ro	f= 1KHz		-	15	-	m $\Omega$
ShortCircuitCurrent	<b>I</b> sc	V _I = 35V, T _A =+25 °C		-	230	-	m A
Peak Cument	Þκ	T _J =+25 °C		-	2.2	-	А

#### Note:

1. Load and line regulation are specified at constant junction temperature. Changes in  $V_0$  due to heating effects must be taken into account separately. Pulse testing with bw duty is used.

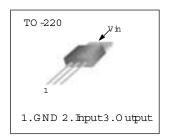
### **KA7905**

#### Features

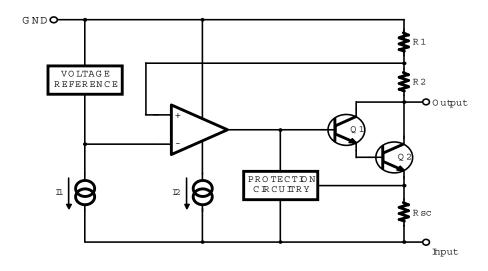
- OutputCurrent in Excess of 1A
- Output Voltages of -5, -6, -8, -9, -10, -12, -15, -18, -24V
- Internal Therm aloverbad Protection
- Short Circuit Protection
- Output Transistor Safe Operating Area Compensation

### Description

The KA79XX/KA79XXA series of three-term inal negative regulators are available in TO-220 package and with several fixed output voltages, making them useful in a wide range of applications. Each type employs internal current limiting, thermal shutdown and safe operating area protection, making it essentially indestructible.



### InternalBlock Digram



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### Absolute Maximum Ratings

Param eter	Sym bol	Value	Unit
InputVoltage	VI	-35	V
ThermalResistance Junction-Case (Note1)	Røjc	5	°C M
ThermalResistance Junction-Air (Note1,2)	Røja	65	°C M
O perating Tem perature R ange	TOPR	0 ~ +125	°C
Storage Temperature Range	Tstg	-65 ~ +150	°C

#### Note:

- 1.Them alresistance testboard Size:762mm *1143mm *1.6mm (1S0P) JEDEC standard:JESD51-3,JESD51-7
- 2.Assum e no am bientairflow

#### ElectricalCharacteristics (KA7905)

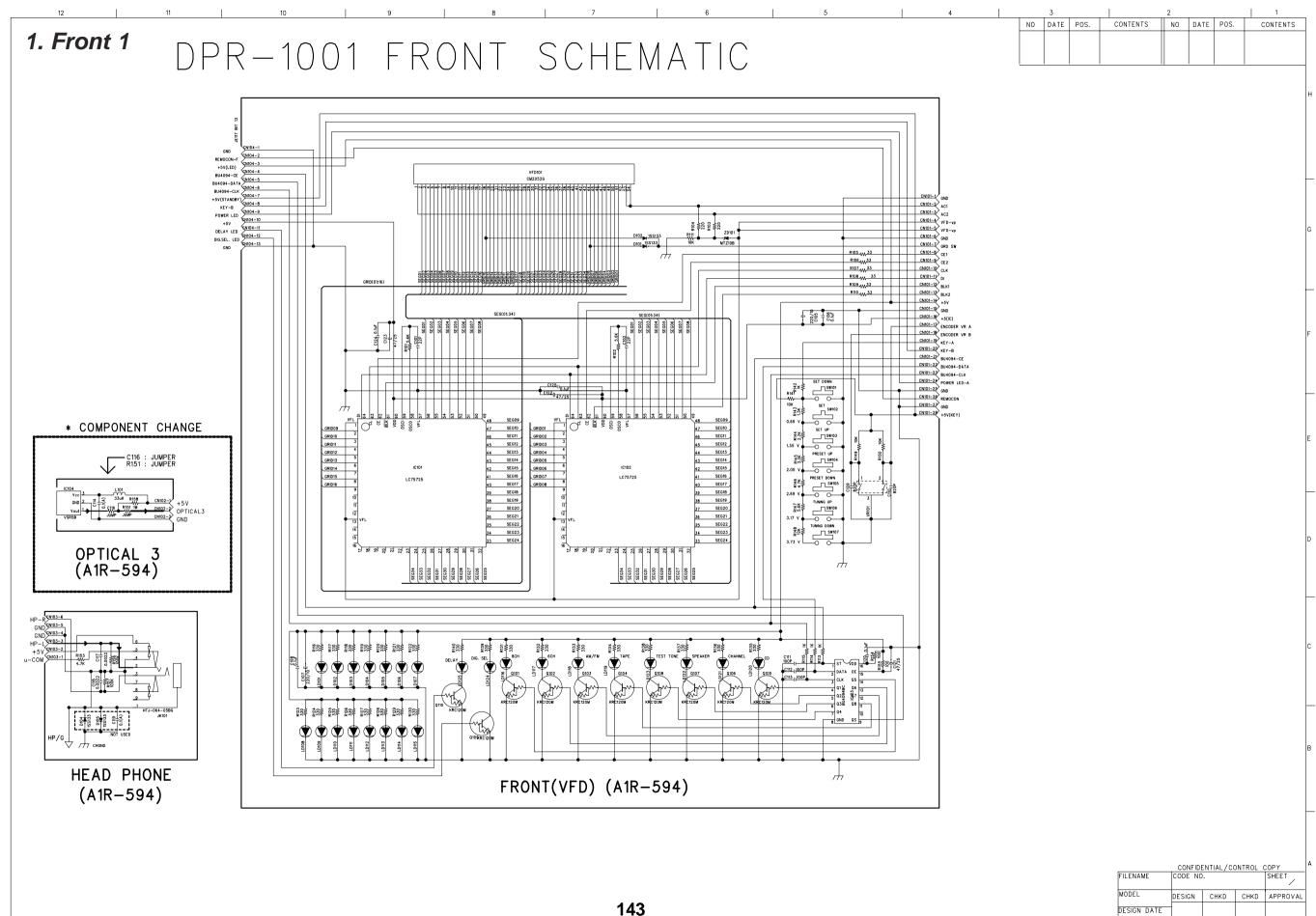
 $(V_I = -10V, I_0 = 500m\,A, 0^{\circ}C \le T_J \le +125^{\circ}C, C_I = 2\,2\mu F, C_O = 1\mu F, unless otherwise specified.)$ 

Param eter	Sym bol	C ond itions		Min.	Тур.	Max.	Unit
	Vo	T _J = +25°C		-4.8	-5.0	-5.2	V
O utput Voltage		$T_0 = 5m A \text{ to } 1A, P_0 \le 15W$ $V_1 = -7V \text{ to } -20V$		-4.75	-5.0	-5.25	
Line Regulation (Note3)	$\Delta$ V $_{ extsf{O}}$	T _J = +25°C	$V_{I}$ = -7V to -25V	-	35	100	m V
			$V_{I}$ = -8V to -12V	-	8	50	
Load Regulation (Note3)	ΔVO	$T_J = +25^{\circ}C$ , $T_D = 5m A$ to 1.5A		-	10	100	m V
		$T_J = +25^{\circ}C$ , $T_D = 250m A$ to $750m A$		-	3	50	
QuiescentCument	Ę	T _J =+25°C		-	3	6	m A
QuiescentCumentChange	$\Delta  exttt{T}_{ extstyle Q}$	$I_0 = 5m A \text{ to } 1A$		-	0.05	0.5	m A
		V _I = -8V to -25V		-	0.1	8.0	III A
Tem perature CoefficientofVD	ΔVο/ΔΤ	I₀ = 5m A		-	-0.4	-	m V /°C
OutputNoise Voltage	VN	$f = 10 H z \text{ to } 100 \text{kH z}, T_A = +25^{\circ} \text{C}$		-	40	-	μ∨
Ripple Rejection	RR	f= 120Hz, ΔV _I = 10V		54	60	-	dВ
DropoutVoltage	VD	$T_J = +25$ °C, $T_O = 1A$		-	2	-	V
ShortCircuitCurrent	<b>I</b> sc	T _J =+25°C, V _I = -35V		-	300	-	m A
Peak Cument	Φĸ	T _J =+25°C			2.2	-	A

#### Note

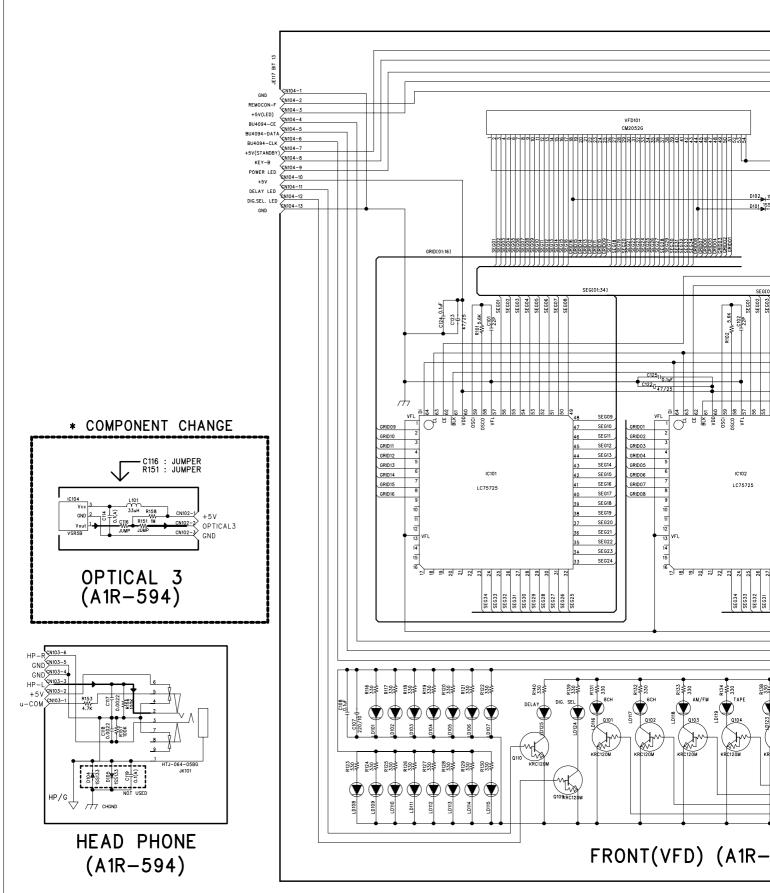
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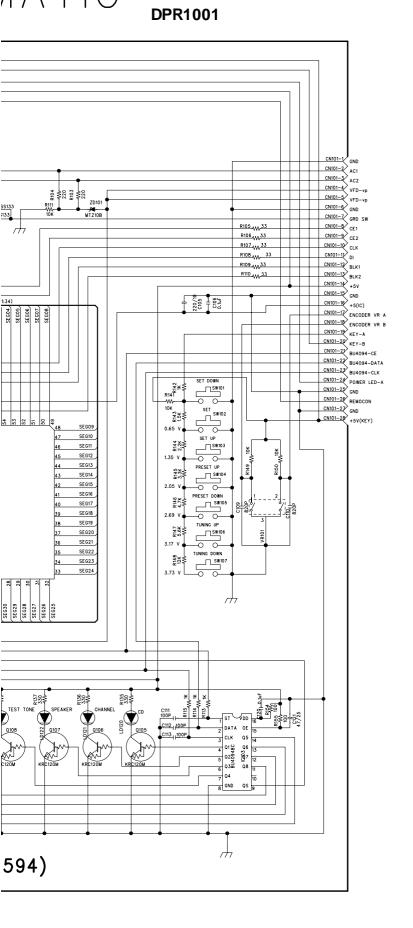
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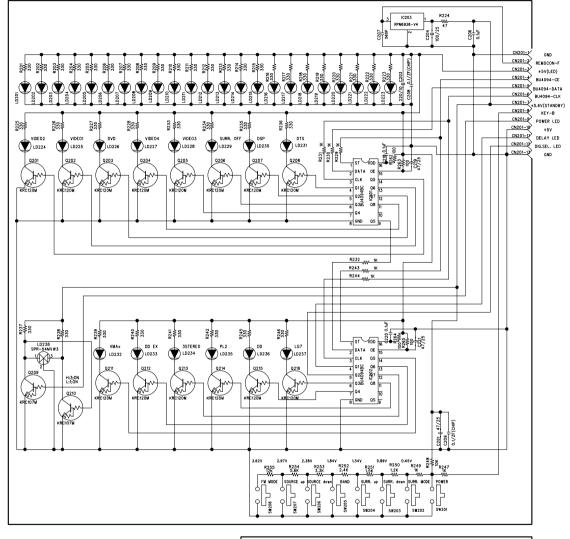
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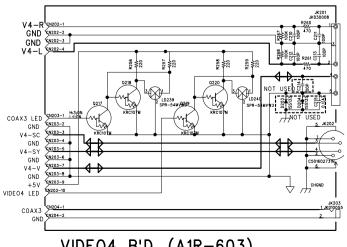


### **SCHEMATICS**

#### 2. Front 2

# DPR-1001 FRONT SCHEMATIC DIAGRAM





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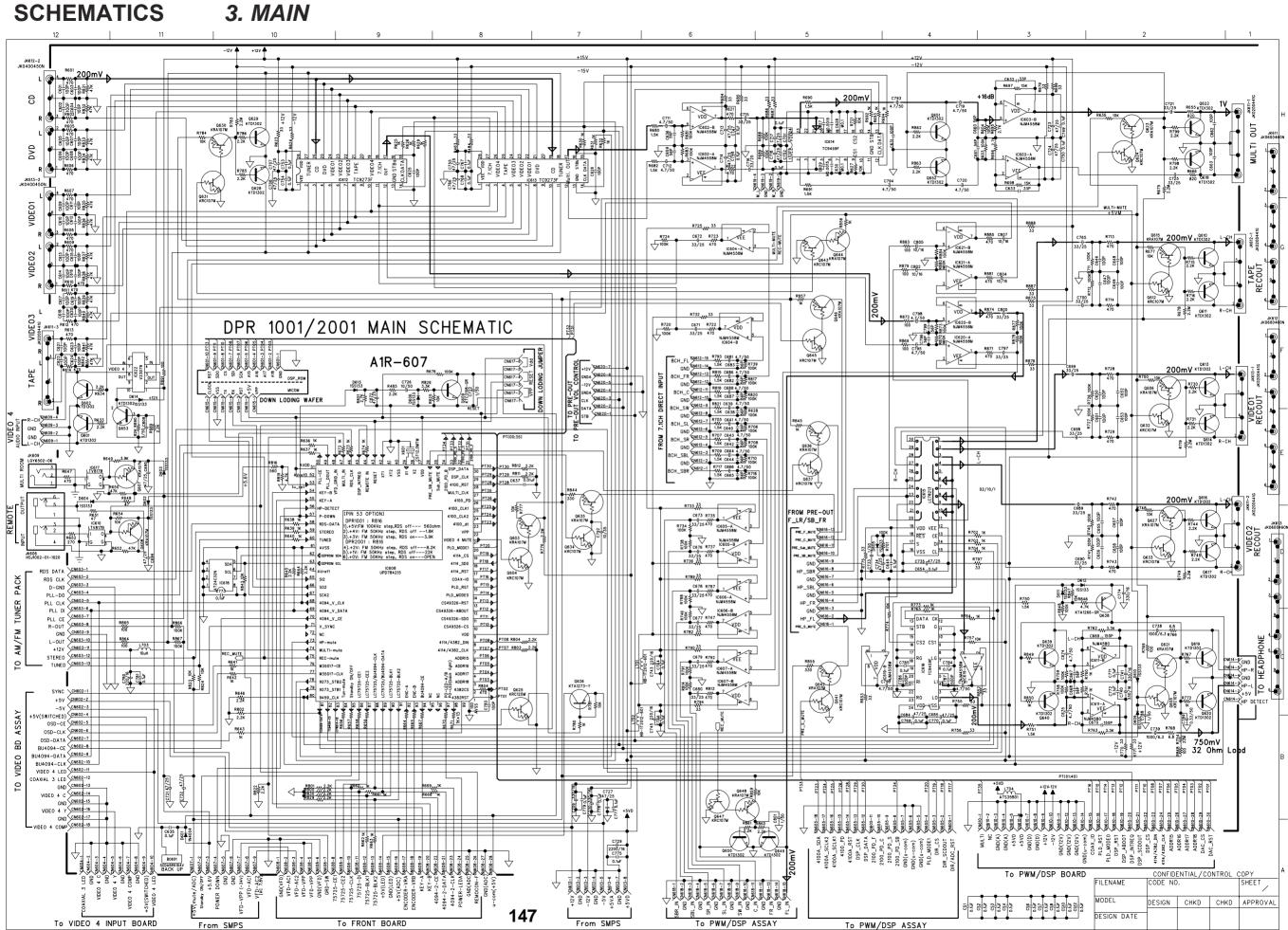
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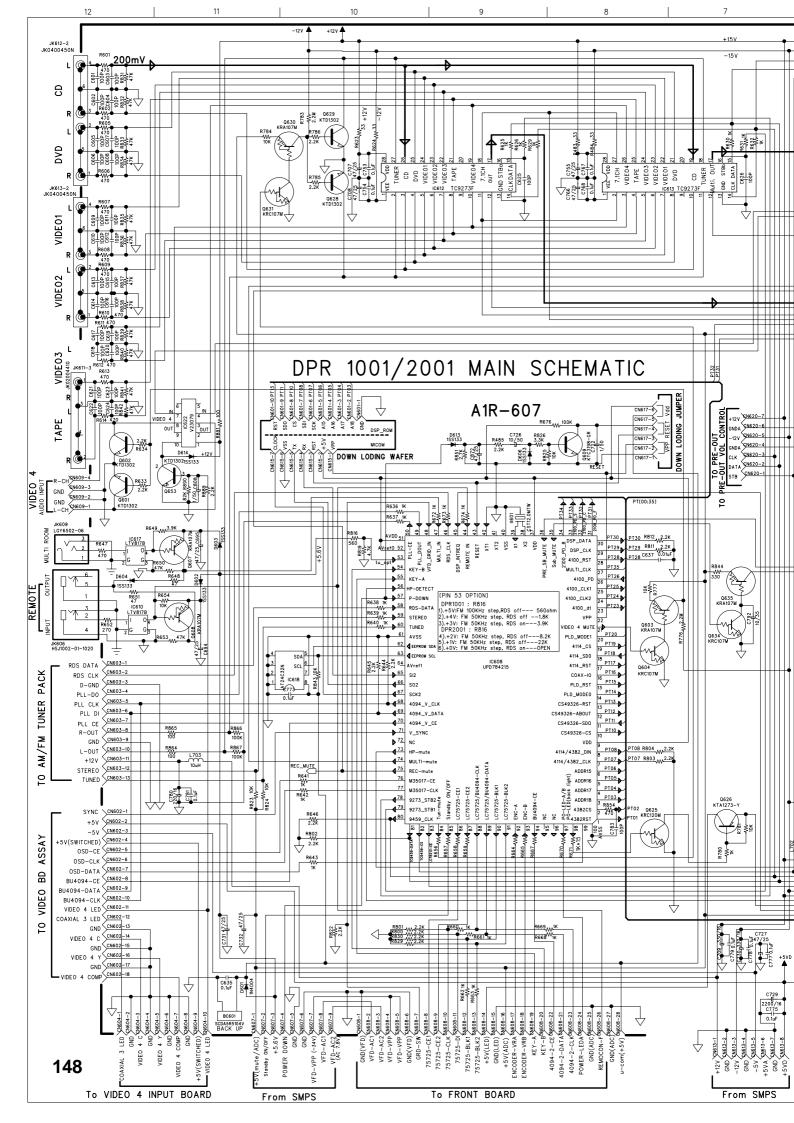
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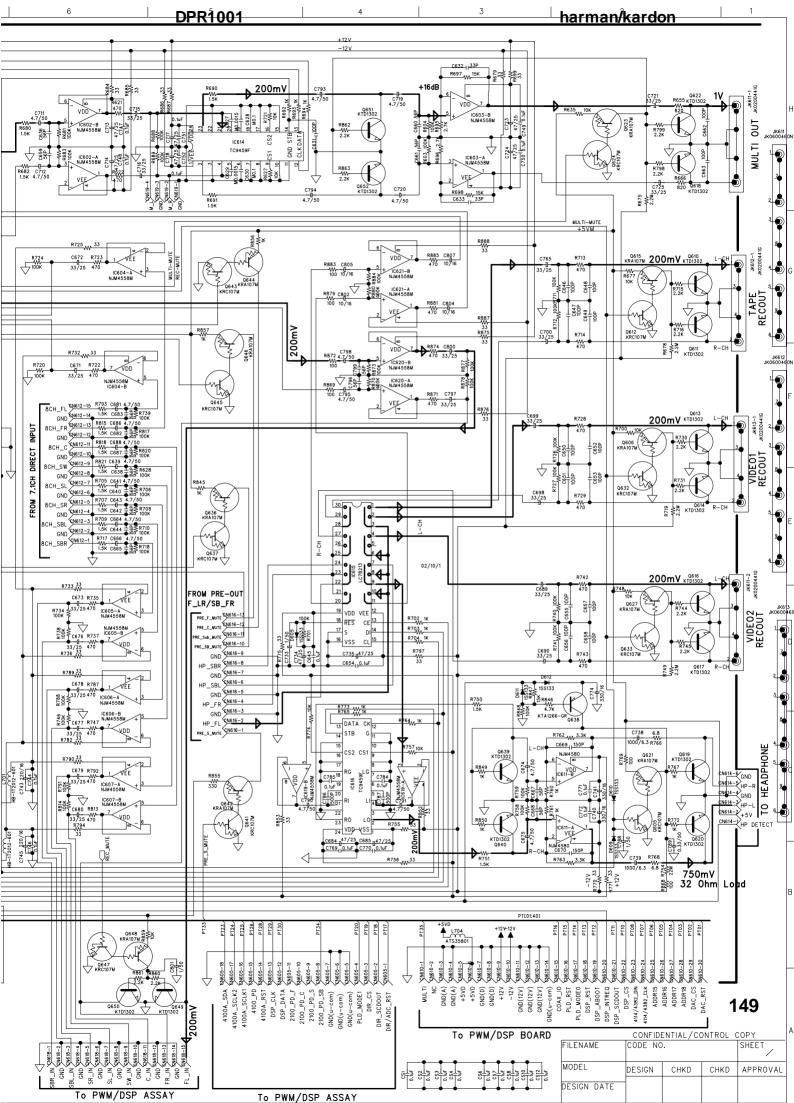
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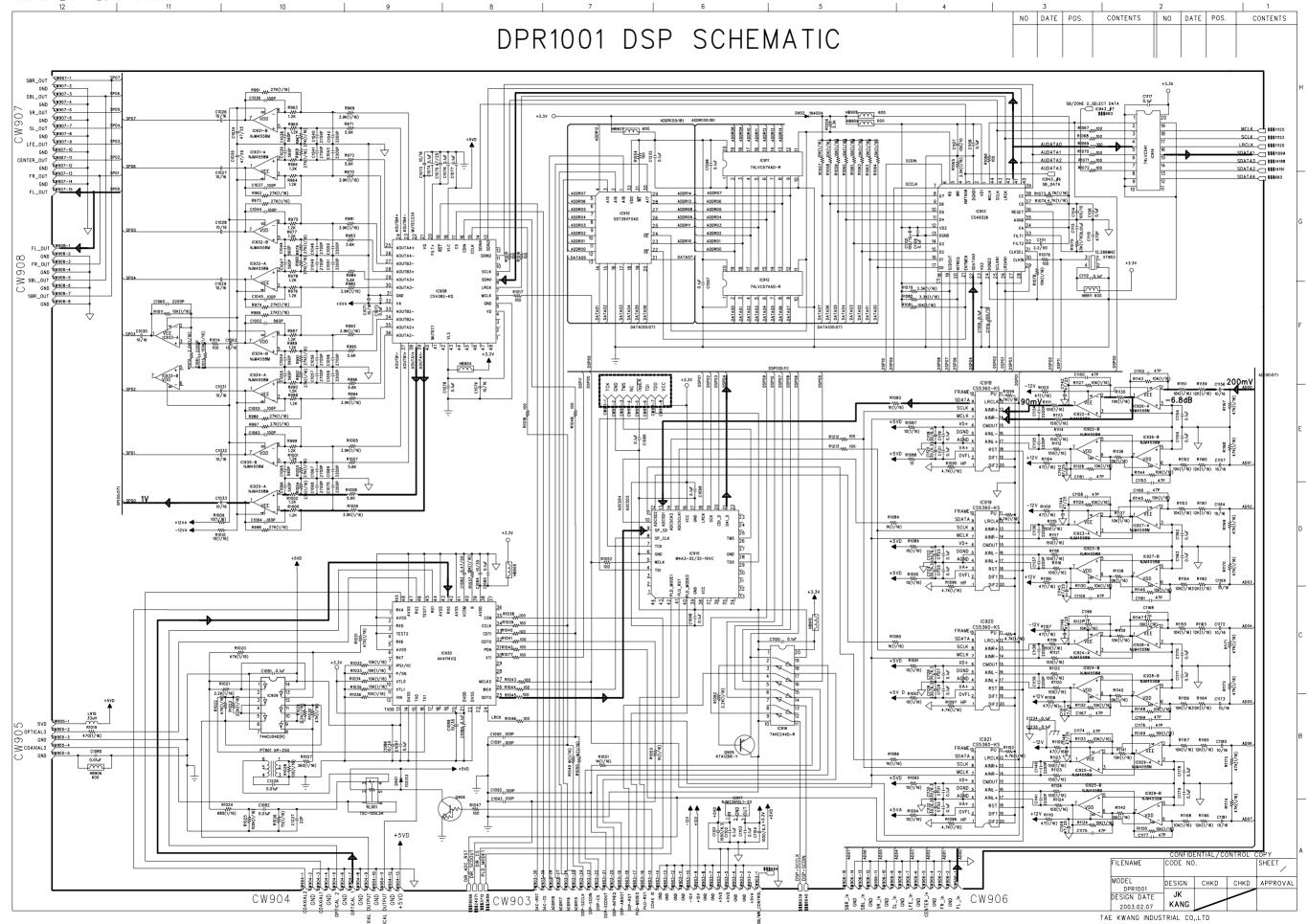


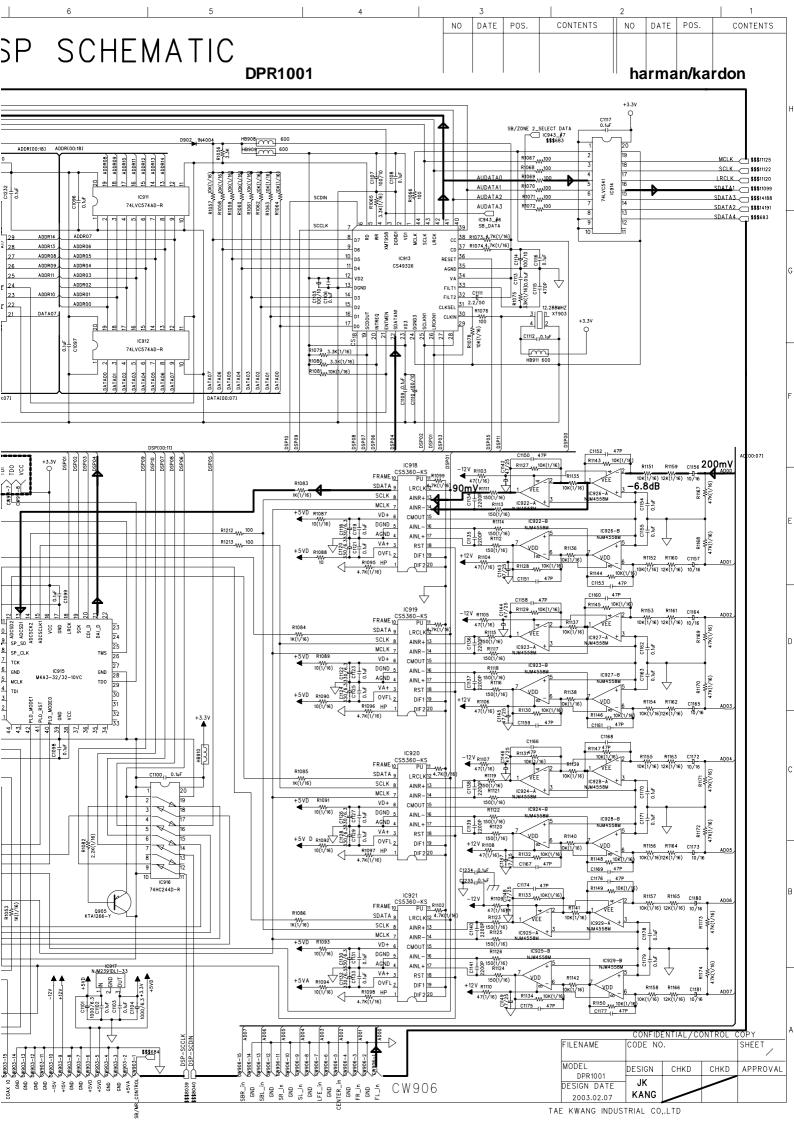


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#### **SCHEMATICS**

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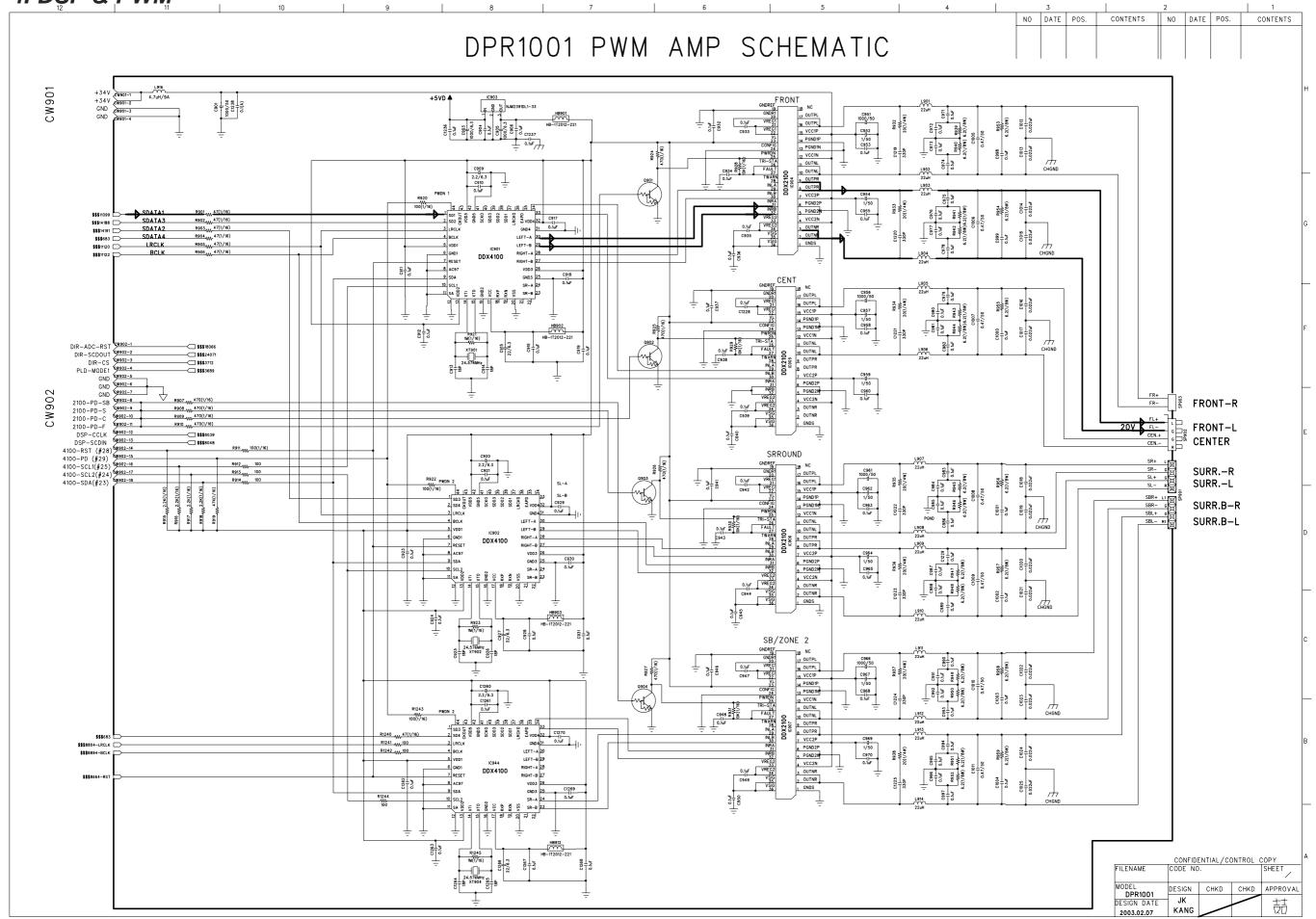


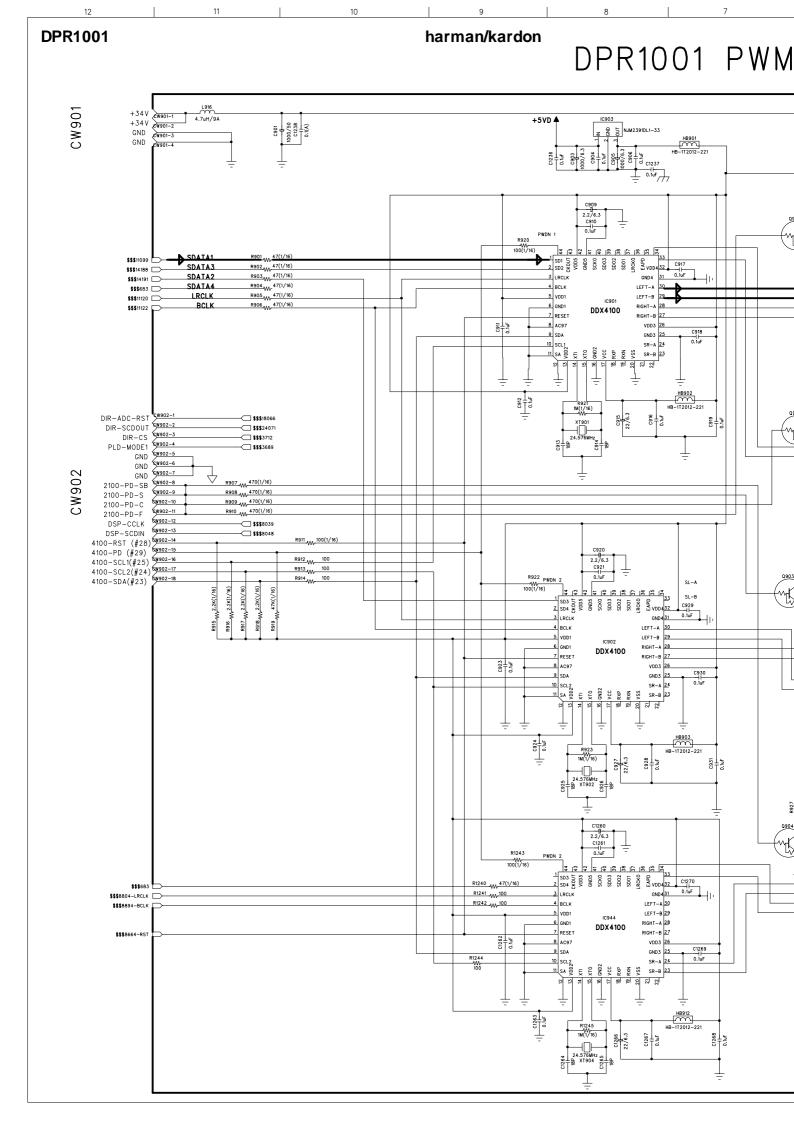


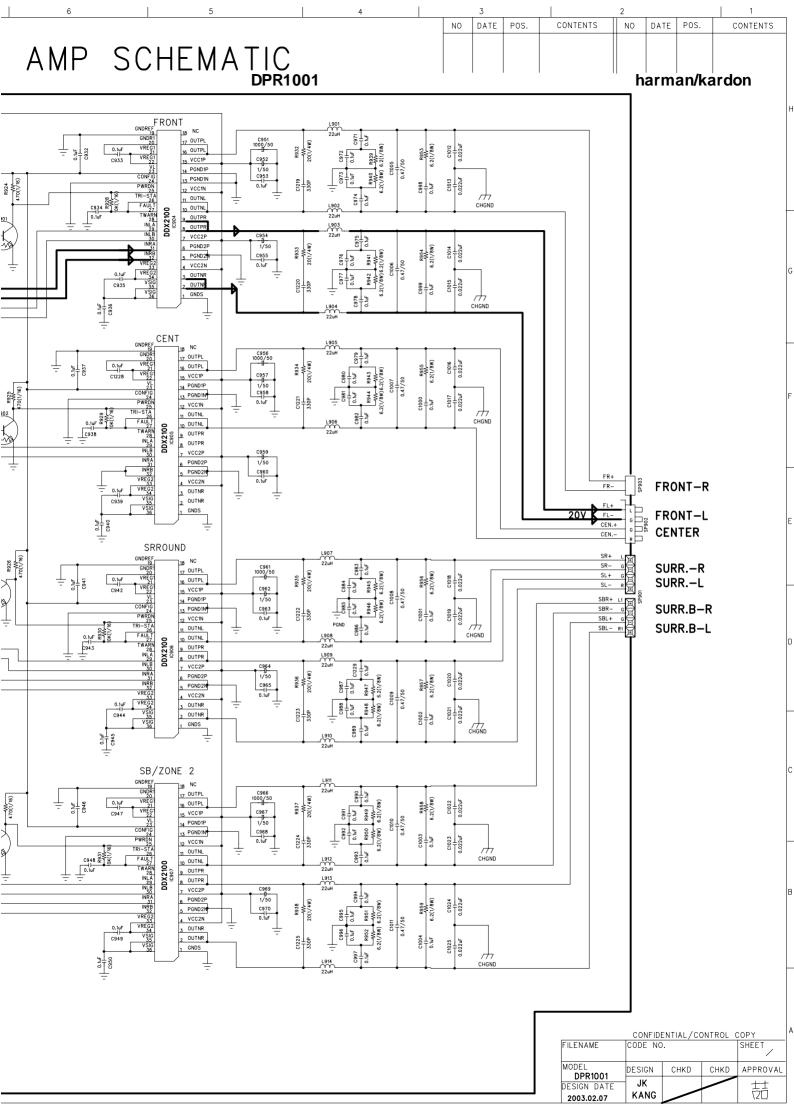
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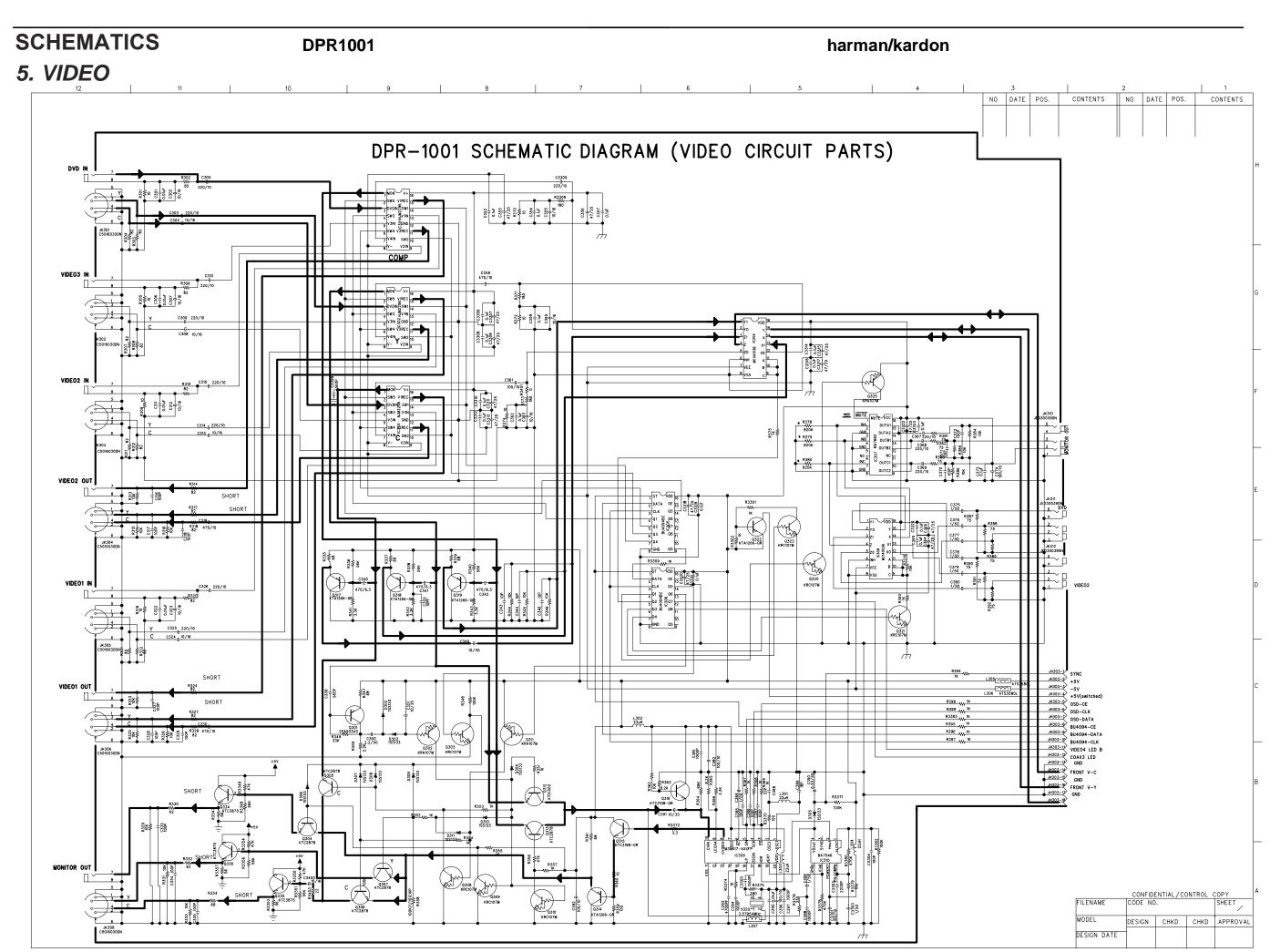
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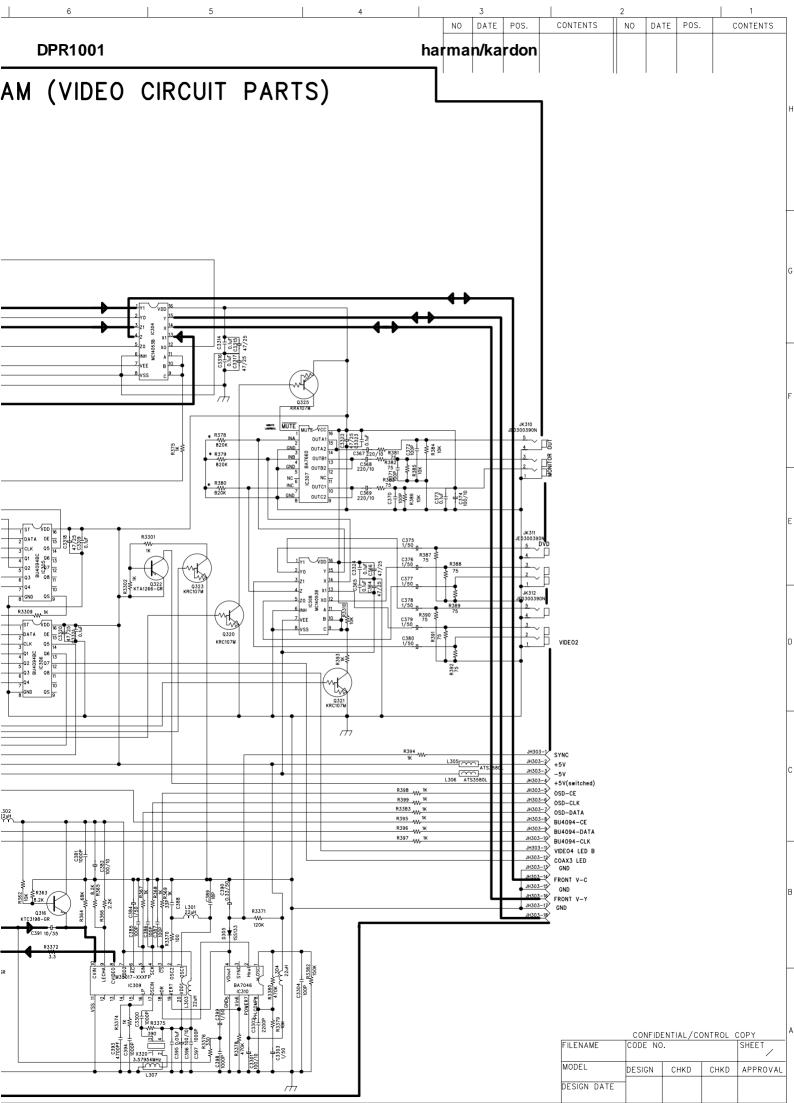
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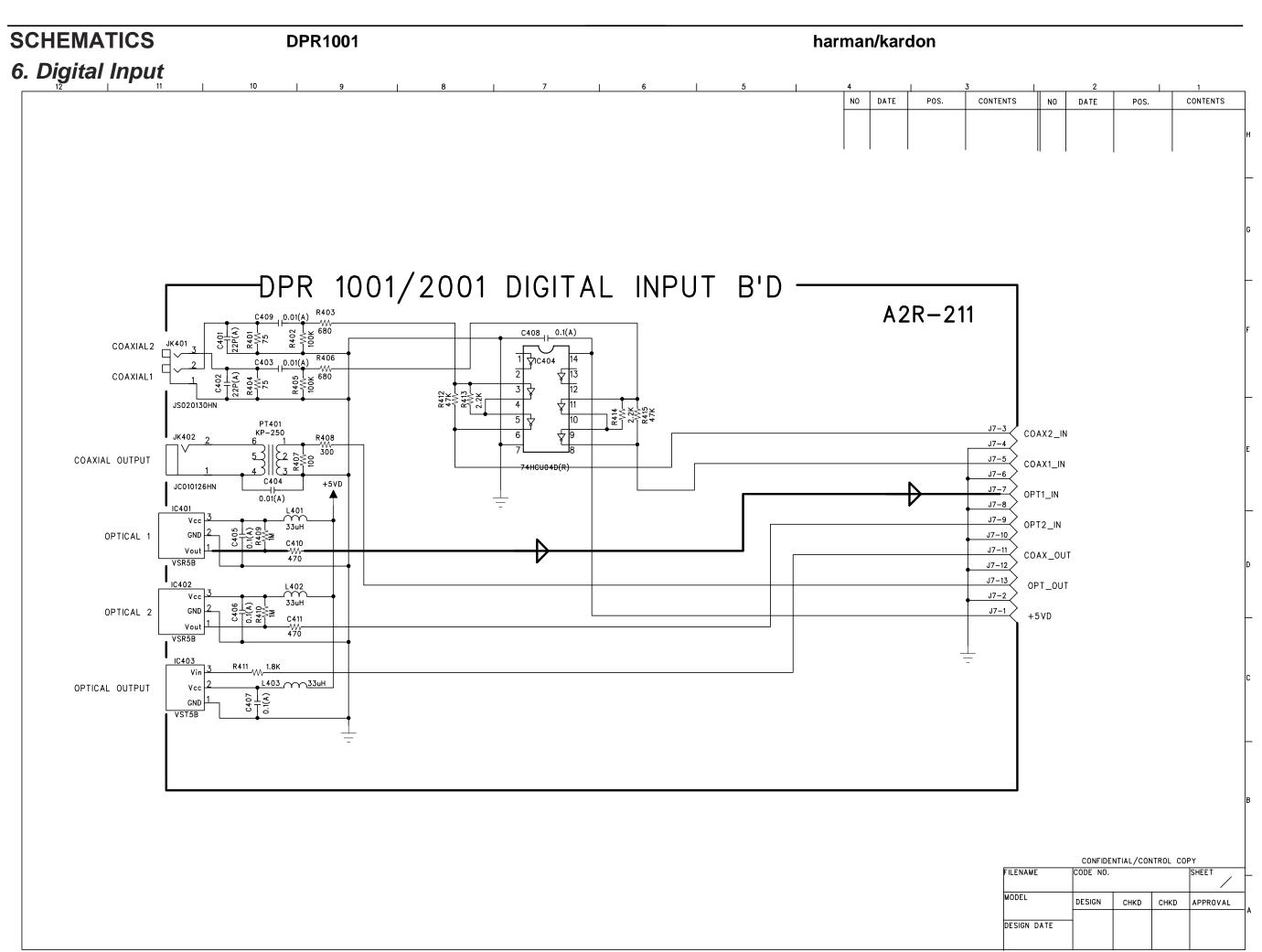




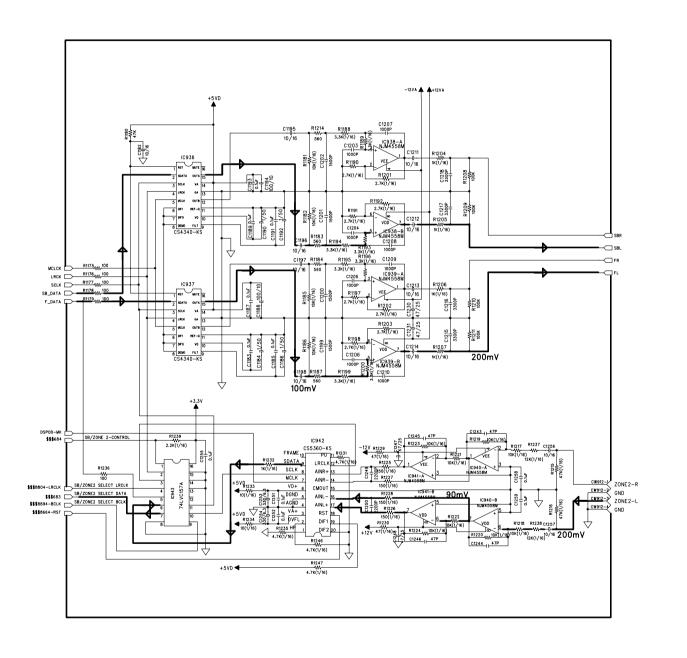


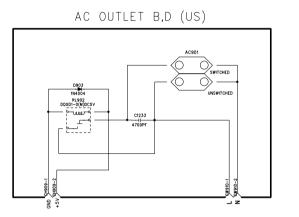


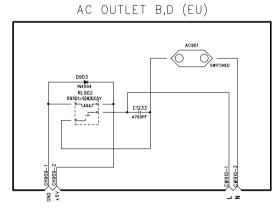










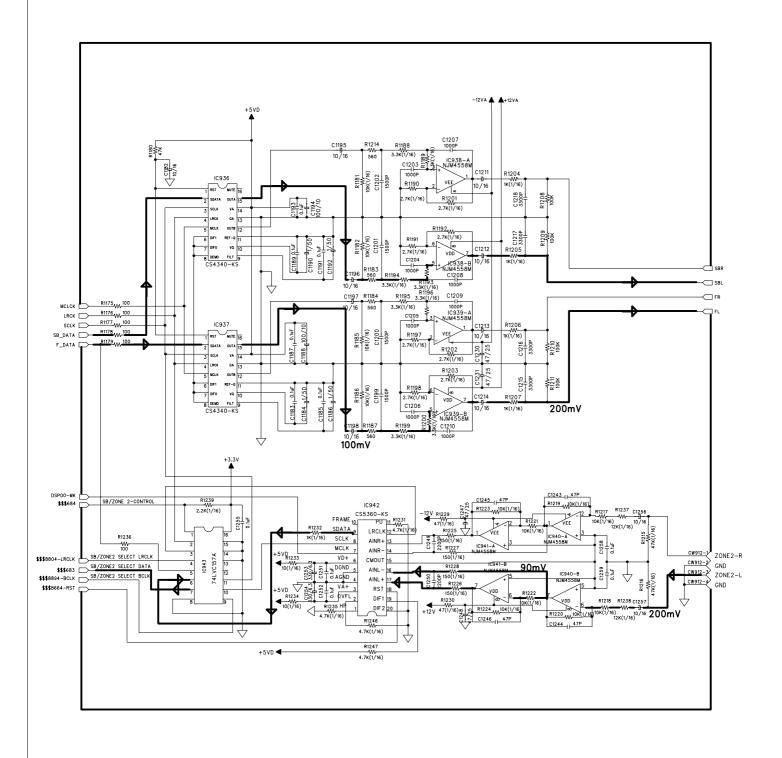


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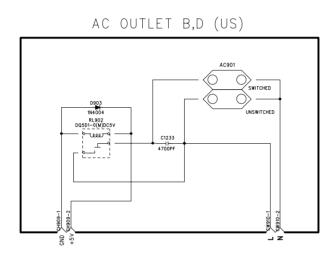
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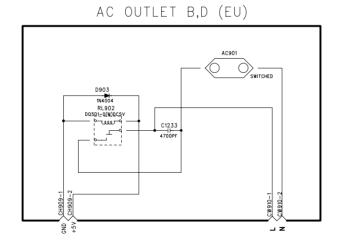
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AC OUTLET SCHEMATIC

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## WIRING DIAGRAM DPR 1001

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