

HK 3770

2x120 W stereo receiver



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Introduction

Thank you for purchasing the Harman Kardon® HK 3700/3770 stereo receiver with which, you are about to begin many years of listening enjoyment. The HK 3700/3770 stereo receiver has been custom-designed to provide excitement and power of the cinema experience in your living room.

To obtain maximum enjoyment from your new soundbar speaker system, we urge you to take a few minutes to read through this manual, which:

- Contains a description of the features of HK 3700/3770 stereo receiver
- Lists the items included in the box
- Describes the HK 3700/3770 stereo receiver and its components
- Includes step-by-step instructions that will help you set up and get started with the HK 3700/3770 stereo receiver

In addition, a few minutes spent learning the functions of the various controls will allow you to take advantage of all the power and refinement of the HK 3700/3770 stereo receiver.

CONTACT US: If you have any questions about HK 3700/3770 receiver, its installation or its operation, please contact your retailer or custom installer, or visit our website at: www.harmankardon.com

Description and Features

Harman Kardon heritage and brand legacy has been its two-channel audio for many years.

As more and more audio content comes from multiple digital-based sources, such as a 'smart' TV, smartphone or tablet, playback convenience becomes the driving factor in entertainment while sound quality remains the foundation of Harman Kardon. The new Harman Kardon HK stereo receivers try to bring the best of both the worlds: beautiful two channel stereo sound and latest digital-based sources access.

The following are the features and benefits of the Harman Kardon 3700/3770 stereo receivers:

- Harman Kardon sound — This has been the foundation of the brand for many years. High power high current capability with stable power output even with variation of the load impedance of the speaker drivers.
- Connectivity — HK stereo receivers feature the best of both the worlds: classic analog inputs including phono input, FM/AM radio as well as new digital connectivity with Bluetooth, network DLNA, vTuner internet radio, USB, iOS direct thru USB with built in superior DAC and optical digital input.
- Distinctive and elegant design — Based on the current design and chassis of AVR1x1 series.
- Advance remote control — The new stereo receivers also support iOS and Android app to fully control the stereo receiver from Harman Kardon Remote app for maximum ease and enjoyment.

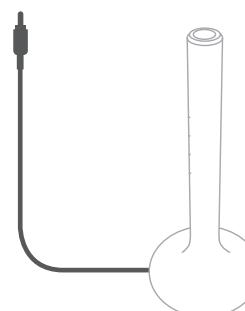
Included Items

The HK 3700/3770 stereo receiver consists of the following accessories:

- System remote control



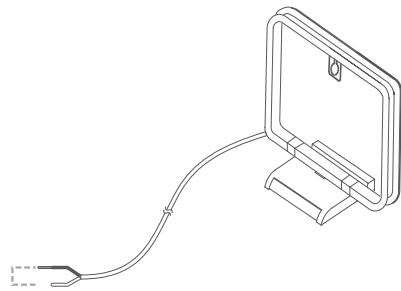
- EzSet/EQ™ microphone



HK 3700/3770

Important Safety Information

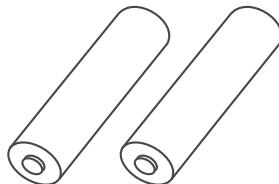
- AM loop antenna



- FM Loop antenna



- Two AAA batteries



- AC power cord



IMPORTANT: If any of these accessories is missing or if any part of your HK 3700/3770 system fails to operate properly, contact your dealer immediately.

Important Safety Information

Verify Line Voltage before Use

The HK 3700/3770 has been designed for use with 100- 240 Volt Alternating Current (AC). Connection to a line voltage other than that for which your HK 3700/3770 is intended can create a safety and fire hazard, and may damage the unit. If you have any questions about the voltage requirements for your specific model or about the line voltage in your area, contact your selling dealer before plugging the unit into a wall outlet.

Do Not Use Extension Cords

To avoid safety hazards, use only the power cord supplied with your unit. We do not recommend the use of extension cords with this product. Do not run power cords under rugs or carpets, or place heavy objects on them. Damaged power cords should be replaced immediately by an authorized service center, with a cord, meeting factory specifications.

Handle the AC Power Cord Gently

When disconnecting the power cord from an AC outlet, always pull the plug; never pull the cord. If you do not intend to use your HK 3700/3770 for any considerable length of time, disconnect the plug from the AC outlet.

Do Not Open the Cabinet

There are no user-serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your warranty. If water or any metal object such as a paper clip, wire or staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service center.

CATV or Antenna Grounding

If an outside antenna or cable system is connected to this product, be certain that it is grounded so as to provide some protection against voltage surges and static charges. Section 810 of the United States National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements of the grounding electrode.

Note to CATV System Installer: This reminder is provided to call the CATV (Cable TV) system installer's attention to article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

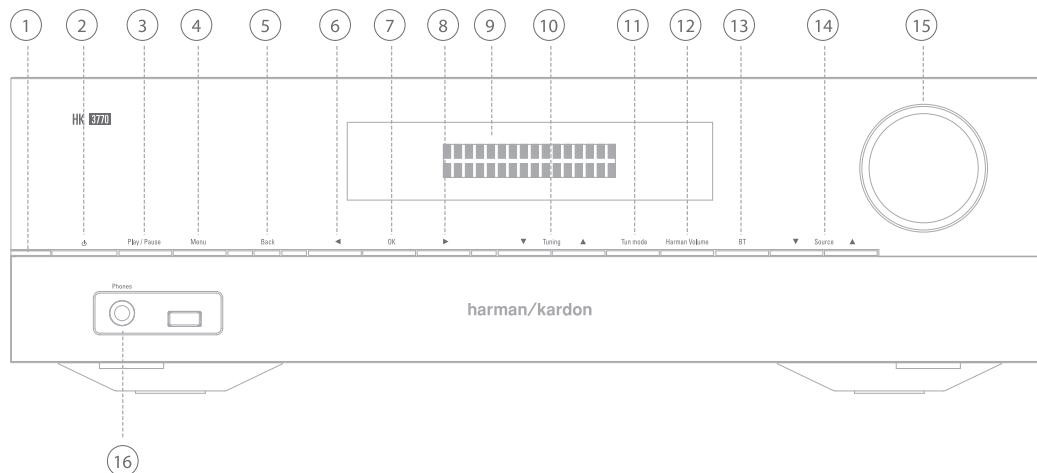
Placing the Stereo Receiver

- Place the Stereo receiver on a firm and level surface. Be certain that the surface and any mounting hardware can support the Stereo receiver's weight.
- Provide proper space above, below, behind and to the sides of the Stereo receiver for ventilation. Maintain a clearance of at least 12" (30 cm) on each side of, above and behind the unit.
- If you install the Stereo receiver in a cabinet or other enclosed area, provide cooling air within the cabinet. Under some circumstances, a fan may be required.
- Do not obstruct the ventilation slots on the top of the Stereo receiver or place objects directly over them.
- Do not place the Stereo receiver directly on a carpeted surface.
- Do not place the Stereo receiver in moist or humid locations, in extremely hot or cold locations, in areas near heaters or heat registers, or in direct sunlight.

HK 3700/3770

HK 3700/3700 Receiver Front Panel Controls

HK 3700/3700 Receiver Front Panel Controls



The following are the front panel controls available in the HK 3700/3770 stereo receiver:

1. Power indicator
2. Power switch
3. Play/Pause
4. Menu
5. Back
6. Select previous
7. OK
8. Select Next
9. Message display
10. Tuning
11. Tuner mode selector
12. Harman Volume
13. Bluetooth
14. Source selector
15. Volume control
16. Phono input

1. Power indicator: This indicates the status of the stereo receiver whether it is in Operational, OFF, or sleep mode.

2. Power switch: Press this button to turn the stereo receiver ON. When the HK 3700/3770 is in Standby mode (the Power Indicator is amber), short press this button to turn the system ON (the Power Indicator turns white).

The receiver goes to Standby mode automatically through the following:

- 30 minutes of inactivity in Operational mode
- Short press the power button on the front panel
- Short press the OFF button on the remote control or remote app

The receiver can be brought back to Operational mode through the following:

- Short press on the power button on the front panel
- Short press on the source button
- Audio signal from Bluetooth device (HK 3770 Only)

3. Play/Pause: Press this button to play or pause the audio stream.

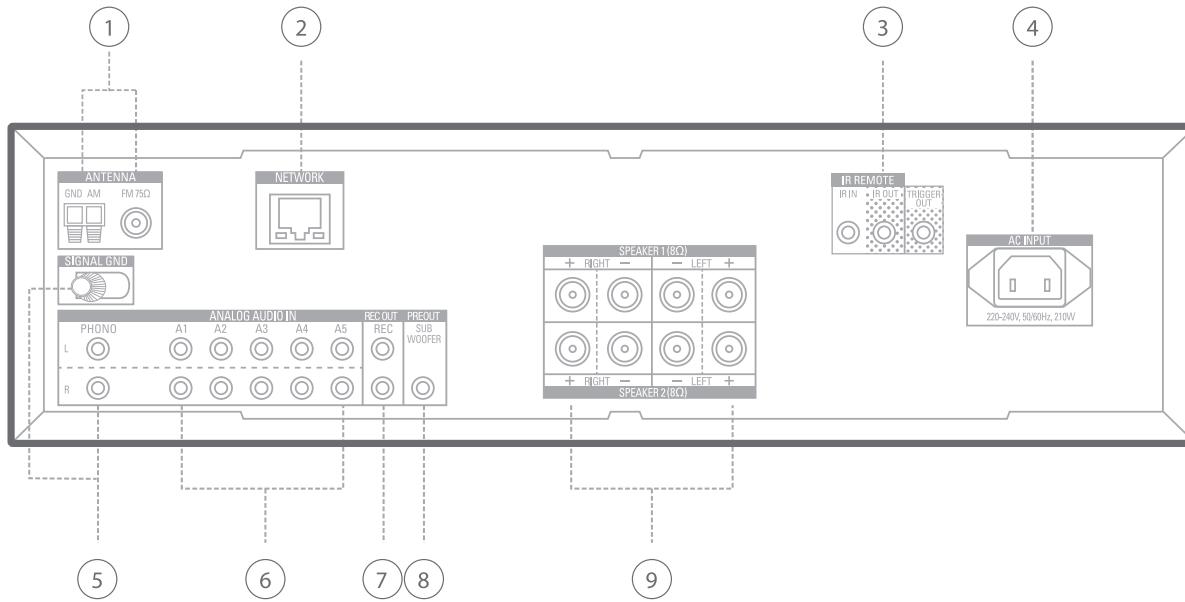
4. **Menu:** Press this button to choose from different menu options.
5. **Back:** Press this button to go back to the previous menu.
6. **Select previous:** Press this button to select the previous file to play.
7. **OK :** This button is used to make selections within the on-screen menu system for some source devices.
8. **Select next:** Press this button to play the next file.
9. **Message Display:** Various messages appear in this display in response to commands. In normal use, the Upper Line will display the current source and audio input (analog or one of the digital audio inputs). The Lower Line displays the current speaker group (if any are active) and the DSP mode. Other messages may appear for some sources, such as The Bridge docking station and the tuner.
10. **Tuning:** Use these buttons to navigate the receiver's menus. When the radio is the active source, use these buttons to tune stations according to the settings of the Tuning Mode button.
11. **Tuner Mode selector:** This button toggles between manual (one frequency step at a time) and automatic (seeks frequencies with acceptable signal strength) tuning mode. It also toggles between stereo and mono modes when an FM station is tuned in.
12. **Harman Volume:** This button cycles the Harman Volume function between high, low and off.
13. **Bluetooth:** The Bluetooth button is used to set the stereo receiver into Bluetooth mode. You can pair system with Bluetooth-enabled devices using this button.
14. **Source selector:** Press these buttons to select the active source.
15. **Volume Control:** Turn this knob clockwise to raise the volume and anticlockwise to lower the volume, which will be shown in decibels (dB) in the Message Display.
16. **Phono input:** This has a built-in preamp. You can only plug a record player into a phono input to connect it to the amplifier.

HK 3700/3770

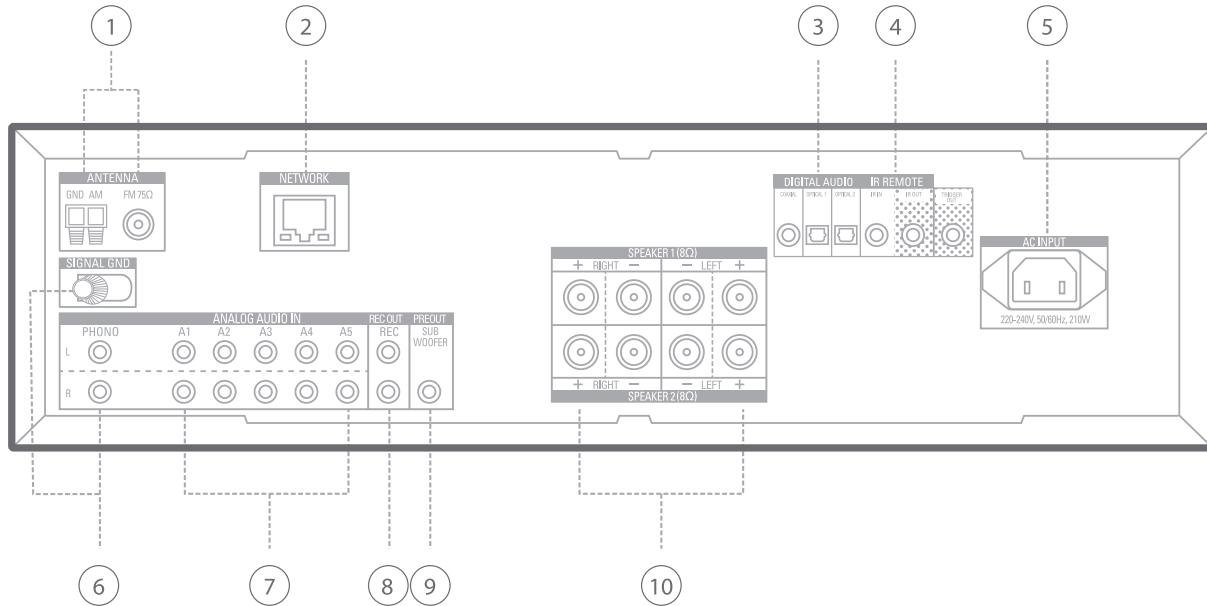
HK 3700/3770 Receiver Rear Panel Connections

HK 3700/3770 Receiver Rear Panel Connections

HK 3700



HK 3770



HK 3700/3770

Remote Control Functions

The front panel controls of the HK 3700/3770 stereo receiver includes the following:

1. Radio Antenna connector
2. Network Connector
3. Digital audio input connector(HK 3770 only)
4. IR and trigger connector
5. AC input connector
6. Signal GND
7. Phono
8. Analog Audio input connector
9. Recorder
10. Subwoofer connector
11. Speaker Connector

1. Radio Antenna connector: Connect the included AM and FM antennas to their respective terminals for radio signal reception.

2. Network Connector: Connect to your home network using RJ45 connector.

3. Digital audio input connector (HK 3770 only): If your non-HDMI source devices have digital outputs, connect them to the receiver's digital audio connectors.

NOTE: Make only one type of digital connection (HDMI, optical or coaxial) from each device.

4. IR in and trigger connector: When the IR remote receiver on the front panel of the HK 3700/3770 receiver is blocked, connect an optional IR receiver to the IR Remote Input jack for use with the remote control. The Remote IR Output may be connected to the IR Remote Input of a compatible source device (or other product) to enable remote control through the HK 3700/3770. When several source devices are used, connect them in a "daisy chain" fashion.

Trigger Connector: Connect these outputs to a compatible trigger input on the subwoofer connected to the Subwoofer Output immediately to the right of the Trigger Output. Consult the owner's manual for the subwoofer to set its trigger input correctly, and the subwoofer will automatically turn ON or OFF when the HK 3700/3770 is turned ON or OFF. In addition, the Trigger Outputs are used with the Subwoofer Link Switches to conserve energy by powering off the subwoofer's amplifier when it is not needed. The Subwoofer Trigger Outputs send a signal of 15 volts DC.

5. AC input connector: After you have made all other connections, plug the supplied AC power cord into an unswitched wall outlet.

6. Signal GND: This is used to connect the ground wire of an analog player. This reduces noise when an analog player is connected.

7. Phono in: Connect the outputs of your turntable to these jacks, and connect the ground wire from the turntable to this Ground Connector to reduce system hum. Only moving magnet (MM-type) cartridges are compatible with the Phono Inputs. If your turntable is equipped with its own on board phono preamp, you may connect it to any of the HK 3700/3770's other audio inputs.

8. Analog audio input connector: Use the receiver's Analog Audio Input/Output connectors for source devices that don't have HDMI or digital audio connectors. Use the Video 2 Out and Tape Out connectors to connect to the audio inputs of a VCR and tape deck.

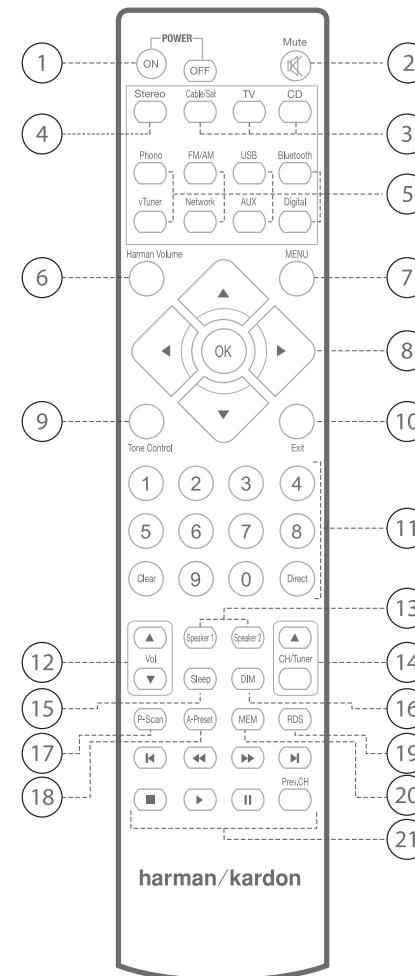
9. Recorder: Two-channel analog audio signals, as well as composite video signals, are normally available at the appropriate recording outputs. Thus, to make a recording, you need only make sure to connect your audio or video recorder to the appropriate output jacks. Insert blank media and make sure the recorder is turned on and recording while the source is playing.

NOTE: Please make certain that you are aware of any copyright restrictions on any material you record. Unauthorized duplication of copyrighted materials is prohibited by federal law.

10. Subwoofer connector: If you have a powered subwoofer, connect these jacks to the line-level inputs on the subwoofer.

11. Speaker connector: Use two-conductor speaker wire to connect each set of terminals to the correct speaker. Observe the correct polarity (positive and negative connections). Use the Speaker 1/2 Selectors on the front panel or remote to select either or both pairs of speakers for playback.

Remote Control Functions



HK 3700/3770

Remote Control Functions

The following remote control functions are available in the remote provided with the HK 3700/3770 remote:

1. Power On/Off
2. Mute
3. External device direct remote control (programmable)
4. Stereo (to shift from external devices back to stereo receivers)
5. Source selection
6. Harman Volume
7. Menu access
8. Navigation pad
9. Tone control
10. Exit
11. Numeric keys
12. Volume control
13. Speaker 1/2 selection
14. Preset selection
15. Sleep
16. Dimmer
17. Preset scan
18. Auto preset
19. RDS function
20. Memory
21. External device control

Power ON and OFF buttons: Press these buttons to turn the stereo receiver ON and OFF.

Mute: Press this button to mute or unmute the system.

Source selector button: Press one of these buttons to select a source device, which is a component where a playback signal originates, e.g., DVD, CD or the tuner. This will also turn ON the receiver and switch the remote to the codes that operate the source device.

Harman Volume (HK 3770 Only): This button cycles the Harman Volume function between high, low and off. Harman volume is an advanced digital signal processing technology to control playback volume. It evens out the volume level on everything you watch, improving your listening experience. Once you choose the volume level, Harman Volume does the rest. It helps you avoid volume increase from commercials, volume differences when you change channels or switch sources. It helps you listen to the perfect sound of the dialogs.

Menu: This button helps you navigate through the source's setup menu.

Tone Control: Press this button to access the bass and treble controls. Use the OK button to select an adjustment and use the Up/Down buttons to change the settings.

Exit: Use this key to go back from the source's setup menu.

OK: This button is used to select items from the menu system.

Left/Right/Up/Down Buttons: These buttons are used to navigate the menu systems.

Numeric keys: Use these buttons to enter radio station frequencies when using the tuner (after pressing the Direct button), or to select station presets.

9. Clear: Press this button to clear a radio station frequency you have entered.

Direct: Press this button before using the numeric keys to enter a radio station frequency.

Volume Up/Down buttons: Press these buttons to increase or decrease the volume level.

Speaker 1/2: Press the Speaker 1 button to enable the HK 3700/3770 Speaker 1 outputs, and press the Speaker 2 button to enable the Speaker 2 Outputs. You may enable or disable both sets of speaker outputs simultaneously. This feature is a convenient way of hearing audio in more than one room at a time, although the same source material will be played through both sets of speakers.

CH/Tuner: Use this control to tune a radio station. Tap one end of the button briefly to tune one frequency step at a time, or press and hold it to seek the next frequency with an acceptably strong signal.

P-Scan: Press this button once to scan through the stations you have previously programmed as presets. Each station will play for five seconds before the tuner skips to the next preset station. Press the button second time to select the current station. If no presets have been programmed, the 0 PRESET message will be displayed.

A-Preset: The Auto Preset feature enables you to automatically set presets for all available FM radio stations in your area with a single button press. To start the process, make sure that the FM tuner has been selected as the source. Press and hold this button. The AUTO PRESET message will appear as the HK 3700/3770 tuner scans through all FM stations with acceptable signal quality and programs them into the presets. If there are fewer than 30 stations, the tuner will cycle through again, filling up the higher preset slots with the same stations. The scan will stop when all 30 presets have been filled, or after two scans through the FM band.

MEM: After you have tuned a particular radio station, press this button, then the Numeric Keys, to save that station as a radio preset.

RDS: When listening to an FM radio station that broadcasts RDS information, this button activates the various RDS functions.

Transport Control buttons: These buttons are used to control many source components. When the remote is operating the receiver by default, these buttons will control a Harman Kardon Blu-ray Disc player or DVD player.

Troubleshooting

If your HK 3700/3770 receiver does not perform the way you think it should, check whether the problem is covered in this section before contacting your dealer or a Harman/Kardon representative.

| Problems | Solutions |
|--|--|
| Unit does not function when main Power button is turned ON | <ul style="list-style-type: none"> • Make sure AC power cord is plugged into a live outlet • Check to see whether outlet is switch-controlled |
| No sound from the receiver | <ul style="list-style-type: none"> • Make certain that all input and speaker connections are secure. • Press Mute Button • Turn up Volume Control • Press correct Source Selector • Press Speaker 1 or Speaker 2 Button • Unplug headphones • Replace jumper pins or, if external amplifier is in use, make sure it is turned ON |
| No sound from any speaker | <ul style="list-style-type: none"> • Check speaker-wire connections for shorts at receiver and speaker ends • Contact your local Harman Kardon service center |
| Unit does not respond to remote commands | <ul style="list-style-type: none"> • Change remote batteries • Make certain front-panel sensor is visible to remote or connect an optional remote sensor |
| Intermittent buzzing in tuner | <ul style="list-style-type: none"> • Move unit or antenna away from computers, fluorescent lights, motors or other electrical appliances |
| No video image | <ul style="list-style-type: none"> • Connect the source's composite video output to the correct video input on the HK 3700/3770 • Press the correct Source Selector on the HK 3700/3770 • Connect the HK 3700/3770's Video Monitor Output to a composite video input on your television or video display • Consult the manual for your television for instructions on selecting the correct video input • It is not possible to view video while listening to the Phono, Tape/CDR or CD sources or to the tuner |
| Audio sources sound distorted | <ul style="list-style-type: none"> • Only plug a device into the Phono Inputs if it is a turntable with a moving-magnet cartridge, or if it is a turntable with a moving-coil cartridge with a phono preamp • Do not use a turntable with any inputs other than the Phono Inputs, unless it has a moving-magnet-type cartridge and includes a phono preamp |

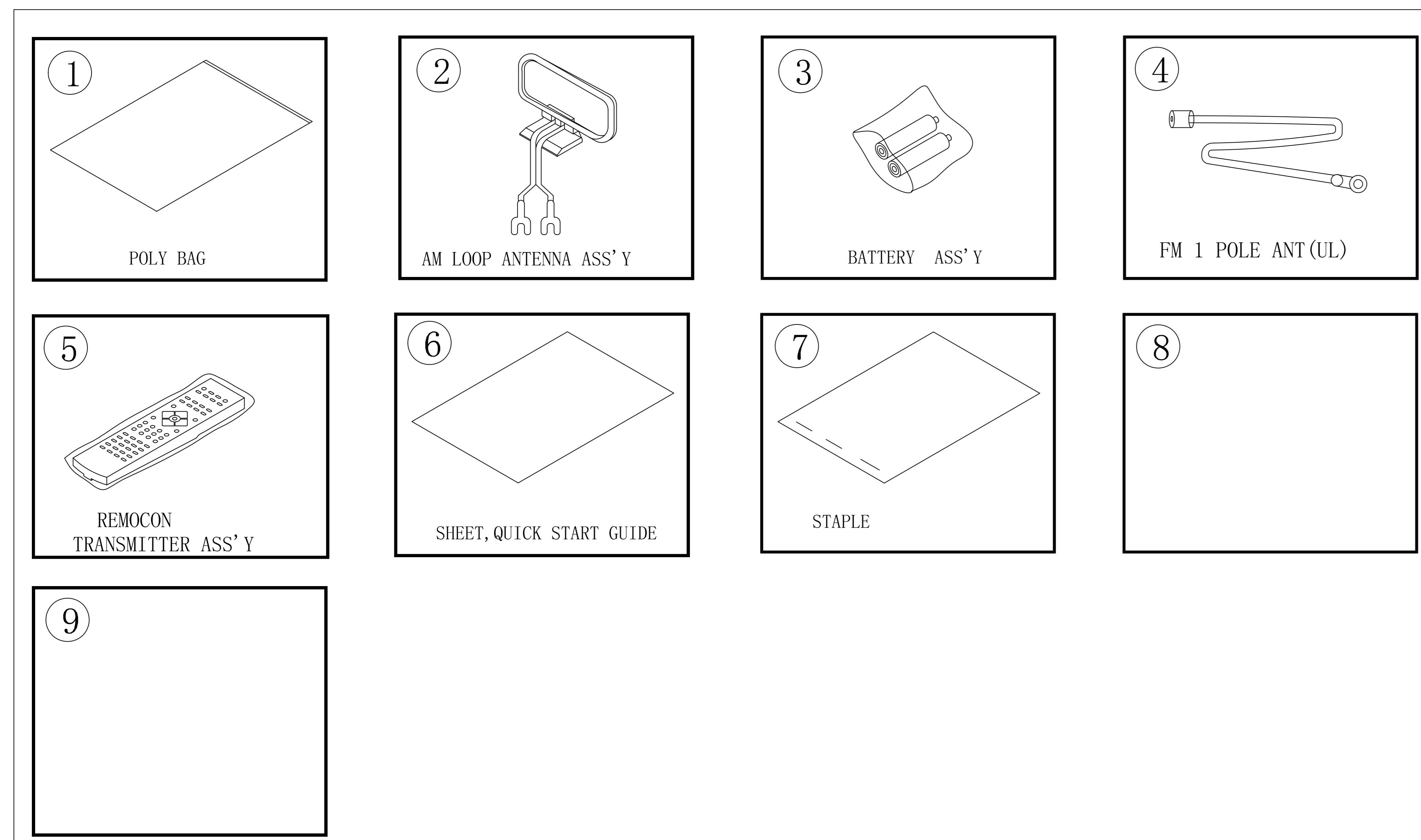
Specifications

| | HK 3700 Stereo Receiver | HK 3770 Stereo Receiver |
|---|---------------------------------------|---------------------------------------|
| Feature Description | | |
| GENERAL FEATURES | | |
| Output Power at 8Ω | 85W @ 8Ω/<0.07%THD | 120W @ 8Ω/<0.07%THD |
| Amplification Type | Class A/B | Class A/B |
| Internet Radio | Yes | Yes |
| Ethernet Connectivity via RJ-45 | Yes | Yes |
| MP3/WMA File Play from USB | with built in 48kHz/24bit DAC decoder | with built in 96kHz/24bit DAC decoder |
| USB Upgrade | Yes | Yes |
| iPod/Phone/Pad/Touch Play from USB | with built in 48kHz/24bit DAC decoder | with built in 96kHz/24bit DAC decoder |
| DLNA 1.5 Certified (Audio Streaming Only) | Yes | Yes |
| Speaker Assign A/B | Yes | Yes |
| Key Components/Cost Factors | | |
| Audio DSP / Harman Volume | Yes | Yes |
| DACs | Mid Range | Higher end |
| PSU | SMPS | SMPS |
| CONNECTIVITY | | |
| AUDIO INPUTS | | |
| iPod audio | Yes with internal DAC | Yes with internal DAC |
| Front USB Input | Yes | Yes |
| AM/FM | Yes | Yes |
| Analog Input on Rear | 5 | 5 |
| Analog Input on Front | No | No |
| DAB | No | No |
| Phono input | Yes | Yes |
| AUDIO OUTPUTS | | |
| Analog Outputs | Yes x1 | Yes x1 |
| Subwoofer Outputs | One | One |
| DIGITAL INPUTS/OUTPUTS | | |
| USB Input | 1 | 1 |
| Digital Audio Inputs, Rear | No | 1 coax/2 optical |

| Feature Description | HK 3700 Stereo Receiver | HK 3770 Stereo Receiver |
|---|-------------------------|-------------------------|
| ETHERNET / USB /STREAMING FEATURES | | |
| Ethernet Connectivity via RJ-45 | Yes | Yes |
| Internet Radio | Yes | Yes |
| USB, MP3, WMA, AAC, WAV | Yes | Yes |
| AirPlay | No | No |
| DLNA 1.5 Certified (Audio Streaming Only) | Yes | Yes |
| Metadata to VFD | Yes | Yes |
| WIRELESS | | |
| WiFi 802.11 b/g/n | No | No |
| Bluetooth | No | Yes |

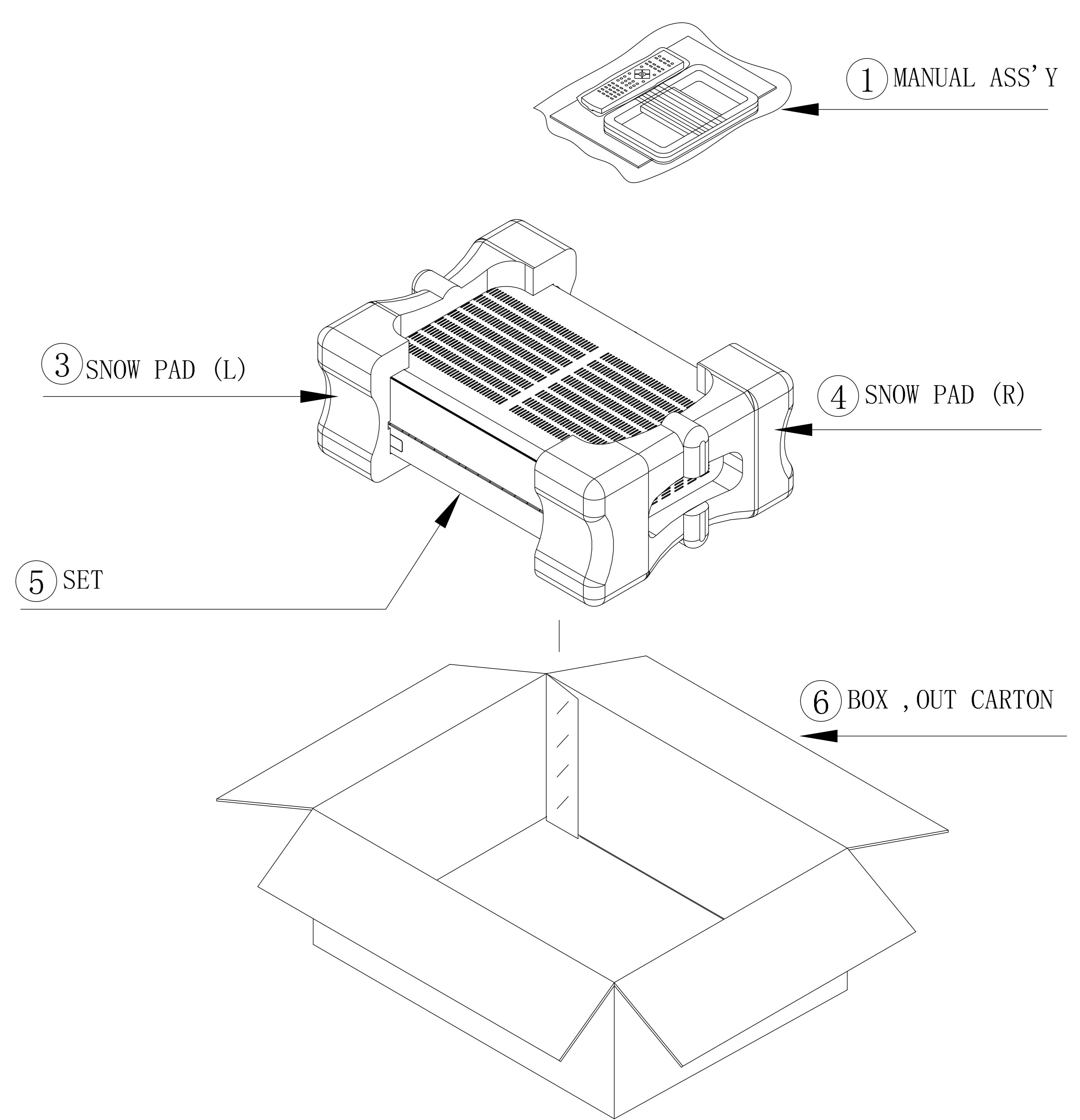
HK3770/230

1. Instruction manual ass'y - Accessories (CQXHK3770/230)




| NO | DESCRIPTION | PARTS NO. | Q, ty |
|----|--------------------------|------------|-------|
| 1 | POLY BAG | CPB1A190Z | 1 |
| 2 | ANT, AM LOOP (9.5uH/5T) | CSA1A039Z | 1 |
| 3 | BATTERY | CABR03PPB | 2 |
| 4 | FM 1 POL ANT (UL) | CSA1A019Z | 1 |
| 5 | REMOCON ASS' Y | CARTHK3700 | 1 |
| 6 | SHEET, QUICK START GUIDE | CQE1A651Z | 1 |
| 7 | STAPLE | CPL0905 | 3 |
| 8 | | | |
| 9 | | | |

2. Package Drawing



| NO | DESCRIPTION | PARTS NO. | Q, ty |
|----|-----------------|---------------|-------|
| 1 | MANUAL ASS' Y | CQXHK3770/230 | 1 |
| 2 | PAD, LEFT | CPS1A930 | 1 |
| 3 | PAD, RIGHT | CPS2A931 | 1 |
| 4 | SET | HK3770/230SET | 1 |
| 5 | BOX, OUT CARTON | CPG1A972H | 1 |

HK3770/230 EXPLODE VIEW

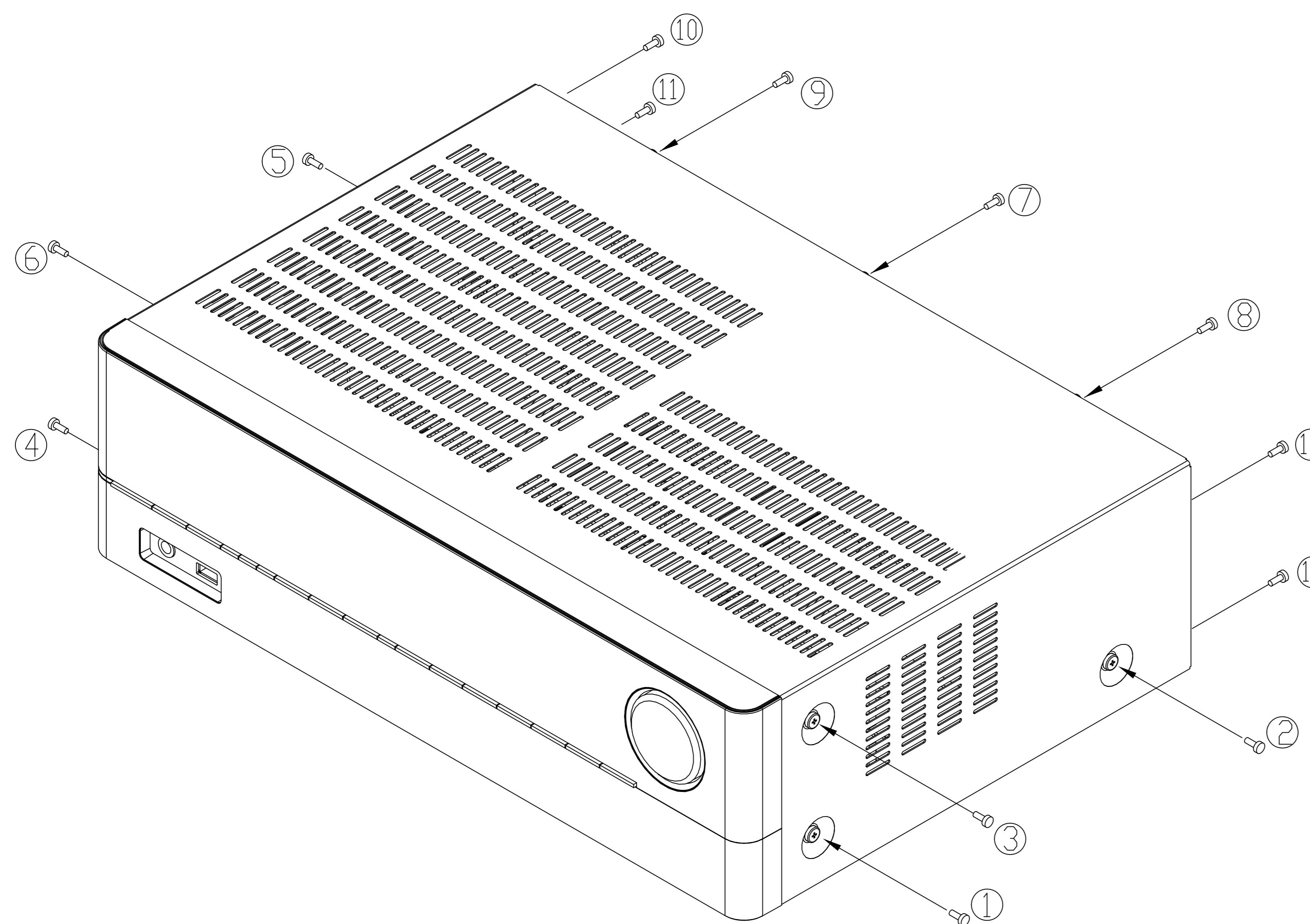


| NO | DESCRIPTION | PARTS NO. | Q.ty | REMARK |
|------|-----------------------------|----------------|------|--------|
| 1 | KNOB,VOLUME | CBNIA269865 | 1 | |
| 2 | INDICATOR,VOLUME | CGLIA300 | 1 | |
| 3 | BADGE, HARMAN/KARDON(FRONT) | CGBIA255Z | 1 | |
| 4 | WINDOW,FIP | CGU2410A25F | 1 | |
| 5 | BADGE , AVR3770 | CGBIA273Z | 1 | |
| 6 | FILTER,FIP | CMZIA145 | 1 | |
| 7 | JACK COVER | CGXIA455B63 | 1 | |
| 8 | KNOB,STANDBY | CBT2A1064 | 1 | |
| 9 | KNOB,BACK | CBT2A1065 | 1 | |
| 10 | ORNAMENT,RING | CGRIA538GS | 1 | |
| 11 | PANEL,FRONT | CGWIA533RHVB63 | 1 | |
| 12 | INDICATOR,POWER | CGLIA265Y | 1 | |
| 13 | SHOOT,BLIND | CPEIA009 | 1 | |
| 14 | SCREW , VOLUME | CGXIA476Z | 1 | |
| 15 | HOLDER , LED | CMH3A215 | 1 | |
| 16 | FOOT A | CKLIA094 | 2 | |
| 17 | FOOT B | CKLIA095 | 2 | |
| 18 | CUSHION , FOOT | CHGIA373 | 4 | |
| 19 | CHASSIS,BOTTOM | CUAIA343 | 1 | |
| 20 | COVER , SCREW | CMDIA815 | 1 | |
| 21 | HOLDER , PCB | CHE170 | 4 | |
| 22 | HEAT SINK | CMYIA405 | 1 | |
| 23 | BRACKET,H/S | CMDIA802 | 2 | |
| 24 | BRACKET,PCB | CMDIA810 | 2 | |
| 25 | BRACKET,FAN | CMDIA828 | 1 | |
| 26 | BRACKET,HDMI | CMDIA809 | 2 | |
| 27 | PANEL,REAR | CKF3A478Z | 1 | |
| 28 | CABINET, TOP | CKCIA219B64 | 1 | |
| 29 | CUSHION , RUBBER | CHGIA160Z | 2 | |
| S1 | SCREW | CTB3+8JFZR | 19 | |
| S2 | SCREW | CTB3+10JFZR | 6 | |
| S3 | SCREW | CTWS3+10GR | 2 | |
| S4 | SCREW | CTB4+6FFZR | 4 | |
| S5 | SCREW | CTB3+10JR | 20 | |
| S6 | SCREW | CTB3+8JR | 19 | |
| S7 | SCREW | CTW3+12JR | 4 | |
| S8 | SCREW | CTS3+8JFZR | 4 | |
| S9 | SCREW | CTB3+6FFZR | 9 | |
| S10 | SCREW | CTB3+6JR | 4 | |
| S11 | SCREW | CTW3+8JR | 6 | |
| S12 | SCREW | CHD1A012R | 10 | |
| S13 | SCREW | CHD4A012R | 5 | |
| S14 | SCREW, SPECIAL | CHD1A036R | 2 | |
| S15 | SCREW | CTB4+10JFZR | 2 | |
| 40-1 | FIP & KEY PCB | CDP12620E | 1 | |
| 40-2 | POWER LED PCB | CDP12609D | 1 | |
| 40-3 | VOLUME PCB | CDP12609D | 1 | |
| 40-4 | PHONE PCB | CDP12609D | 1 | |
| 41 | DIGITAL PCB ASS'Y | CDP12609D | 1 | |
| 42-1 | SENDER PCB | CDP12609D | 1 | |
| 42-2 | MAIN PCB | CDP12609D | 1 | |
| 42-3 | GUIDE PCB CARD | CDP12609D | 1 | |
| 42-4 | JACK PCB ASS'Y | CDP12609D | 1 | |
| 42-5 | TUNER PCB | CDP12610E | 1 | |
| 43 | SMPS PCB ASS'Y | CDP12610E | 1 | |
| 44 | BT PCB ASS'Y | CDP12612D | 1 | |
| 45 | INDUCTOR , PFC | CLZ9148Z | 1 | |

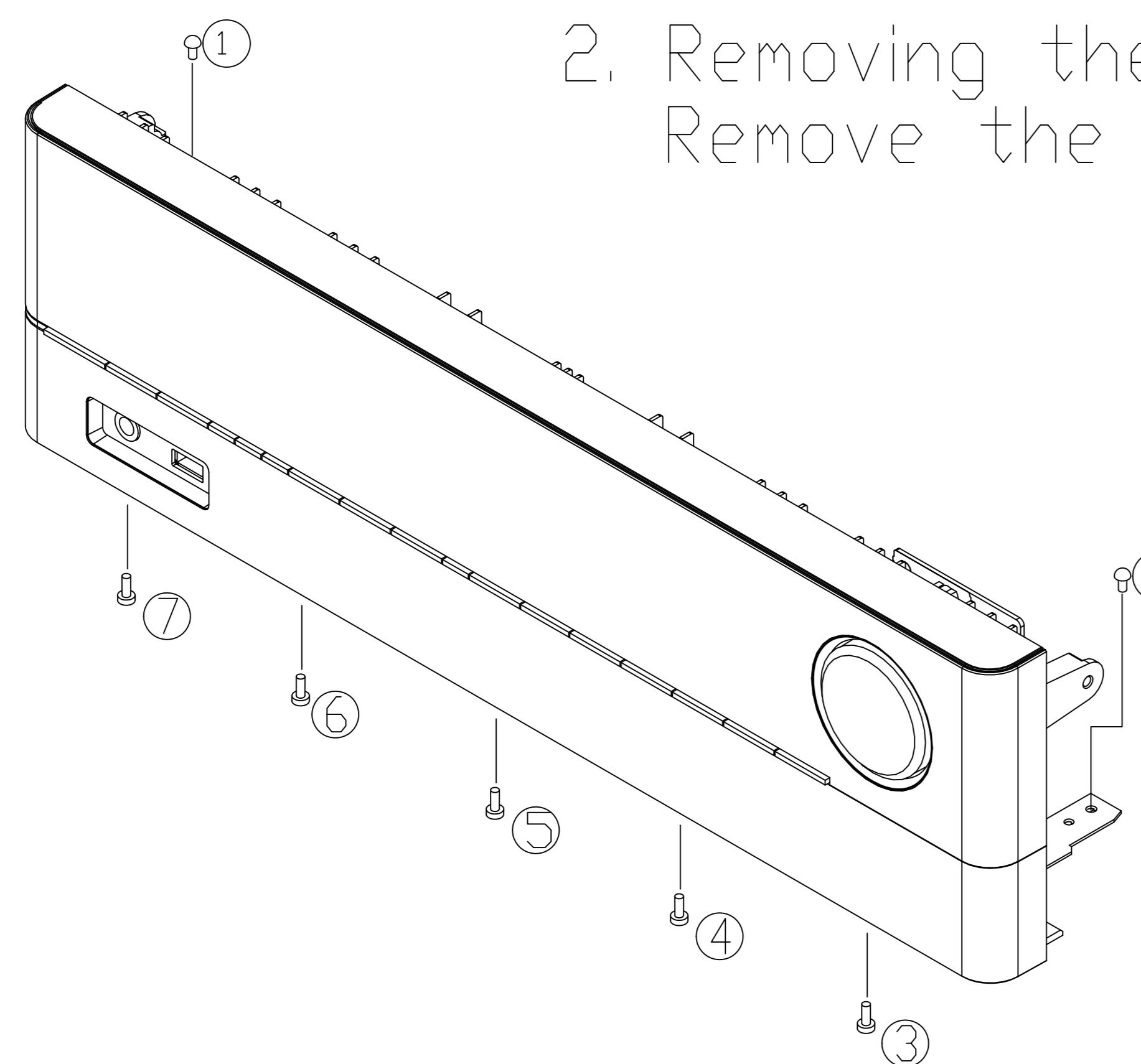
DISASSEMBLY

HK3770/230

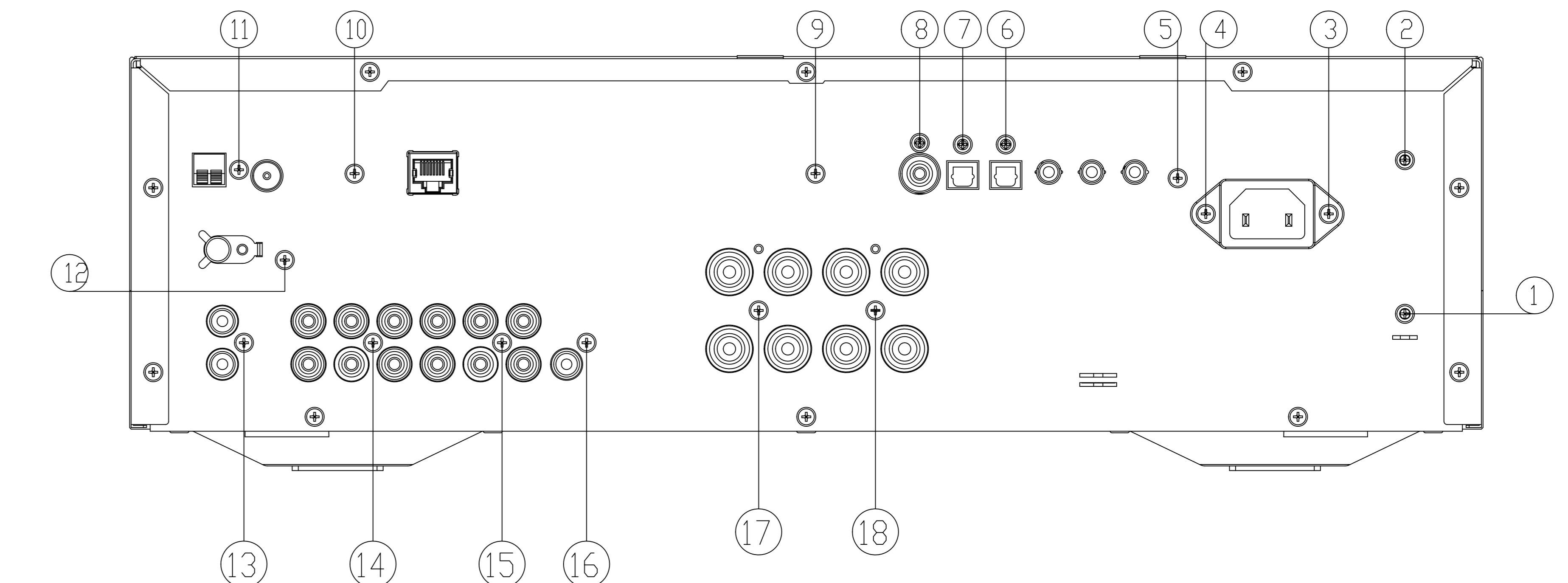
1. Removing the Top Cabinet
Remove the Screws ①~⑬



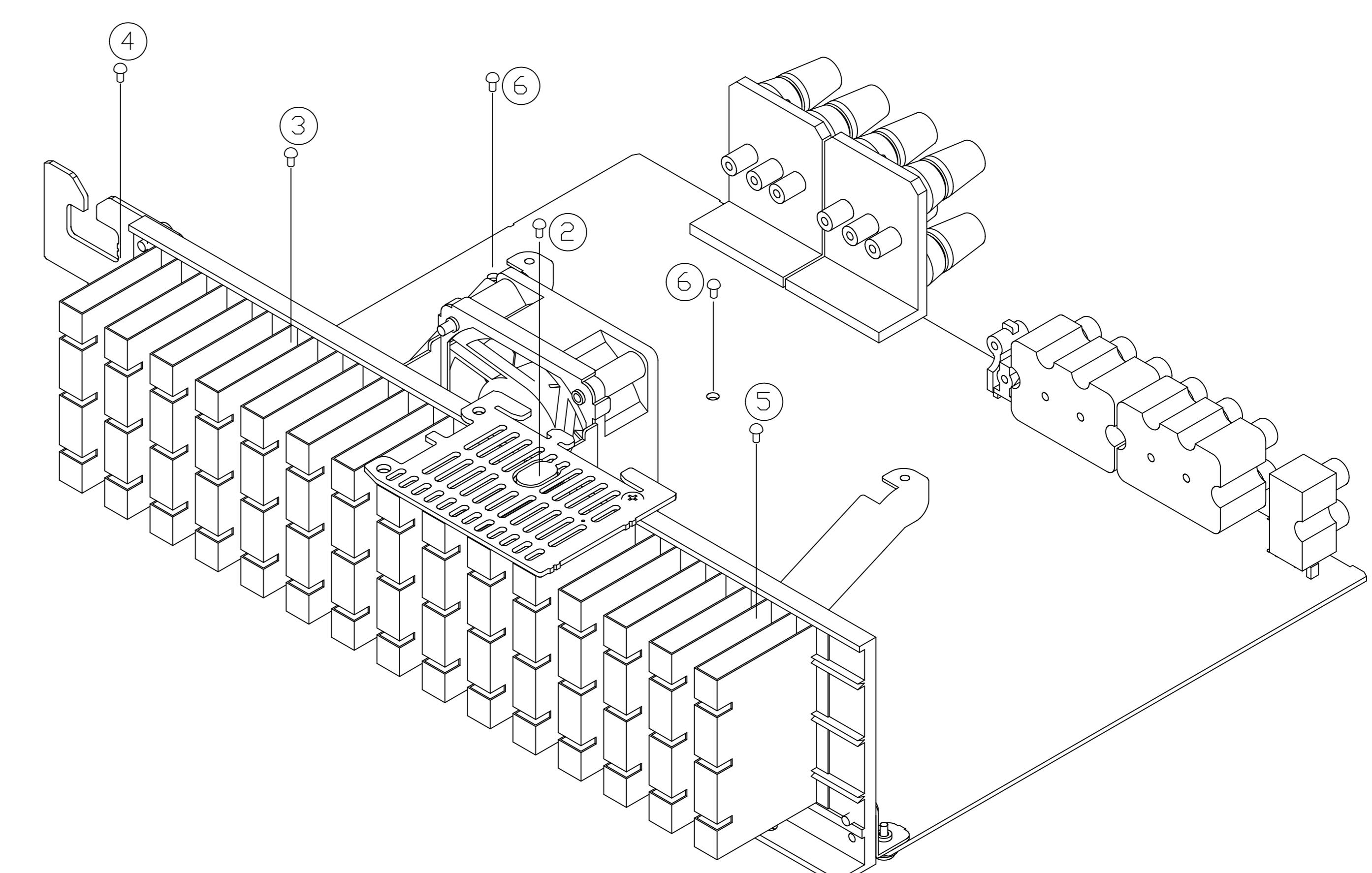
2. Removing the Front Panel
Remove the Screws ①~⑦



3. Removing the Rear Panel
Remove the Screws ①~⑯



4. Removing the Main PCB
Remove the Screws ①~⑥



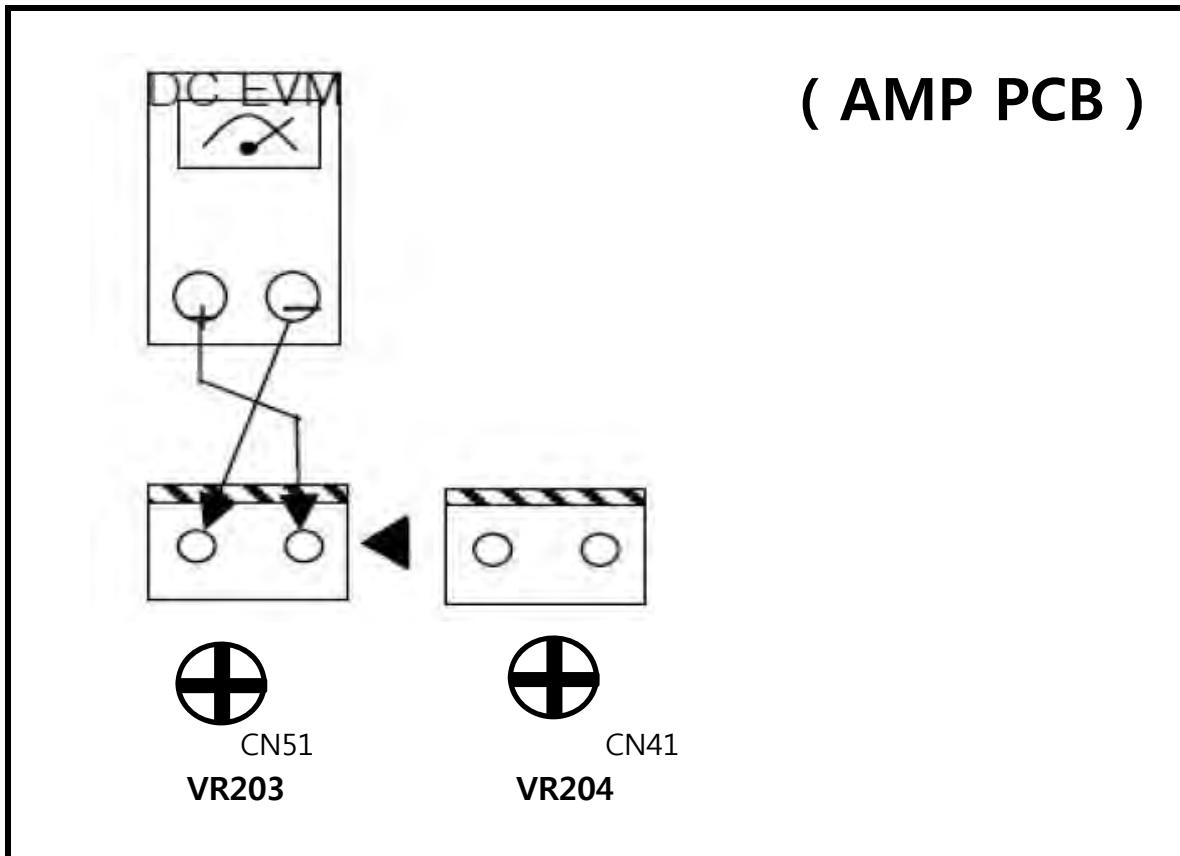
AMPLIFIER SECTION BIAS ADJUSTMENT

Measurement condition

- No input signal or volume position is minimum.
- Do not adjust at FM/AM.

Standard value

- Ideal current = 48mA ($\pm 7\%$)
- Ideal DC Voltage = 22.5mA ($\pm 7\%$)



DC VOLTMETER : Connect to
CN51 (L-CH), CN41 (R-CH)

| No. | Channel | Adjust for | Adjust |
|-----|---------|---------------------|--------|
| 1 | Left | 22.5mV($\pm 7\%$) | CN51 |
| 2 | Right | 22.5mV($\pm 7\%$) | CN41 |

[HK3700/3770 Reset Procedure]

1. Standby mode.
2. Press the Tun mode key for a few seconds.



3. VFD will show as below.



4. Complete reset.

[HK3700 Firmware Upgrade Instructions]

1. Copy the latest firmware files (*.fw and *.ve) to a USB stick's root directory.
2. Plug a USB stick into the front panel.
3. Power ON by using the remote control or the set button.
4. After 30 seconds, press 'STEREO' key and 1,7,1,8 + 'ok' buttons on R/C.

Followings will be shown on the VFD.

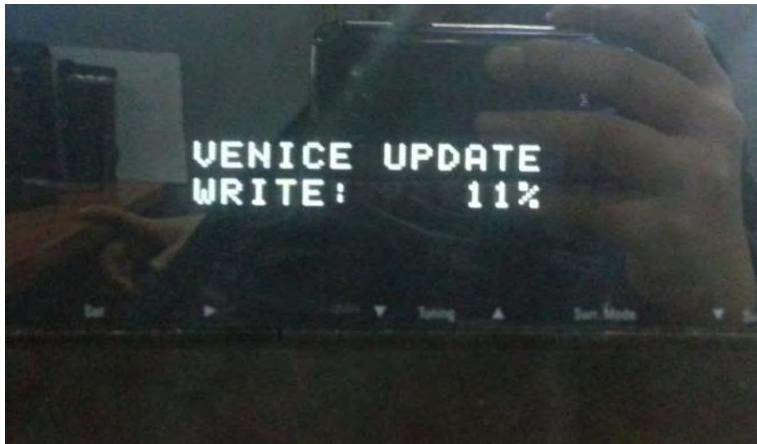
| |
|-------------------------------|
| VFD 1st line : SYSTEM UPGRADE |
| VFD 2nd line : Searching.. |



5. After USB searching, Venice upgrade begins.
- Followings will be shown on the VFD.

| |
|------------------------------|
| VFD 1st line : VENICE UPDATE |
| VFD 2nd line : [Updating %] |

It takes about 6~8 minutes to upgrade the firmware.



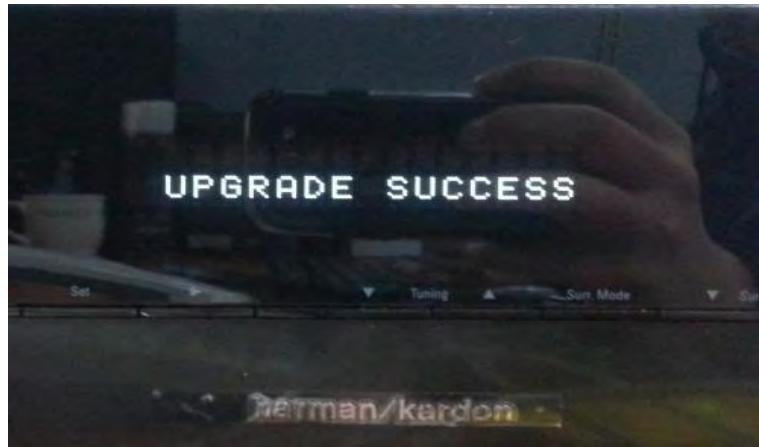
6. After Venice upgrade, MCU upgrade begins.
Followings will be shown on the VFD.

| |
|-----------------------------|
| VFD 1st line : MCU UPDATE |
| VFD 2nd line : [Updating %] |

It takes about 25~30 seconds to upgrade the firmware.



7. Completing MCU upgrade, Set will automatically reboots.
"UPGRADE SUCCESS" will be shown on the VFD.



8. VFD will display followings after displaying "UPGRADE SUCCESS".

| |
|----------------------------|
| VFD 1st line : FM 87.50 01 |
| VFD 2nd line : 2 CH STEREO |



Harman Kardon HK 3770 Bill of Materials

| Level | Ref# | Component | Description | REQ-Qty | UM |
|-------|------------------|-------------------------------|--|---------|----|
| 1 | CHE154 | CLAMPER , ARM | | 0,12 | M |
| 1 | CPG1A972H | BOX , OUT CARTON HK3770 | | 1 | EA |
| 1 | CPS1A930 | PAD , LEFT | | 1 | EA |
| 1 | CPS2A931 | PAD , RIGHT | | 1 | EA |
| 1 | CQB1A907Z | LABEL , BAR CODE AVR154 | | 1 | EA |
| 1 | CQB1A978 | LABEL , BAR CODE(SET) | | 1 | EA |
| 1 | CQXHK3770/230 | INSTRUCTION MANUAL ASS'Y | | 1 | EA |
| 0,2 | CABR03PPB | BATTERY , AAA 2PCS IN PACK | | 2 | EA |
| 0,2 | CARTHK3700 | REMOTE CONTROLLER (HK37x0) | | 1 | EA |
| 0,2 | CJA2B144Z | CORD , POWER (16A-250V) | | 1 | EA |
| 0,2 | CSA1A018Z | FM 1 POLE ANT | | 1 | EA |
| 0,2 | CSA1A039Z | ANT, AM LOOP(9.5uH/5T) | | 1 | EA |
| 1 | CRE1A037 | LOCKER | | 14 | EA |
| 0,2 | CBN1A269B65 | KNOB , VOLUME | | 1 | EA |
| 0,2 | CGL1A300 | INDICATOR , VOLUME | | 1 | EA |
| 0,2 | CGR1A555B63 | COVER , JACK AVR1510 | | 1 | EA |
| 0,2 | CGWHK3770/230 | FRONT PANEL ASS'Y | | 1 | EA |
| ..3 | CBT2A1064 | KNOB , STANDBY | | 1 | EA |
| ..3 | CBT2A1065 | KNOB , BACK | | 1 | EA |
| ..3 | CGB1A273Z | BADGE , AVR3770 | | 1 | EA |
| ..3 | CGB3A158Z | BADGE , HARMAN/KARDON (FRONT) | | 1 | EA |
| ..3 | CGL1A265Y | INDICATOR , POWER AVR155 | | 1 | EA |
| ..3 | CGR1A538G5 | ORNAMENT , RING | | 1 | EA |
| ..3 | CGU2A410A25F | WINDOW , FIP HK3770 | | 1 | EA |
| ..3 | CGW1A533RHVB63 | PANEL , FRONT HK3770 | | 1 | EA |
| ..3 | CGX1A476Z | SHEET , VOLUME | | 1 | EA |
| ..3 | CMH3A215 | HOLDER , LED | | 1 | EA |
| ..3 | CMZ1A145Z | FILTER , FIP AVR1510 | | 1 | EA |
| ..3 | COP12607B | HK3770 FRONT PCB ASS'Y | | 1 | EA |
|6 | C109 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C121 | CCUS1H151JAS | CAP, CHIP(1608, 50V/150pF, COG) _SAMSUNG | 1 | EA |
|6 | C151 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C213 | CCUS1H223KCS | CAP, CHIP(1608, 50V/0.022uF, X7R) _SAMSUNG | 1 | EA |
|6 | C214 | CCUS1H223KCS | CAP, CHIP(1608, 50V/0.022uF, X7R) _SAMSUNG | 1 | EA |
|6 | C311 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R) _SAMSUNG | 1 | EA |
|6 | C322 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R) _SAMSUNG | 1 | EA |
|6 | C431 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C441 | CCUS1H223KCS | CAP, CHIP(1608, 50V/0.022uF, X7R) _SAMSUNG | 1 | EA |
|6 | C442 | CCUS1H223KCS | CAP, CHIP(1608, 50V/0.022uF, X7R) _SAMSUNG | 1 | EA |
|6 | C451 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C456 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C557 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C558 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C601 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C602 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C603 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C604 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C605 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C644 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C645 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG) _SAMSUNG | 1 | EA |
|6 | C646 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG) _SAMSUNG | 1 | EA |
|6 | C647 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C714 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C715 | CCUS0J475KCS | CAP, CHIP(1608, 6.3V/4.7uF, X5R) _SAMSUNG | 1 | EA |
|6 | C732 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|6 | C751 | CCUS1H222KCS | CAP, CHIP(1608, 50V/2200pF, X7R) _SAMSUNG | 1 | EA |
|6 | C752 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R) _SAMSUNG | 1 | EA |
|6 | C753 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R) _SAMSUNG | 1 | EA |
|6 | C754 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |

| | | | | | |
|-------|------|----------------|---|---|----|
|6 | C911 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C912 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C923 | CCUS1H681JAS | CAP, CHIP(1608, 50V/680pF, COG)_SAMSUNG | 1 | EA |
|6 | C924 | CCUS1H681JAS | CAP, CHIP(1608, 50V/680pF, COG)_SAMSUNG | 1 | EA |
|6 | C951 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C952 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | D643 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D644 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | IC13 | CVISN74ACT04DR | I.C , HEX INVERTERS(SOIC/D-14P) | 1 | EA |
|6 | IC91 | HVTKTC812TB | EOL item T.R , CHIP(TS6) | 1 | EA |
|6 | IC92 | HVTKTC812TB | EOL item T.R , CHIP(TS6) | 1 | EA |
|6 | L451 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|6 | Q111 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|6 | Q112 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|6 | Q113 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|6 | Q114 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|6 | Q252 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|6 | Q721 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|6 | Q906 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|6 | Q907 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|6 | R101 | CRJ10DJ331T | RES, CHIP(1608/5%/330ohm) | 1 | EA |
|6 | R102 | CRJ10DJ681T | RES, CHIP(1608/5%/680ohm) | 1 | EA |
|6 | R104 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R108 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R109 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R110 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R111 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R112 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R113 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R114 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R122 | CRJ10DJ100T | RES, CHIP(1608/5%/10ohm) | 1 | EA |
|6 | R151 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R201 | CRJ10DJ181T | RES, CHIP(1608/5%/180ohm) | 1 | EA |
|6 | R202 | CRJ10DJ181T | RES, CHIP(1608/5%/180ohm) | 1 | EA |
|6 | R203 | CRJ10DJ181T | RES, CHIP(1608/5%/180ohm) | 1 | EA |
|6 | R211 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R213 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|6 | R214 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|6 | R251 | CRJ10DJ222T | RES, CHIP(1608/5%/2.2Kohm) | 1 | EA |
|6 | R252 | CRJ10DJ393T | RES, CHIP(1608/5%/39Kohm) | 1 | EA |
|6 | R312 | CRJ10DF1001T | RES, CHIP(1608/1%/1Kohm) | 1 | EA |
|6 | R313 | CRJ10DF1501T | RES, CHIP(1608/1%/1.5Kohm) | 1 | EA |
|6 | R314 | CRJ10DF1801T | RES, CHIP(1608/1%/1.8Kohm) | 1 | EA |
|6 | R315 | CRJ10DF2701T | RES, CHIP(1608/1%/2.7Kohm) | 1 | EA |
|6 | R316 | CRJ10DF3301T | RES, CHIP(1608/1%/3.3Kohm) | 1 | EA |
|6 | R322 | CRJ10DF1001T | RES, CHIP(1608/1%/1Kohm) | 1 | EA |
|6 | R323 | CRJ10DF1501T | RES, CHIP(1608/1%/1.5Kohm) | 1 | EA |
|6 | R324 | CRJ10DF1801T | RES, CHIP(1608/1%/1.8Kohm) | 1 | EA |
|6 | R325 | CRJ10DF2701T | RES, CHIP(1608/1%/2.7Kohm) | 1 | EA |
|6 | R326 | CRJ10DF3301T | RES, CHIP(1608/1%/3.3Kohm) | 1 | EA |
|6 | R327 | CRJ10DF5601T | RES, CHIP(1608/1%/5.6Kohm) | 1 | EA |
|6 | R328 | CRJ10DF5601T | RES, CHIP(1608/1%/5.6Kohm) | 1 | EA |
|6 | R402 | CRJ14CJ4R7T | RES, CHIP(3216/5%/4.7ohm) | 1 | EA |
|6 | R404 | CRJ14CJ4R7T | RES, CHIP(3216/5%/4.7ohm) | 1 | EA |
|6 | R431 | CRJ10DJ100T | RES, CHIP(1608/5%/10ohm) | 1 | EA |
|6 | R432 | CRJ10DJ100T | RES, CHIP(1608/5%/10ohm) | 1 | EA |
|6 | R451 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R452 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R453 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R454 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R455 | CRJ14CJ101T | RES, CHIP(3216/5%/100ohm) | 1 | EA |
|6 | R456 | CRJ14CJ101T | RES, CHIP(3216/5%/100ohm) | 1 | EA |

| | | | | | |
|-------|-------|----------------|--|---|----|
|6 | R457 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R601 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R602 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R603 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R604 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R605 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R641 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R643 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R644 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R701 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R702 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R703 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R711 | CRJ10DJ470T | RES, CHIP(1608/5%/47ohm) | 1 | EA |
|6 | R712 | CRJ10DJ470T | RES, CHIP(1608/5%/47ohm) | 1 | EA |
|6 | R713 | CRJ10DJ470T | RES, CHIP(1608/5%/47ohm) | 1 | EA |
|6 | R721 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R722 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R731 | CRJ10DJ100T | RES, CHIP(1608/5%/10ohm) | 1 | EA |
|6 | R735 | CRJ10DJ152T | RES, CHIP(1608/5%/1.5Kohm) | 1 | EA |
|6 | R741 | CRJ10DJ123T | RES, CHIP(1608/5%/12Kohm) | 1 | EA |
|6 | R742 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R901 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R902 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R921 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R922 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R923 | CRJ10DJ152T | RES, CHIP(1608/5%/1.5Kohm) | 1 | EA |
|6 | R924 | CRJ10DJ152T | RES, CHIP(1608/5%/1.5Kohm) | 1 | EA |
|6 | R925 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R926 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R931 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R932 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R933 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R934 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R935 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R936 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R941 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R942 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R943 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R944 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R951 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R952 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | ZD451 | HVDUDZS5.6BSR | DIODE , ZENER(CHIP,5.6V) | 1 | EA |
|6 | ZD452 | HVDUDZS5.6BSR | DIODE , ZENER(CHIP,5.6V) | 1 | EA |
|6 | ZD453 | HVDUDZS5.6BSR | DIODE , ZENER(CHIP,5.6V) | 1 | EA |
|5 | C108 | CCEA1AH471TC | CAP, ELECT(10V/470uF) | 1 | EA |
|5 | C122 | CCEA1AKS331TC | CAP, ELECT(10V/330uF)-S | 1 | EA |
|5 | C152 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C251 | CCEA1CH101TC | CAP, ELECT(16V/100uF) | 1 | EA |
|5 | C252 | CCEA1HKS2R2TC | CAP, ELECT(50V/2.2uF)-S | 1 | EA |
|5 | C401 | CCEA1HH470TC | CAP , ELECT (50V/47uF) | 1 | EA |
|5 | C452 | CCEA1CH101TC | CAP, ELECT(16V/100uF) | 1 | EA |
|5 | C453 | CCEA1JH470TCS | CAP , ELECT(63V/47uF),105'C | 1 | EA |
|5 | C454 | CCME2E273JX14T | CAP , POLYESTER FILM(250V/0.027uF, 5%) | 1 | EA |
|5 | C455 | CCEA1CH101TC | CAP, ELECT(16V/100uF) | 1 | EA |
|5 | C556 | CCEA1AKS331TC | CAP, ELECT(10V/330uF)-S | 1 | EA |
|5 | C559 | CCEA1AKS331TC | CAP, ELECT(10V/330uF)-S | 1 | EA |
|5 | C721 | CCEA1HKS2R2TC | CAP, ELECT(50V/2.2uF)-S | 1 | EA |
|5 | C731 | CCEA1AH471TC | CAP, ELECT(10V/470uF) | 1 | EA |
|5 | C901 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C902 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C931 | CCEA1CH331TC | CAP, ELECT(16V/330uF) | 1 | EA |
|5 | C932 | CCEA1CH331TC | CAP, ELECT(16V/330uF) | 1 | EA |

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|-------|------------------|----------------------|--|---|----|
|5 | C933 | CCEA1EH470TC | CAP, ELECT(25V/47uF) | 1 | EA |
|5 | C944 | CCEA1EH470TC | CAP, ELECT(25V/47uF) | 1 | EA |
|5 | ET90 | CT1A026 | PLATE , EARTH(TRONIC ELECTRONICS) | 1 | EA |
|5 | L452 | CLZ9Z112Z | COIL , CHOKE (220uH) | 1 | EA |
|5 | Q251 | HVTKTA1271YT | T.R | 1 | EA |
|5 | Q451 | CVTKTC1027YT | T.R | 1 | EA |
|5 | Q452 | CVTKTC1027YT | T.R | 1 | EA |
|5 | S311 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S312 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S313 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S314 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S315 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S316 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S317 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S318 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S319 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S320 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S321 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S322 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S323 | CST1A024ZT | SW , TACT | 1 | EA |
|5 | S330 | CST1A024ZT | SW , TACT | 1 | EA |
|4 | BK71 | CMD1A572-V1 | BRACKET , FIP | 1 | EA |
|4 | BK72 | CMD1A572-V1 | BRACKET , FIP | 1 | EA |
|4 | BN71 | CWB1B007150HC | WIRE ASS'Y Locking (YH) (7P,2MM,150MM,#26) | 1 | EA |
|4 | BN72 | CWB1B005100HC | WIRE ASS'Y Locking (YH) (5P,2MM,100MM,26#) | 1 | EA |
|4 | BN73 | CJP06GB142ZB | PIN HEADER(6P, 2.54mm) | 1 | EA |
|4 | BN76 | CWB1C207300H6001 | WIRE ASS'Y (7P,2.0mm,300mm,Shield_ANGLE)_usb | 1 | EA |
|4 | BN78 | CWB1B005100HC | WIRE ASS'Y Locking (YH) (5P,2MM,100MM,26#) | 1 | EA |
|4 | CN72 | CJP05GJ288ZY | LOCK-WAFER/ANGLE/2MM PITCH/5PIN | 1 | EA |
|4 | CN73 | CJP06GB143ZB | FEMALE HEADER(6P, 2.54mm) | 1 | EA |
|4 | CN78 | CJP05GI236ZW | LOCKING TYPE , STRAIGHT WAFER , 2mm | 1 | EA |
|4 | D101 | CVD1L0345W31BOCT201V | L.E.D , WHITE | 1 | EA |
|4 | D102 | CVD30ASOGCAA-S7 | L.E.D , ORANGE | 1 | EA |
|4 | D201 | CVD1L0345W31BOCT201V | L.E.D , WHITE | 1 | EA |
|4 | D202 | CVD1L0345W31BOCT201V | L.E.D , WHITE | 1 | EA |
|4 | D203 | CVD1L0345W31BOCT201V | L.E.D , WHITE | 1 | EA |
|4 | FIP1 | CFL162SD19GINK | V.F.D , (FUTABA, 162-SD-19GINK) | 1 | EA |
|4 | IC12 | CRVKSM603TE5B | SENSOR , REMOCON | 1 | EA |
|4 | IC15 | HVINJM4556AL | I.C , HEADPHONE (JRC) | 1 | EA |
|4 | JK53 | CJJ9X016Z | JACK , USB ANGLE TYPE (2.1A) | 1 | EA |
|4 | JK64 | CJJ2E026Z | JACK, PHONES(6.35mm,SILVER) | 1 | EA |
|4 | JW19 | CWE8202150RV | WIRE ASS'Y | 1 | EA |
|4 | JW20 | CWE8202120RV | WIRE ASS'Y | 1 | EA |
|4 | TF94 | CLT9Z092ZE | TRANS , DC-AC (AVR1X1) | 1 | EA |
|4 | VR74 | CSR2A037Z | ENCODER | 1 | EA |
|4 | WF70 | CJP23GA285ZN | WAFER,FPC 1.25mm,stright | 1 | EA |
|3 | COP12612D | | HK3770 BT PCB ASS'Y | 1 | EA |
|7 | AN1101 | CLA9V003Z | BLUETOOTH ANT , CHIP(3.0*1.5) 2.425MHz | 1 | EA |
|7 | C1101 | CCUS1A105KCS | CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1109 | CCUI1H101JAS | CAP, CHIP(1005, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|7 | C1111 | CCUI1H101JAS | CAP, CHIP(1005, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|7 | C1112 | CCUI1H1R2CAS | CAP, CHIP(1005, 50V/1.2pF, COG)_SAMSUNG | 1 | EA |
|7 | C1134 | CCUS0J225KCS | CAP, CHIP(1608, 6.3V/2.2uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1135 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1136 | CCUC0J106KCS | CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | D1100 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | D1101 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | IC1101 | CVIMX25L8006EM2I-12G | I.C, SERIAL FLASH(8M) | 1 | EA |
|7 | R1113 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|7 | R1119 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | R1120 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | R1121 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |

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|-------|--------|------------------|---|------|----|
|7 | R1122 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | | CUP12510Z | PCB,AVR1710 BT(FR-4/2L/293X181) | 0,07 | EA |
|7 | CN1101 | CJP17GB210ZY | WAFER, (CARD CABLE,ANGLE, SMT, 1MM,10008HR-17L(P) | 1 | EA |
|7 | CN1102 | CJP07GA193ZY | WAFER, FFC, SMD(07P-1mm, STRAIGHT) | 1 | EA |
|7 | C1100 | CCUI1C104KCS | CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1102 | CCUC0J106KCS | CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1103 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1104 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1130 | CCUI1C104KCS | CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1131 | CCUI1C104KCS | CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1132 | CCUS0J225KCS | CAP, CHIP(1608, 6.3V/2.2uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1133 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1137 | CCUS1H222KCS | CAP, CHIP(1608, 50V/2200pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1138 | CCUS1H222KCS | CAP, CHIP(1608, 50V/2200pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1139 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1140 | CCUC0J106KCS | CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1141 | CCEC1CMVG100T | CAP, ALUMINUM ELECTROLYTIC (16V/10uF) | 1 | EA |
|7 | C1142 | CCEC1CMVG100T | CAP, ALUMINUM ELECTROLYTIC (16V/10uF) | 1 | EA |
|7 | IC1100 | CNVBM840-HK3770 | MODULE, BLUETOOTH SPEC 4.0 | 1 | EA |
|7 | IC1102 | CVIPCM5100PWR | I.C , 2CH DAC(32BIT,384KHZ,TSSOP-20P) | 1 | EA |
|7 | L1130 | CLZ9R005V | FERRITE CHIP BEAD(1608/60R, CB03YTYH600) | 1 | EA |
|7 | RN1100 | CRJ104DJ330T | RES, CHIP(1608/5%/33ohm*4) | 1 | EA |
|7 | R1100 | CRJ06IJ332T | RES, CHIP(1005/5%/3.3Kohm) | 1 | EA |
|7 | R1101 | CRJ06IJ103T | RES, CHIP(1005/5%/10Kohm) | 1 | EA |
|7 | R1102 | CRJ06IJ103T | RES, CHIP(1005/5%/10Kohm) | 1 | EA |
|7 | R1103 | CRJ06IJ332T | RES, CHIP(1005/5%/3.3Kohm) | 1 | EA |
|7 | R1104 | CRJ06IJ103T | RES, CHIP(1005/5%/10Kohm) | 1 | EA |
|7 | R1105 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1106 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1107 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1108 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1114 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1115 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | R1116 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | R1117 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1118 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1129 | CRJ06IJ103T | RES, CHIP(1005/5%/10Kohm) | 1 | EA |
|7 | R1130 | CRJ06IJ103T | RES, CHIP(1005/5%/10Kohm) | 1 | EA |
|7 | R1132 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1133 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1134 | CRJ10DJ471T | RES, CHIP(1608/5%/470ohm) | 1 | EA |
|7 | R1135 | CRJ10DJ471T | RES, CHIP(1608/5%/470ohm) | 1 | EA |
|7 | R1136 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1137 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
| ..4 | | C2K86102 | SOLDER , FLUX WIRE PB FREE(PIE 1.0) | 1,6 | G |
| ..4 | BK21 | CMD1A629 | BRACKET , PCB | 1 | EA |
| ..4 | BK22 | CMD1A629 | BRACKET , PCB | 1 | EA |
| ..3 | | CPE2A009 | SHEET , BLIND | 1 | EA |
| ..3 | | CTB3+10JR | SCREW | 28 | EA |
| ..3 | | CTWS3+10GR | SCREW | 2 | EA |
| ..3 | | CWC4F2A17A180B10 | CARD , CABLE (17P,1.0mm,180mm,B,10mm) | 1 | EA |
| ..3 | | CWC6C4A23B220B10 | CARD , CABLE (23P,1.25mm,220mm,B,10mm) | 1 | EA |
| 0,2 | | CHS1A316 | TAPE, HEMELON | 1 | EA |
| 0,2 | | CKC3A219B64 | CABINET, TOP AVR1510 | 1 | EA |
| 0,2 | | CQB1A549Y | LABEL , ATTENTION DVD48 | 1 | EA |
| 0,2 | | CQB1A622 | LABEL , SERIAL NO | 1 | EA |
| 0,2 | | CQB1A906Z | LABEL , HOT | 1 | EA |
| 0,2 | | CTB3+8JFZR | SCREW | 7 | EA |
| 0,2 | | CTB4+10JFZR | SCREW | 2 | EA |
| 0,2 | | CTB4+6FFZR | SCREW | 4 | EA |
| 0,2 | | CUAHK3770/230 | BOTTOM CHASSIS ASS'Y | 1 | EA |
| ..3 | | CHD1A036FZR | SCREW , SPECIAL | 2 | EA |

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|-------|------------------|---------------------------------------|---|----|----|
| ..3 | CHD4A012R | SCREW , SPECIAL | 5 | EA | |
| ..3 | CHE170 | HOLDER , PCB | 5 | EA | |
| ..3 | CHE36-3 | CLAMPER , WIRE | 1 | EA | |
| ..3 | CHG1A160Z | CUSHION , RUBBER | 2 | EA | |
| ..3 | CHG1A341 | CUSHION , FOOT | 1 | EA | |
| ..3 | CHG1A373 | EOL item CUSHION , FOOT AVR350 | 4 | EA | |
| ..3 | CHR301-V1 | CLAMPER | 2 | EA | |
| ..3 | CHS1A032 | TAPE , HEMELON | 4 | EA | |
| ..3 | CKF3A478Z | PANEL , REAR HK3770/3700 | 1 | EA | |
| ..3 | CKL1A094 | FOOT , A AVR350 | 2 | EA | |
| ..3 | CKL1A095 | FOOT , B AVR350 | 2 | EA | |
| ..3 | CLZ9Z180Z | INDUCTOR , PFC(2.3mH MIN) WIRE(100MM) | 1 | EA | |
| ..3 | CMA1A006 | TERMINAL , GROUND | 1 | EA | |
| ..3 | CMD1A809 | BRACKET , HDMI | 2 | EA | |
| ..3 | CMD1A815 | COVER , SCREW | 1 | EA | |
| ..3 | CMD1A828 | BRACKET , FAN | 1 | EA | |
| ..3 | CMD2A506 | BRACKET , FAN | 1 | EA | |
| ..3 | COP12609E | HK3770/230 MAIN PCB ASS'Y | 1 | EA | |
|6 | C252 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C253 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C255 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C301 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C302 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C305 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C306 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C322 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C326 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C327 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C328 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C340 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C341 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C342 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C343 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C344 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C345 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C346 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C347 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C348 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C349 | CCUS1H471JAS | CAP, CHIP(1608, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C350 | CCUS1H221JAS | CAP, CHIP(1608, 50V/220pF, COG)_SAMSUNG | 1 | EA |
|6 | C351 | CCUS1H221JAS | CAP, CHIP(1608, 50V/220pF, COG)_SAMSUNG | 1 | EA |
|6 | C380 | CCUS1H220JAS | CAP, CHIP(1608, 50V/22pF, COG)_SAMSUNG | 1 | EA |
|6 | C381 | CCUS1H220JAS | CAP, CHIP(1608, 50V/22pF, COG)_SAMSUNG | 1 | EA |
|6 | C382 | CCUS1H223KCS | CAP, CHIP(1608, 50V/0.022uF, X7R)_SAMSUNG | 1 | EA |
|6 | C383 | CCUS1H223KCS | CAP, CHIP(1608, 50V/0.022uF, X7R)_SAMSUNG | 1 | EA |
|6 | C384 | CCUS1H220JAS | CAP, CHIP(1608, 50V/22pF, COG)_SAMSUNG | 1 | EA |
|6 | C385 | CCUS1H220JAS | CAP, CHIP(1608, 50V/22pF, COG)_SAMSUNG | 1 | EA |
|6 | C390 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C391 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C395 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C397 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C399 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C400 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C403 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C425 | CCUS1H332KCS | CAP, CHIP(1608, 50V/3300pF, X7R)_SAMSUNG | 1 | EA |
|6 | C426 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C430 | CCUS1H332KCS | CAP, CHIP(1608, 50V/3300pF, X7R)_SAMSUNG | 1 | EA |
|6 | C431 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C441 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C442 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C443 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C444 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |

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|-------|------|-----------------|---|---|----|
|6 | C445 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C446 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C447 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C448 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C455 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C456 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C457 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C460 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C461 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C462 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C463 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C470 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C471 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C472 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C473 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|6 | C490 | CCUS1H221JAS | CAP, CHIP(1608, 50V/220pF, COG)_SAMSUNG | 1 | EA |
|6 | C500 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | C600 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C601 | CCUS1H181JAS | CAP, CHIP(1608, 50V/180pF, COG)_SAMSUNG | 1 | EA |
|6 | C602 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C603 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C605 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C610 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C615 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C618 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|6 | C619 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|6 | C700 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | C924 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | D305 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D306 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D307 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D308 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D309 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D310 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D325 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D326 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D327 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D328 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D361 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D362 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D363 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D365 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D408 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D409 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D600 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D601 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D964 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D965 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D966 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D967 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D968 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D970 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D973 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D974 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | D981 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|6 | IC10 | CVINJW1112V | I.C , AUDIO SELECTOR(8-IN 4-OUT,SSOP-32P) | 1 | EA |
|6 | IC25 | HVINJM2068MDTE1 | I.C , OP AMP (JRC) | 1 | EA |
|6 | IC30 | HVINJM2068MDTE1 | I.C , OP AMP (JRC) | 1 | EA |
|6 | IC34 | CVINJW1194V | I.C , 2CH VOLUME | 1 | EA |
|6 | IC35 | HVINJM2068MDTE1 | I.C , OP AMP (JRC) | 1 | EA |
|6 | IC36 | HVTKTC812TB | EOL item T.R , CHIP(TS6) | 1 | EA |
|6 | IC40 | HVTKTC812TB | EOL item T.R , CHIP(TS6) | 1 | EA |

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|-------|------|--------------|--------------------------------------|---|----|
|6 | IC50 | HVTKTC812TB | EOL item T.R , CHIP(TS6) | 1 | EA |
|6 | IC60 | HVTKTC812TB | EOL item T.R , CHIP(TS6) | 1 | EA |
|6 | Q532 | HVTKRA107S | T.R , CHIP , SOT-23 | 1 | EA |
|6 | Q533 | HVTKRC107S | T.R , CHIP , SOT-23 | 1 | EA |
|6 | Q534 | HVTKRC107S | T.R , CHIP , SOT-23 | 1 | EA |
|6 | Q536 | HVTKRA107S | T.R , CHIP , SOT-23 | 1 | EA |
|6 | Q602 | CVTRT1P141C | T.R,RT1P141C(10K-10K) | 1 | EA |
|6 | Q603 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|6 | Q604 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|6 | Q915 | CVTMMMBT5551 | High Voltage NPN Transistors(SOT-23) | 1 | EA |
|6 | Q916 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|6 | Q917 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|6 | Q937 | CVTMMMBT5401 | High Voltage PNP Transistors(SOT-23) | 1 | EA |
|6 | Q940 | CVTMMMBT5401 | High Voltage PNP Transistors(SOT-23) | 1 | EA |
|6 | R251 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R252 | CRJ10DJ273T | RES, CHIP(1608/5%/27Kohm) | 1 | EA |
|6 | R253 | CRJ10DJ273T | RES, CHIP(1608/5%/27Kohm) | 1 | EA |
|6 | R254 | CRJ10DJ333T | RES, CHIP(1608/5%/33Kohm) | 1 | EA |
|6 | R255 | CRJ10DJ153T | RES, CHIP(1608/5%/15Kohm) | 1 | EA |
|6 | R256 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R257 | CRJ10DJ153T | RES, CHIP(1608/5%/15Kohm) | 1 | EA |
|6 | R258 | CRJ10DJ153T | RES, CHIP(1608/5%/15Kohm) | 1 | EA |
|6 | R301 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R302 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R303 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R304 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R305 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R306 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R307 | CRJ10DJ564T | RES, CHIP(1608/5%/560Kohm) | 1 | EA |
|6 | R308 | CRJ10DJ564T | RES, CHIP(1608/5%/560Kohm) | 1 | EA |
|6 | R309 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R310 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R311 | CRJ10DJ681T | RES, CHIP(1608/5%/680ohm) | 1 | EA |
|6 | R312 | CRJ10DJ681T | RES, CHIP(1608/5%/680ohm) | 1 | EA |
|6 | R313 | CRJ10DJ471T | RES, CHIP(1608/5%/470ohm) | 1 | EA |
|6 | R314 | CRJ10DJ471T | RES, CHIP(1608/5%/470ohm) | 1 | EA |
|6 | R315 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R316 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R317 | CRJ10DJ821T | RES, CHIP(1608/5%/820ohm) | 1 | EA |
|6 | R318 | CRJ10DJ821T | RES, CHIP(1608/5%/820ohm) | 1 | EA |
|6 | R320 | CRJ10DJ4R7T | RES, CHIP(1608/5%/4.7ohm) | 1 | EA |
|6 | R321 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R322 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R323 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R324 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R325 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R326 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R327 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R328 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R329 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R330 | CRJ10DJ393T | RES, CHIP(1608/5%/39Kohm) | 1 | EA |
|6 | R331 | CRJ10DJ393T | RES, CHIP(1608/5%/39Kohm) | 1 | EA |
|6 | R332 | CRJ10DJ271T | RES, CHIP(1608/5%/270ohm) | 1 | EA |
|6 | R333 | CRJ10DJ271T | RES, CHIP(1608/5%/270ohm) | 1 | EA |
|6 | R334 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R335 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R344 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R346 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R347 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R348 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R349 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R350 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |

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|-------|------|-------------|----------------------------|---|----|
|6 | R351 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R352 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R353 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R354 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R355 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R356 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R357 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R358 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R359 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R360 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R363 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R369 | CRJ10DJ392T | RES, CHIP(1608/5%/3.9Kohm) | 1 | EA |
|6 | R370 | CRJ10DJ392T | RES, CHIP(1608/5%/3.9Kohm) | 1 | EA |
|6 | R371 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R372 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R373 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R374 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R375 | CRJ10DJ4R7T | RES, CHIP(1608/5%/4.7ohm) | 1 | EA |
|6 | R377 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R378 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R379 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R380 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R381 | CRJ10DJ4R7T | RES, CHIP(1608/5%/4.7ohm) | 1 | EA |
|6 | R382 | CRJ10DJ561T | RES, CHIP(1608/5%/560ohm) | 1 | EA |
|6 | R383 | CRJ10DJ561T | RES, CHIP(1608/5%/560ohm) | 1 | EA |
|6 | R387 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R388 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R451 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R452 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R455 | CRJ10DJ1ROT | RES, CHIP(1608/5%/1ohm) | 1 | EA |
|6 | R456 | CRJ10DJ1ROT | RES, CHIP(1608/5%/1ohm) | 1 | EA |
|6 | R457 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R459 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R460 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R467 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R468 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R469 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R470 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R471 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R472 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R473 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R474 | CRJ10DJ271T | RES, CHIP(1608/5%/270ohm) | 1 | EA |
|6 | R475 | CRJ10DJ271T | RES, CHIP(1608/5%/270ohm) | 1 | EA |
|6 | R476 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R477 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R478 | CRJ10DJ392T | RES, CHIP(1608/5%/3.9Kohm) | 1 | EA |
|6 | R479 | CRJ10DJ392T | RES, CHIP(1608/5%/3.9Kohm) | 1 | EA |
|6 | R484 | CRJ10DJ561T | RES, CHIP(1608/5%/560ohm) | 1 | EA |
|6 | R485 | CRJ10DJ561T | RES, CHIP(1608/5%/560ohm) | 1 | EA |
|6 | R486 | CRJ10DJ392T | RES, CHIP(1608/5%/3.9Kohm) | 1 | EA |
|6 | R487 | CRJ10DJ392T | RES, CHIP(1608/5%/3.9Kohm) | 1 | EA |
|6 | R488 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R500 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R550 | CRJ10DJ470T | RES, CHIP(1608/5%/47ohm) | 1 | EA |
|6 | R566 | CRJ14CJ473T | RES, CHIP(3216/5%/47Kohm) | 1 | EA |
|6 | R567 | CRJ14CJ473T | RES, CHIP(3216/5%/47Kohm) | 1 | EA |
|6 | R568 | CRJ14CJ473T | RES, CHIP(3216/5%/47Kohm) | 1 | EA |
|6 | R569 | CRJ14CJ473T | RES, CHIP(3216/5%/47Kohm) | 1 | EA |
|6 | R570 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R580 | CRJ10DJ470T | RES, CHIP(1608/5%/47ohm) | 1 | EA |
|6 | R583 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R600 | CRJ10DJ750T | RES, CHIP(1608/5%/75ohm) | 1 | EA |

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|-------|------|--------------|------------------------------|---|----|
|6 | R601 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R602 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R610 | CRJ10DJ1R0T | RES, CHIP(1608/5%/1ohm) | 1 | EA |
|6 | R611 | CRJ10DJ1R0T | RES, CHIP(1608/5%/1ohm) | 1 | EA |
|6 | R613 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R614 | CRJ10DJ4R7T | RES, CHIP(1608/5%/4.7ohm) | 1 | EA |
|6 | R615 | CRJ10DJ4R7T | RES, CHIP(1608/5%/4.7ohm) | 1 | EA |
|6 | R616 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R617 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|6 | R618 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|6 | R619 | CRJ10DJ470T | RES, CHIP(1608/5%/47ohm) | 1 | EA |
|6 | R620 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|6 | R621 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|6 | R630 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R631 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R632 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R633 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R634 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R635 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R636 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R637 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R638 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R639 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|6 | R640 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R641 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R644 | CRJ10DJ2R2T | RES, CHIP(1608/5%/2.0ohm) | 1 | EA |
|6 | R645 | CRJ10DJ111T | RES, CHIP(1608/5%/110ohm) | 1 | EA |
|6 | R646 | CRJ10DJ111T | RES, CHIP(1608/5%/110ohm) | 1 | EA |
|6 | R647 | CRJ10DJ111T | RES, CHIP(1608/5%/110ohm) | 1 | EA |
|6 | R657 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|6 | R659 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R660 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|6 | R746 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R747 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R933 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|6 | R952 | CRJ10DJ223T | RES, CHIP(1608/5%/22Kohm) | 1 | EA |
|6 | R953 | CRJ10DJ223T | RES, CHIP(1608/5%/22Kohm) | 1 | EA |
|6 | R958 | CRJ10DJ563T | RES, CHIP(1608/5%/56Kohm) | 1 | EA |
|6 | R959 | CRJ10DJ563T | RES, CHIP(1608/5%/56Kohm) | 1 | EA |
|5 | C254 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C257 | CCME2A224JXT | CAP, METAL-FILM(100V/0.22uF) | 1 | EA |
|5 | C258 | HCQI1H473JZT | CAP, MYLAR(50V/0.047uF/J) | 1 | EA |
|5 | C259 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C303 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C304 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C307 | CCEA1EH470T | CAP, ELECT(25V/47uF) | 1 | EA |
|5 | C308 | CCEA1EH470T | CAP, ELECT(25V/47uF) | 1 | EA |
|5 | C309 | HCQI1H102JZT | CAP, MYLAR(50V/1000pF/J) | 1 | EA |
|5 | C310 | HCQI1H102JZT | CAP, MYLAR(50V/1000pF/J) | 1 | EA |
|5 | C311 | CCEA1CH101T | CAP, ELECT(16V/100uF) | 1 | EA |
|5 | C312 | CCEA1CH101T | CAP, ELECT(16V/100uF) | 1 | EA |
|5 | C313 | HCQI1H562JZT | CAP, MYLAR(50V/5600pF/J) | 1 | EA |
|5 | C314 | HCQI1H562JZT | CAP, MYLAR(50V/5600pF/J) | 1 | EA |
|5 | C315 | HCQI1H152JZT | CAP, MYLAR(50V/1500pF/J) | 1 | EA |
|5 | C316 | HCQI1H152JZT | CAP, MYLAR(50V/1500pF/J) | 1 | EA |
|5 | C317 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C318 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C319 | HCQI1H183JZT | CAP, MYLAR(50V/0.018pF/J) | 1 | EA |
|5 | C320 | HCQI1H183JZT | CAP, MYLAR(50V/0.018pF/J) | 1 | EA |
|5 | C321 | CCEA1CH101TC | CAP, ELECT(16V/100uF) | 1 | EA |
|5 | C331 | HCQI1H562JZT | CAP, MYLAR(50V/5600pF/J) | 1 | EA |
|5 | C332 | HCQI1H562JZT | CAP, MYLAR(50V/5600pF/J) | 1 | EA |

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|-------|-------|---------------|---------------------------------------|---|----|
|5 | C333 | HCQI1H562JZT | CAP, MYLAR(50V/5600pF/J) | 1 | EA |
|5 | C334 | HCQI1H562JZT | CAP, MYLAR(50V/5600pF/J) | 1 | EA |
|5 | C335 | HCQI1H473JZT | CAP, MYLAR(50V/0.047uF/J) | 1 | EA |
|5 | C336 | HCQI1H473JZT | CAP, MYLAR(50V/0.047uF/J) | 1 | EA |
|5 | C352 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C353 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C354 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C355 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C378 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C379 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C394 | CCEA1CH101T | CAP, ELECT(16V/100uF) | 1 | EA |
|5 | C396 | CCEA1CH101T | CAP, ELECT(16V/100uF) | 1 | EA |
|5 | C398 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C401 | CCEA1HROB470T | CAP , ELEC(ELNA ROB SERIES, 47uF/50V) | 1 | EA |
|5 | C402 | CCKT1H331KB | CAP, CERAMIC(50V/330pF/K) | 1 | EA |
|5 | C404 | CCKT1H271KB | CAP, CERAMIC(50V/270pF/K) | 1 | EA |
|5 | C409 | CCCT1H180JC | CAP, CERAMIC(50V/18pF/J) | 1 | EA |
|5 | C410 | CCKT1H181KB | CAP, CERAMIC(50V/180pF/K) | 1 | EA |
|5 | C411 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C412 | CCBS1H103ZFT | CAP , CERAMIC | 1 | EA |
|5 | C413 | CCEA2AH100T | CAP, ELECT(100V/10uF) | 1 | EA |
|5 | C421 | CCEA1EH101T | CAP, ELECT(25V/100uF) | 1 | EA |
|5 | C422 | CCEA1HH470T | CAP, ELECT(50V/47uF) | 1 | EA |
|5 | C427 | CCEA1HH4R7T | CAP, ELECT(50V/4.7uF) | 1 | EA |
|5 | C428 | CCEA1HH470T | CAP, ELECT(50V/47uF) | 1 | EA |
|5 | C432 | CCEA1HH4R7T | CAP, ELECT(50V/4.7uF) | 1 | EA |
|5 | C440 | HCQI1H473JZT | CAP, MYLAR(50V/0.047uF/J) | 1 | EA |
|5 | C449 | CCEA1EH101T | CAP, ELECT(25V/100uF) | 1 | EA |
|5 | C450 | CCEA1EH101T | CAP, ELECT(25V/100uF) | 1 | EA |
|5 | C451 | CCEA1HH470T | CAP, ELECT(50V/47uF) | 1 | EA |
|5 | C452 | CCEA1HH470T | CAP, ELECT(50V/47uF) | 1 | EA |
|5 | C453 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C454 | CCEA1EH101T | CAP, ELECT(25V/100uF) | 1 | EA |
|5 | C501 | CCEA1HROB470T | CAP , ELEC(ELNA ROB SERIES, 47uF/50V) | 1 | EA |
|5 | C502 | CCKT1H331KB | CAP, CERAMIC(50V/330pF/K) | 1 | EA |
|5 | C503 | CCKT1H271KB | CAP, CERAMIC(50V/270pF/K) | 1 | EA |
|5 | C507 | CCCT1H180JC | CAP, CERAMIC(50V/18pF/J) | 1 | EA |
|5 | C508 | CCKT1H181KB | CAP, CERAMIC(50V/180pF/K) | 1 | EA |
|5 | C509 | CCEA1HH100T | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C510 | CCEA2AH100T | CAP, ELECT(100V/10uF) | 1 | EA |
|5 | C511 | CCBS1H103ZFT | CAP , CERAMIC | 1 | EA |
|5 | C516 | CCEA1CH220TC | CAP, ELECT(16V/22uF) | 1 | EA |
|5 | C520 | HCQI1H473JZT | CAP, MYLAR(50V/0.047uF/J) | 1 | EA |
|5 | C567 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C568 | CCEA1HH100TC | CAP, ELECT(50V/10uF) | 1 | EA |
|5 | C604 | CCEA1EH101T | CAP, ELECT(25V/100uF) | 1 | EA |
|5 | C917 | CCEA1HH470TC | CAP , ELECT (50V/47uF) | 1 | EA |
|5 | C931 | HCQI1H473JZT | CAP, MYLAR(50V/0.047uF/J) | 1 | EA |
|5 | C932 | HCQI1H473JZT | CAP, MYLAR(50V/0.047uF/J) | 1 | EA |
|5 | C936 | CCEA1EH221T | CAP, ELECT(25V/220uF) | 1 | EA |
|5 | C950 | CCEA1AH471TC | CAP, ELECT(10V/470uF) | 1 | EA |
|5 | D402 | CVD1SS133MT | DIODE , SWITCHING | 1 | EA |
|5 | D403 | CVD1SS133MT | DIODE , SWITCHING | 1 | EA |
|5 | D405 | CVD1SS133MT | DIODE , SWITCHING | 1 | EA |
|5 | D406 | CVD1SS133MT | DIODE , SWITCHING | 1 | EA |
|5 | D502 | CVD1SS133MT | DIODE , SWITCHING | 1 | EA |
|5 | D503 | CVD1SS133MT | DIODE , SWITCHING | 1 | EA |
|5 | D505 | CVD1SS133MT | DIODE , SWITCHING | 1 | EA |
|5 | D506 | CVD1SS133MT | DIODE , SWITCHING | 1 | EA |
|5 | ET901 | CJT1A026 | PLATE , EARTH(TRONIC ELECTRONICS) | 1 | EA |
|5 | ET902 | CJT1A026 | PLATE , EARTH(TRONIC ELECTRONICS) | 1 | EA |
|5 | ET903 | CJT1A026 | PLATE , EARTH(TRONIC ELECTRONICS) | 1 | EA |

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|-------|-------|---------------|---|---|----|
|5 | ET904 | CJT1A026 | PLATE , EARTH(TRONIC ELECTRONICS) | 1 | EA |
|5 | Q400 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q408 | HVTKTA1024YT | T.R | 1 | EA |
|5 | Q409 | HVTKTC3206YAT | T.R | 1 | EA |
|5 | Q410 | HVTKTA1024YT | T.R | 1 | EA |
|5 | Q411 | HVTKTC3206YAT | T.R | 1 | EA |
|5 | Q412 | CVTKSA992FTA | PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q413 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q414 | CVTKSA992FTA | PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q415 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q416 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q417 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q500 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q508 | HVTKTA1024YT | T.R | 1 | EA |
|5 | Q509 | HVTKTC3206YAT | T.R | 1 | EA |
|5 | Q510 | HVTKTA1024YT | T.R | 1 | EA |
|5 | Q511 | HVTKTC3206YAT | T.R | 1 | EA |
|5 | Q512 | CVTKSA992FTA | PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q513 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q514 | CVTKSA992FTA | PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q515 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q516 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q517 | CVTKSC1845FTA | NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD | 1 | EA |
|5 | Q601 | HVTKTA1266YT | T.R | 1 | EA |
|5 | Q911 | HVTKTA1271YT | T.R | 1 | EA |
|5 | Q912 | HVTKTA1271YT | T.R | 1 | EA |
|5 | Q913 | HVTKTA1271YT | T.R | 1 | EA |
|5 | R401 | CRG1SANJ100RT | RES, M-OXIDE FILM(1W/10ohm) | 1 | EA |
|5 | R402 | CRD20TJ2R2T | RES, CARBON(1/5W,2.2ohm,J) | 1 | EA |
|5 | R403 | CRD20TJ2R2T | RES, CARBON(1/5W,2.2ohm,J) | 1 | EA |
|5 | R408 | CRD25FJ100T | RES , CARBON | 1 | EA |
|5 | R409 | CRD25FJ100T | RES , CARBON | 1 | EA |
|5 | R410 | CRD20TJ221T | RES, CARBON(1/5W,220ohm,J) | 1 | EA |
|5 | R411 | CRD20TJ221T | RES, CARBON(1/5W,220ohm,J) | 1 | EA |
|5 | R412 | CRD20TJ221T | RES, CARBON(1/5W,220ohm,J) | 1 | EA |
|5 | R413 | CRD20TJ221T | RES, CARBON(1/5W,220ohm,J) | 1 | EA |
|5 | R414 | CRD20TJ153T | RES, CARBON(1/5W,15Kohm,J) | 1 | EA |
|5 | R415 | CRD20TJ153T | RES, CARBON(1/5W,15Kohm,J) | 1 | EA |
|5 | R416 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R417 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R418 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R419 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R420 | CRD20TJ162T | RES, CARBON(1/5W,1.6Kohm,J) | 1 | EA |
|5 | R421 | CRD20TJ162T | RES, CARBON(1/5W,1.6Kohm,J) | 1 | EA |
|5 | R422 | CRD20TJ471T | RES, CARBON(1/5W,470ohm,J) | 1 | EA |
|5 | R423 | CRD20TJ333T | RES, CARBON(1/5W,33Kohm,J) | 1 | EA |
|5 | R424 | CRD20TJ152T | RES, CARBON(1/5W,1.5Kohm,J) | 1 | EA |
|5 | R425 | CRD20TJ101T | RES, CARBON(1/5W,100ohm,J) | 1 | EA |
|5 | R426 | CRD20TJ101T | RES, CARBON(1/5W,100ohm,J) | 1 | EA |
|5 | R428 | CRD20TJ473T | RES, CARBON(1/5W,47Kohm,J) | 1 | EA |
|5 | R429 | CRD20TJ271T | RES, CARBON(1/5W,270ohm,J) | 1 | EA |
|5 | R430 | CRD20TJ333T | RES, CARBON(1/5W,33Kohm,J) | 1 | EA |
|5 | R431 | CRD20TJ100T | RES, CARBON(1/5W,10ohm,J) | 1 | EA |
|5 | R432 | CRD20TJ331T | RES, CARBON(1/5W,330ohm,J) | 1 | EA |
|5 | R433 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R437 | CRD20TJ101T | RES, CARBON(1/5W,100ohm,J) | 1 | EA |
|5 | R438 | CRD25FJ100T | RES , CARBON | 1 | EA |
|5 | R439 | CRD20TJ101T | RES, CARBON(1/5W,100ohm,J) | 1 | EA |
|5 | R442 | CRD20TJ242T | RES, CARBON(1/5W,2.4Kohm,J) | 1 | EA |
|5 | R445 | CRD20TJ751T | RES, CARBON(1/5W,750ohm,J) | 1 | EA |
|5 | R446 | CRD20TJ223T | RES, CARBON(1/5W,22Kohm,J) | 1 | EA |
|5 | R447 | CRD20TJ274T | RES, CARBON(1/5W,270Kohm,J) | 1 | EA |

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|-------|------|---------------|-------------------------------|---|----|
|5 | R448 | CRD20TJ752T | RES, CARBON(1/5W,7.5Kohm,J) | 1 | EA |
|5 | R449 | CRD20TJ102T | RES, CARBON(1/5W,1Kohm,J) | 1 | EA |
|5 | R450 | CRD20TJ472T | RES, CARBON(1/5W,4.7Kohm,J) | 1 | EA |
|5 | R453 | CRD25TJ470T | RES, CARBON(1/4W,47ohm,J) | 1 | EA |
|5 | R454 | CRD25TJ470T | RES, CARBON(1/4W,47ohm,J) | 1 | EA |
|5 | R461 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R495 | CRG2SANJR47RT | RES, M-OXIDE FILM(2W/0.47ohm) | 1 | EA |
|5 | R496 | CRG2SANJR47RT | RES, M-OXIDE FILM(2W/0.47ohm) | 1 | EA |
|5 | R497 | CRG2SANJR47RT | RES, M-OXIDE FILM(2W/0.47ohm) | 1 | EA |
|5 | R498 | CRG2SANJR47RT | RES, M-OXIDE FILM(2W/0.47ohm) | 1 | EA |
|5 | R499 | CRD25FJ100T | RES , CARBON | 1 | EA |
|5 | R501 | CRG1SANJ100RT | RES, M-OXIDE FILM(1W/10ohm) | 1 | EA |
|5 | R502 | CRD20TJ2R2T | RES, CARBON(1/5W,2.2ohm,J) | 1 | EA |
|5 | R503 | CRD20TJ2R2T | RES, CARBON(1/5W,2.2ohm,J) | 1 | EA |
|5 | R504 | CRD25FJ100T | RES , CARBON | 1 | EA |
|5 | R505 | CRD25FJ100T | RES , CARBON | 1 | EA |
|5 | R506 | CRD20TJ101T | RES, CARBON(1/5W,100ohm,J) | 1 | EA |
|5 | R507 | CRD20TJ101T | RES, CARBON(1/5W,100ohm,J) | 1 | EA |
|5 | R508 | CRD25FJ100T | RES , CARBON | 1 | EA |
|5 | R509 | CRD25FJ100T | RES , CARBON | 1 | EA |
|5 | R510 | CRD20TJ221T | RES, CARBON(1/5W,220ohm,J) | 1 | EA |
|5 | R511 | CRD20TJ221T | RES, CARBON(1/5W,220ohm,J) | 1 | EA |
|5 | R512 | CRD20TJ221T | RES, CARBON(1/5W,220ohm,J) | 1 | EA |
|5 | R513 | CRD20TJ221T | RES, CARBON(1/5W,220ohm,J) | 1 | EA |
|5 | R514 | CRD20TJ153T | RES, CARBON(1/5W,15Kohm,J) | 1 | EA |
|5 | R515 | CRD20TJ153T | RES, CARBON(1/5W,15Kohm,J) | 1 | EA |
|5 | R516 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R517 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R518 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R519 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R520 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R521 | CRD20TJ561T | RES, CARBON(1/5W,560ohm,J) | 1 | EA |
|5 | R522 | CRD20TJ162T | RES, CARBON(1/5W,1.6Kohm,J) | 1 | EA |
|5 | R523 | CRD20TJ162T | RES, CARBON(1/5W,1.6Kohm,J) | 1 | EA |
|5 | R524 | CRD20TJ471T | RES, CARBON(1/5W,47ohm,J) | 1 | EA |
|5 | R525 | CRD20TJ333T | RES, CARBON(1/5W,33Kohm,J) | 1 | EA |
|5 | R526 | CRD20TJ152T | RES, CARBON(1/5W,1.5Kohm,J) | 1 | EA |
|5 | R527 | CRD20TJ101T | RES, CARBON(1/5W,100ohm,J) | 1 | EA |
|5 | R528 | CRD20TJ101T | RES, CARBON(1/5W,100ohm,J) | 1 | EA |
|5 | R529 | CRD20TJ271T | RES, CARBON(1/5W,270ohm,J) | 1 | EA |
|5 | R530 | CRD20TJ473T | RES, CARBON(1/5W,47Kohm,J) | 1 | EA |
|5 | R532 | CRD20TJ333T | RES, CARBON(1/5W,33Kohm,J) | 1 | EA |
|5 | R533 | CRD20TJ331T | RES, CARBON(1/5W,330ohm,J) | 1 | EA |
|5 | R534 | CRD20TJ100T | RES, CARBON(1/5W,10ohm,J) | 1 | EA |
|5 | R536 | CRD20TJ242T | RES, CARBON(1/5W,2.4Kohm,J) | 1 | EA |
|5 | R538 | CRD20TJ751T | RES, CARBON(1/5W,750ohm,J) | 1 | EA |
|5 | R540 | CRD20TJ223T | RES, CARBON(1/5W,22Kohm,J) | 1 | EA |
|5 | R541 | CRD20TJ274T | RES, CARBON(1/5W,270Kohm,J) | 1 | EA |
|5 | R542 | CRD20TJ752T | RES, CARBON(1/5W,7.5Kohm,J) | 1 | EA |
|5 | R543 | CRD20TJ102T | RES, CARBON(1/5W,1Kohm,J) | 1 | EA |
|5 | R545 | CRD20TJ472T | RES, CARBON(1/5W,4.7Kohm,J) | 1 | EA |
|5 | R546 | CRD25TJ470T | RES, CARBON(1/4W,47ohm,J) | 1 | EA |
|5 | R547 | CRD25TJ470T | RES, CARBON(1/4W,47ohm,J) | 1 | EA |
|5 | R548 | CRD25TJ820T | RES, CARBON(1/4W,82ohm,J) | 1 | EA |
|5 | R549 | CRD25TJ820T | RES, CARBON(1/4W,82ohm,J) | 1 | EA |
|5 | R557 | CRD20TJ1R0T | RES, CARBON(1/5W,1ohm,J) | 1 | EA |
|5 | R558 | CRD20TJ102T | RES, CARBON(1/5W,1Kohm,J) | 1 | EA |
|5 | R559 | CRD20TJ564T | RES, CARBON(1/5W,560Kohm,J) | 1 | EA |
|5 | R560 | CRD20TJ753T | RES, CARBON(1/5W,75Kohm,J) | 1 | EA |
|5 | R561 | CRD20TJ333T | RES, CARBON(1/5W,33Kohm,J) | 1 | EA |
|5 | R562 | CRD20TJ333T | RES, CARBON(1/5W,33Kohm,J) | 1 | EA |
|5 | R563 | CRD20TJ333T | RES, CARBON(1/5W,33Kohm,J) | 1 | EA |

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|-------|-------|-----------------|--|----|----|
|5 | R564 | CRD20TJ333T | RES, CARBON(1/5W,33Kohm,J) | 1 | EA |
|5 | R565 | CRD20TJ103T | RES, CARBON(1/5W,10Kohm,J) | 1 | EA |
|5 | R571 | CRG2SANJR47RT | RES, M-OXIDE FILM(2W/0.47ohm) | 1 | EA |
|5 | R572 | CRG2SANJR47RT | RES, M-OXIDE FILM(2W/0.47ohm) | 1 | EA |
|5 | R573 | CRG2SANJR47RT | RES, M-OXIDE FILM(2W/0.47ohm) | 1 | EA |
|5 | R574 | CRG2SANJR47RT | RES, M-OXIDE FILM(2W/0.47ohm) | 1 | EA |
|5 | R921 | CRG1SANJ220RT | RES, M-OXIDE FILM(1W/22ohm) | 1 | EA |
|5 | R922 | CRG1SANJ100RT | RES, M-OXIDE FILM(1W/10ohm) | 1 | EA |
|5 | R923 | CRG1SANJ1R0RT | RES, M-OXIDE FILM(1W/1ohm) | 1 | EA |
|5 | R924 | CRD20TJ473T | RES, CARBON(1/5W,47Kohm,J) | 1 | EA |
|5 | R925 | CRD20TJ473T | RES, CARBON(1/5W,47Kohm,J) | 1 | EA |
|5 | R926 | CRD20TJ473T | RES, CARBON(1/5W,47Kohm,J) | 1 | EA |
|5 | R928 | CRD20TJ222T | RES, CARBON(1/5W,2.2Kohm,J) | 1 | EA |
|5 | R929 | CRD20TJ222T | RES, CARBON(1/5W,2.2Kohm,J) | 1 | EA |
|5 | R930 | CRD20TJ222T | RES, CARBON(1/5W,2.2Kohm,J) | 1 | EA |
|5 | VR203 | CVN12A221B03T | RES , SEMI FIXED (220 OHM) | 1 | EA |
|5 | VR204 | CVN12A221B03T | RES , SEMI FIXED (220 OHM) | 1 | EA |
| ...4 | | CMYHK3770 | HEAT SINK ASS'Y | 1 | EA |
|5 | | CFNRDM6025S | MOTOR , FAN (60X60X25) 12V, 0.1A | 1 | EA |
|5 | | CHD1A012R | SCREW , SPECIAL | 10 | EA |
|5 | | CHD1A036R | SCREW , SPECIAL | 2 | EA |
|5 | | CMD1A802 | BRACKET,H/S PCB | 2 | EA |
|5 | | CMD1A810 | BRACKET , PCB | 2 | EA |
|5 | | CMY1A405 | HEAT SINK HK3770 | 1 | EA |
|5 | Q401 | HVTKTC3114A | T.R , BIAS | 1 | EA |
|5 | Q402 | HVT2SC3856 | T.R , POWER | 1 | EA |
|5 | Q403 | HVT2SA1492 | T.R , POWER | 1 | EA |
|5 | Q404 | HVT2SA1859A | T.R , DRIVER | 1 | EA |
|5 | Q405 | HVT2SC4883A | T.R , DRIVER | 1 | EA |
|5 | Q501 | HVTKTC3114A | T.R , BIAS | 1 | EA |
|5 | Q502 | HVT2SC3856 | T.R , POWER | 1 | EA |
|5 | Q503 | HVT2SA1492 | T.R , POWER | 1 | EA |
|5 | Q504 | HVT2SA1859A | T.R , DRIVER | 1 | EA |
|5 | Q505 | HVT2SC4883A | T.R , DRIVER | 1 | EA |
| ...4 | BK10 | CMD1A569-V1 | BRACKET , PCB | 1 | EA |
| ...4 | BK11 | CMD1A569-V1 | BRACKET , PCB | 1 | EA |
| ...4 | BK12 | CMD1A569-V1 | BRACKET , PCB | 1 | EA |
| ...4 | BN10 | CJP23GA115ZY | WAFER, FFC(23P-1.25mm, STRAIGHT) | 1 | EA |
| ...4 | BN20 | CWB1B009080HC | WIRE ASS'Y LOCKING (9P,2.0MM,80MM,UL1007#26) | 1 | EA |
| ...4 | BN30 | CWB1B00312077 | Wire Ass'y (120mm, 3P 2.00mm pitch) | 1 | EA |
| ...4 | BN50 | CWB1B013180LC | WIRE ASS'Y (13P,2.0MM,180MM,UL1007#26) | 1 | EA |
| ...4 | BN60 | CWB3FE0332UZ | WIRE ASS'Y (3P, 320mm) | 1 | EA |
| ...4 | CN20 | CJP09GI236ZW | LOCKING TYPE , STRAIGHT WAFER , 2MM | 1 | EA |
| ...4 | CN41 | CJP02GA01ZY | WAFER/STRAIGHT/2.5mm/2P | 1 | EA |
| ...4 | CN51 | CJP02GA01ZY | WAFER/STRAIGHT/2.5mm/2P | 1 | EA |
| ...4 | CN60 | CJP11GA115ZY | WAFER, FFC(11P-1.25mm, STRAIGHT) | 1 | EA |
| ...4 | CN93 | CJP02GA01ZY | WAFER/STRAIGHT/2.5mm/2P | 1 | EA |
| ...4 | C405 | CCEA1HH221E | CAP, ELECT(50V/220uF) | 1 | EA |
| ...4 | C407 | CCEA1JH331EC | CAP , ELECT(63V/330uF) | 1 | EA |
| ...4 | C408 | CCEA1JH331EC | CAP , ELECT(63V/330uF) | 1 | EA |
| ...4 | C419 | CCEA1AH222ES | CAP, ELECT(10V/2200uF),105'C,10X20L | 1 | EA |
| ...4 | C504 | CCEA1HH221E | CAP, ELECT(50V/220uF) | 1 | EA |
| ...4 | C505 | CCEA1JH331EC | CAP , ELECT(63V/330uF) | 1 | EA |
| ...4 | C506 | CCEA1JH331EC | CAP , ELECT(63V/330uF) | 1 | EA |
| ...4 | C915 | CCET63VLA0682NB | CAP,ELECT (ELNA,6800uF/63V,30X40) | 1 | EA |
| ...4 | C916 | CCET63VLA0682NB | CAP,ELECT (ELNA,6800uF/63V,30X40) | 1 | EA |
| ...4 | IC601 | BVIKP1010B | IC, PHOTO COUPLER (COSMO) | 1 | EA |
| ...4 | JK10 | CJJ4N034U | JACK, 2P(W/R),SEPA-GND, SILVER | 1 | EA |
| ...4 | JK20 | CJJ4R019W | TERMINAL , IN/OUT | 1 | EA |
| ...4 | JK30 | CJJ5Q006Z | TERMINAL , SPEAKER | 1 | EA |
| ...4 | JK40 | CJJ4R019W | TERMINAL , IN/OUT | 1 | EA |
| ...4 | JK50 | CJJ4M040Z | JACK , BOARD (SW) | 1 | EA |

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|-------|------|--------------------|--|---|----|
| ...4 | JK60 | CJJ4M044X | JACK , RCA (1P,RCA-115A-04) | 1 | EA |
| ...4 | JK61 | CJSJSR2124-00-BBBN | MODULE , OPTICAL(RX 25MHz) | 1 | EA |
| ...4 | JK62 | CJSJSR2124-00-BBBN | MODULE , OPTICAL(RX 25MHz) | 1 | EA |
| ...4 | JK63 | CJJ2D008Z | JACK, STEREO (BLK MOLD) | 1 | EA |
| ...4 | JK64 | CJJ2D008Z | JACK, STEREO (BLK MOLD) | 1 | EA |
| ...4 | JK65 | CJJ2D008Z | JACK, STEREO (BLK MOLD) | 1 | EA |
| ...4 | L202 | CLEYOR5KAK | COIL , SPEAKER(0.5uH) | 1 | EA |
| ...4 | L204 | CLEYOR5KAK | COIL , SPEAKER(0.5uH) | 1 | EA |
| ...4 | L301 | CLU9S004Z | COIL, TOROIDAL | 1 | EA |
| ...4 | L302 | CLU9S004Z | COIL, TOROIDAL | 1 | EA |
| ...4 | Q406 | HVTKTD2061Y | T.R , DRIVE | 1 | EA |
| ...4 | Q407 | HVTKTB1369Y | T.R , DRIVE | 1 | EA |
| ...4 | Q506 | HVTKTD2061Y | T.R , DRIVE | 1 | EA |
| ...4 | Q507 | HVTKTB1369Y | T.R , DRIVE | 1 | EA |
| ...4 | RY32 | CSL3A022ZU | RELAY,981-2A-12DS,DC12V,2C1P | 1 | EA |
| ...4 | RY33 | CSL3A022ZU | RELAY,981-2A-12DS,DC12V,2C1P | 1 | EA |
| ...4 | R555 | CRF5EKR10HS | RES , CEMENT (SMALL SIZE) | 1 | EA |
| ...4 | R556 | CRF5EKR10HS | RES , CEMENT (SMALL SIZE) | 1 | EA |
| ...4 | TUN1 | CNVMW104MV1R78I-1 | MODULE , TUNER (AM/FM WITH RDS, EUR) | 1 | EA |
| ..3 | | COP12610E | HK3770/230 SMPS PCB ASS'Y | 1 | EA |
|6 | C903 | CCUC1H471JAS | CAP, CHIP(2012, 50V/470pF, COG)_SAMSUNG | 1 | EA |
|6 | C904 | CCUC1H105KCS | CAP, CHIP(2012, 50V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|6 | C905 | CCUP3A102KCS | CAP, CHIP(3216, 1KV/1000pF, X7R)_SAMSUNG | 1 | EA |
|6 | C906 | CCUC1H222KCS | CAP, CHIP(2012, 50V/2200pF, X7R)_SAMSUNG | 1 | EA |
|6 | C907 | CCUC1H470JAS | CAP, CHIP(2012, 50V/47pF, COG)_SAMSUNG | 1 | EA |
|6 | C909 | CCUC1H821JAS | CAP, CHIP(2012, 50V/820pF, COG)_SAMSUNG | 1 | EA |
|6 | C910 | CCUP3A222KCS | CAP, CHIP(3216, 1KV/2200pF, X7R)_SAMSUNG | 1 | EA |
|6 | C912 | CCUP3A470JAS | CAP, CHIP(3216, 1KV/47pF, COG)_SAMSUNG | 1 | EA |
|6 | C913 | CCUC1E225KCS | CAP, CHIP(2012, 25V/2.2uF, X7R, X7S)_SAMSUNG | 1 | EA |
|6 | C914 | CCUC1H472KCS | CAP, CHIP(2012, 50V/4700pF, X7R)_SAMSUNG | 1 | EA |
|6 | C915 | CCUC1H105KCS | CAP, CHIP(2012, 50V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|6 | C917 | CCUC1H102KCS | CAP, CHIP(2012, 50V/1000pF, X7R)_SAMSUNG | 1 | EA |
|6 | C919 | CCUP3A470JAS | CAP, CHIP(3216, 1KV/47pF, COG)_SAMSUNG | 1 | EA |
|6 | C923 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C924 | CCUC1H222KCS | CAP, CHIP(2012, 50V/2200pF, X7R)_SAMSUNG | 1 | EA |
|6 | C925 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C926 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C927 | CCUC1H105KCS | CAP, CHIP(2012, 50V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|6 | C934 | CCUC1H105KCS | CAP, CHIP(2012, 50V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|6 | C945 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C956 | CCUP3A102KCS | CAP, CHIP(3216, 1KV/1000pF, X7R)_SAMSUNG | 1 | EA |
|6 | C957 | CCUP3A102KCS | CAP, CHIP(3216, 1KV/1000pF, X7R)_SAMSUNG | 1 | EA |
|6 | C958 | CCUC1H103KCS | CAP, CHIP(2012, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|6 | C959 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C960 | CCUC1H103KCS | CAP, CHIP(2012, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|6 | C961 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C962 | CCUC1H103KCS | CAP, CHIP(2012, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|6 | C963 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C964 | CCUC1H103KCS | CAP, CHIP(2012, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|6 | C967 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C968 | CCUC1H103KCS | CAP, CHIP(2012, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|6 | C969 | CCUC1H224KCS | CAP, CHIP(2012, 50V/0.22uF, X7R)_SAMSUNG | 1 | EA |
|6 | C971 | CCUC1H224KCS | CAP, CHIP(2012, 50V/0.22uF, X7R)_SAMSUNG | 1 | EA |
|6 | C973 | CCUC1H224KCS | CAP, CHIP(2012, 50V/0.22uF, X7R)_SAMSUNG | 1 | EA |
|6 | C975 | CCUC1H224KCS | CAP, CHIP(2012, 50V/0.22uF, X7R)_SAMSUNG | 1 | EA |
|6 | C977 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C978 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | C979 | CCUC1H104KCS | CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|6 | D901 | CVDS1M | DIODE, SURFACE MOUNT RECTIFIER(1000V/1A) | 1 | EA |
|6 | D902 | CVDS1M | DIODE, SURFACE MOUNT RECTIFIER(1000V/1A) | 1 | EA |
|6 | D903 | CVDUS1M | DIODE , ULTRA FAST RECTIFIER | 1 | EA |
|6 | D904 | CVDUS1M | DIODE , ULTRA FAST RECTIFIER | 1 | EA |

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|-------|------|------------------|--|---|----|
|6 | D906 | CVDUS1M | DIODE , ULTRA FAST RECTIFIER | 1 | EA |
|6 | D907 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D908 | CVDMM1Z24H | DIODE , ZENER(24V/0.5W, SOD-123) | 1 | EA |
|6 | D909 | CVDMM1Z20H | DIODE , ZENER(20V/0.5W, SOD-123) | 1 | EA |
|6 | D911 | CVDUS1M | DIODE , ULTRA FAST RECTIFIER | 1 | EA |
|6 | D912 | CVDMM1Z27H | DIODE , ZENER(27V/0.5W, SOD-123) | 1 | EA |
|6 | D913 | CVDS1M | DIODE, SURFACE MOUNT RECTIFIER(1000V/1A) | 1 | EA |
|6 | D914 | CVDMM1Z20H | DIODE , ZENER(20V/0.5W, SOD-123) | 1 | EA |
|6 | D916 | CVDMM1Z12H | DIODE , ZENER(12V/0.5W, SOD-123) | 1 | EA |
|6 | D917 | CVDMM1Z18H | DIODE , ZENER(18V/0.5W, SOD-123) | 1 | EA |
|6 | D918 | CVDMM1Z20H | DIODE , ZENER(20V/0.5W, SOD-123) | 1 | EA |
|6 | D920 | CVDFM107M | DIODE , RECTIFIER(FFM107-M, SOD-123FL) | 1 | EA |
|6 | D922 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D923 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D924 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D925 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D926 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D927 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D929 | CVDMM1Z12H | DIODE , ZENER(12V/0.5W, SOD-123) | 1 | EA |
|6 | D930 | CVDMM1Z27H | DIODE , ZENER(27V/0.5W, SOD-123) | 1 | EA |
|6 | D931 | CVDMM1Z22H | DIODE , ZENER(22V/0.5W, SOD-123) | 1 | EA |
|6 | D932 | CVDS1M | DIODE, SURFACE MOUNT RECTIFIER(1000V/1A) | 1 | EA |
|6 | D935 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D936 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D944 | CVDUS1M | DIODE , ULTRA FAST RECTIFIER | 1 | EA |
|6 | D950 | CVDMM1Z22H | DIODE , ZENER(22V/0.5W, SOD-123) | 1 | EA |
|6 | D951 | CVDMM1Z22H | DIODE , ZENER(22V/0.5W, SOD-123) | 1 | EA |
|6 | D953 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | D954 | CVDMM1Z22H | DIODE , ZENER(22V/0.5W, SOD-123) | 1 | EA |
|6 | D955 | CVD1N4448W | DIODE , FAST SWITCHING(0.5W, SOD-123) | 1 | EA |
|6 | IC92 | CVIOB2263MPA | I.C , PWM CONTROLLER (SOT23-6) | 1 | EA |
|6 | IC93 | CVIICE2QS02G | I.C , PWM CONTROLLER(PG-DSO-8) | 1 | EA |
|6 | IC94 | CVIKA431SAMF2 | I.C , SHUNT REGULATOR(SOT-23F) | 1 | EA |
|6 | IC95 | CVIKA431SAMF2 | I.C , SHUNT REGULATOR(SOT-23F) | 1 | EA |
|6 | IC96 | CVIKA431SAMF2 | I.C , SHUNT REGULATOR(SOT-23F) | 1 | EA |
|6 | L922 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|6 | L923 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|6 | PC90 | CVIEL357NB | I.C , PHOTO COUPLER (4P, SMD) | 1 | EA |
|6 | PC91 | CVIEL357NB | I.C , PHOTO COUPLER (4P, SMD) | 1 | EA |
|6 | PC92 | CVIEL357NB | I.C , PHOTO COUPLER (4P, SMD) | 1 | EA |
|6 | PC93 | CVIEL357NB | I.C , PHOTO COUPLER (4P, SMD) | 1 | EA |
|6 | PC94 | CVIEL357NB | I.C , PHOTO COUPLER (4P, SMD) | 1 | EA |
|6 | PC96 | CVIEL357NB | I.C , PHOTO COUPLER (4P, SMD) | 1 | EA |
|6 | PC99 | CVIEL357NB | I.C , PHOTO COUPLER (4P, SMD) | 1 | EA |
|6 | Q909 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|6 | Q915 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|6 | Q916 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|6 | Q917 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|6 | Q918 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|6 | Q921 | CVTKN2907AS | T.R , KN2907AS, PNP, SOT-23, KEC | 1 | EA |
|6 | Q926 | CVT2SC6046T1121W | T.R (NPN, SOT-23, ISAHAYA) | 1 | EA |
|6 | Q927 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|6 | Q928 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|6 | R766 | CRJ18AJ0R0T | RES, CHIP(2012/5%/0ohm) | 1 | EA |
|6 | R768 | CRJ18AF3002T | RES, CHIP(2012/1%/30Kohm) | 1 | EA |
|6 | R770 | CRJ18AJ470T | RES, CHIP(2012/5%/47ohm) | 1 | EA |
|6 | R771 | CRJ18AJ102T | RES, CHIP(2012/5%/1Kohm) | 1 | EA |
|6 | R772 | CRJ18AJ102T | RES, CHIP(2012/5%/1Kohm) | 1 | EA |
|6 | R773 | CRJ18AJ182T | RES, CHIP(2012/5%/1.8Kohm) | 1 | EA |
|6 | R774 | CRJ18AJ181T | RES, CHIP(2012/5%/180ohm) | 1 | EA |
|6 | R775 | CRJ14CJ0R0T | RES, CHIP(3216/5%/0ohm) | 1 | EA |
|6 | R776 | CRJ18AJ0R0T | RES, CHIP(2012/5%/0ohm) | 1 | EA |

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|-------|------|--------------|-----------------------------|---|----|
|6 | R777 | CRJ18AJ0ROT | RES, CHIP(2012/5%/0ohm) | 1 | EA |
|6 | R779 | CRJ18AJ0ROT | RES, CHIP(2012/5%/0ohm) | 1 | EA |
|6 | R881 | CRJ18AJ101T | RES, CHIP(2012/5%/100ohm) | 1 | EA |
|6 | R891 | CRJ18AJ102T | RES, CHIP(2012/5%/1Kohm) | 1 | EA |
|6 | R892 | CRJ18AJ102T | RES, CHIP(2012/5%/1Kohm) | 1 | EA |
|6 | R893 | CRJ18AJ470T | RES, CHIP(2012/5%/47ohm) | 1 | EA |
|6 | R894 | CRJ18AJ470T | RES, CHIP(2012/5%/47ohm) | 1 | EA |
|6 | R896 | CRJ18AJ471T | RES, CHIP(2012/5%/470ohm) | 1 | EA |
|6 | R897 | CRJ18AJ153T | RES, CHIP(2012/5%/15Kohm) | 1 | EA |
|6 | R898 | CRJ18AJ220T | RES, CHIP(2012/5%/22ohm) | 1 | EA |
|6 | R901 | CRJ18AJ392T | RES, CHIP(2012/5%/3.9Kohm) | 1 | EA |
|6 | R902 | CRJ18AJ153T | RES, CHIP(2012/5%/15Kohm) | 1 | EA |
|6 | R904 | CRJ14CJ0ROT | RES, CHIP(3216/5%/0ohm) | 1 | EA |
|6 | R906 | CRJ18AJ390T | RES, CHIP(2012/5%/39ohm) | 1 | EA |
|6 | R907 | CRJ01HJ683T | RES, CHIP(6432/5%/68Kohm) | 1 | EA |
|6 | R909 | CRJ18AJ104T | RES, CHIP(2012/5%/100Kohm) | 1 | EA |
|6 | R910 | CRJ18AJ330T | RES, CHIP(2012/5%/33ohm) | 1 | EA |
|6 | R911 | CRJ18AJ0ROT | RES, CHIP(2012/5%/0ohm) | 1 | EA |
|6 | R912 | CRJ18AJ112T | RES, CHIP(2012/5%/1.1Kohm) | 1 | EA |
|6 | R915 | CRJ18AJ683T | RES, CHIP(2012/5%/68Kohm) | 1 | EA |
|6 | R916 | CRJ18AJ153T | RES, CHIP(2012/5%/15Kohm) | 1 | EA |
|6 | R918 | CRJ18AJ203T | RES, CHIP(2012/5%/20Kohm) | 1 | EA |
|6 | R919 | CRJ18AJ103T | RES, CHIP(2012/5%/10Kohm) | 1 | EA |
|6 | R921 | CRJ14CF5602T | RES, CHIP(3216/1%/56Kohm) | 1 | EA |
|6 | R922 | CRJ18AJ100T | RES, CHIP(2012/5%/10ohm) | 1 | EA |
|6 | R923 | CRJ18AJ102T | RES, CHIP(2012/5%/1Kohm) | 1 | EA |
|6 | R924 | CRJ14CJ125T | RES, CHIP(3216/5%/1.2Mohm) | 1 | EA |
|6 | R925 | CRJ14CJ125T | RES, CHIP(3216/5%/1.2Mohm) | 1 | EA |
|6 | R926 | CRJ14CJ125T | RES, CHIP(3216/5%/1.2Mohm) | 1 | EA |
|6 | R927 | CRJ14CJ125T | RES, CHIP(3216/5%/1.2Mohm) | 1 | EA |
|6 | R928 | CRJ18AJ100T | RES, CHIP(2012/5%/10ohm) | 1 | EA |
|6 | R929 | CRJ14CJ125T | RES, CHIP(3216/5%/1.2Mohm) | 1 | EA |
|6 | R930 | CRJ18AF3742T | RES, CHIP(2012/1%/37.4Kohm) | 1 | EA |
|6 | R931 | CRJ18AJ824T | RES, CHIP(2012/5%/820Kohm) | 1 | EA |
|6 | R932 | CRJ14CJ4R77T | RES, CHIP(3216/5%/4.7ohm) | 1 | EA |
|6 | R933 | CRJ18AJ181T | RES, CHIP(2012/5%/180ohm) | 1 | EA |
|6 | R934 | CRJ18AJ561T | RES, CHIP(2012/5%/560ohm) | 1 | EA |
|6 | R935 | CRJ18AJ0ROT | RES, CHIP(2012/5%/0ohm) | 1 | EA |
|6 | R936 | CRJ18AJ102T | RES, CHIP(2012/5%/1Kohm) | 1 | EA |
|6 | R937 | CRJ18AJ102T | RES, CHIP(2012/5%/1Kohm) | 1 | EA |
|6 | R938 | CRJ18AJ561T | RES, CHIP(2012/5%/560ohm) | 1 | EA |
|6 | R939 | CRJ18AJ470T | RES, CHIP(2012/5%/47ohm) | 1 | EA |
|6 | R940 | CRJ18AJ153T | RES, CHIP(2012/5%/15Kohm) | 1 | EA |
|6 | R941 | CRJ18AJ622T | RES, CHIP(2012/5%/6.2Kohm) | 1 | EA |
|6 | R942 | CRJ18AJ222T | RES, CHIP(2012/5%/2.2Kohm) | 1 | EA |
|6 | R943 | CRJ18AJ622T | RES, CHIP(2012/5%/6.2Kohm) | 1 | EA |
|6 | R944 | CRJ18AJ472T | RES, CHIP(2012/5%/4.7Kohm) | 1 | EA |
|6 | R945 | CRJ18AJ561T | RES, CHIP(2012/5%/560ohm) | 1 | EA |
|6 | R946 | CRJ18AF1002T | RES, CHIP(2012/1%/10Kohm) | 1 | EA |
|6 | R947 | CRJ18AF1002T | RES, CHIP(2012/1%/10Kohm) | 1 | EA |
|6 | R948 | CRJ18AJ0ROT | RES, CHIP(2012/5%/0ohm) | 1 | EA |
|6 | R950 | CRJ18AJ224T | RES, CHIP(2012/5%/220Kohm) | 1 | EA |
|6 | R952 | CRJ01HJ101T | RES, CHIP(6432/5%/100ohm) | 1 | EA |
|6 | R953 | CRJ18AF1132T | RES, CHIP(2012/1%/11.3Kohm) | 1 | EA |
|6 | R954 | CRJ18AJ472T | RES, CHIP(2012/5%/4.7Kohm) | 1 | EA |
|6 | R955 | CRJ14CF5602T | RES, CHIP(3216/1%/56Kohm) | 1 | EA |
|6 | R956 | CRJ18AJ473T | RES, CHIP(2012/5%/47Kohm) | 1 | EA |
|6 | R957 | CRJ18AJ181T | RES, CHIP(2012/5%/180ohm) | 1 | EA |
|6 | R958 | CRJ18AF1002T | RES, CHIP(2012/1%/10Kohm) | 1 | EA |
|6 | R959 | CRJ18AF5601T | RES, CHIP(2012/1%/5.6Kohm) | 1 | EA |
|6 | R960 | CRJ01HJ752T | RES, CHIP(6432/5%/7.5Kohm) | 1 | EA |
|6 | R961 | CRJ18AJ103T | RES, CHIP(2012/5%/10Kohm) | 1 | EA |

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|-------|------|---------------|---|---|----|
|6 | R962 | CRJ18AF4302T | RES , CHIP | 1 | EA |
|6 | R963 | CRJ14CJ0R0T | RES, CHIP(3216/5%/0ohm) | 1 | EA |
|6 | R966 | CRJ18AJ220T | RES, CHIP(2012/5%/22ohm) | 1 | EA |
|6 | R967 | CRJ18AJ100T | RES, CHIP(2012/5%/10ohm) | 1 | EA |
|6 | R968 | CRJ18AJ0R0T | RES, CHIP(2012/5%/0ohm) | 1 | EA |
|6 | R969 | CRJ18AJ0R0T | RES, CHIP(2012/5%/0ohm) | 1 | EA |
|6 | R970 | CRJ18AJ100T | RES, CHIP(2012/5%/10ohm) | 1 | EA |
|6 | R971 | CRJ18AJ100T | RES, CHIP(2012/5%/10ohm) | 1 | EA |
|6 | R972 | CRJ18AJ100T | RES, CHIP(2012/5%/10ohm) | 1 | EA |
|6 | R973 | CRJ01HJ221T | RES, CHIP(6432/5%/220ohm) | 1 | EA |
|6 | R974 | CRJ14CJ154T | RES, CHIP(3216/5%/150Kohm) | 1 | EA |
|6 | R975 | CRJ14CJ154T | RES, CHIP(3216/5%/150Kohm) | 1 | EA |
|6 | R976 | CRJ14CJ154T | RES, CHIP(3216/5%/150Kohm) | 1 | EA |
|6 | R977 | CRJ18AF6802T | RES, CHIP(2012/1%/68Kohm) | 1 | EA |
|6 | R978 | CRJ01HJ221T | RES, CHIP(6432/5%/220ohm) | 1 | EA |
|6 | R979 | CRJ14CJ474T | RES, CHIP(3216/5%/470Kohm) | 1 | EA |
|6 | R980 | CRJ14CJ474T | RES, CHIP(3216/5%/470Kohm) | 1 | EA |
|6 | R981 | CRJ14CJ474T | RES, CHIP(3216/5%/470Kohm) | 1 | EA |
|6 | R982 | CRJ14CJ474T | RES, CHIP(3216/5%/470Kohm) | 1 | EA |
|6 | R984 | CRJ18AJ470T | RES, CHIP(2012/5%/47ohm) | 1 | EA |
|6 | R985 | CRJ18AJ182T | RES, CHIP(2012/5%/1.8Kohm) | 1 | EA |
|6 | R986 | CRJ18AJ561T | RES, CHIP(2012/5%/560ohm) | 1 | EA |
|6 | R988 | CRJ18AJ0R0T | RES, CHIP(2012/5%/0ohm) | 1 | EA |
|6 | R989 | CRJ18AJ182T | RES, CHIP(2012/5%/1.8Kohm) | 1 | EA |
|6 | R990 | CRJ01HJ100T | RES , CHIP | 1 | EA |
|6 | R991 | CRJ18AJ102T | RES, CHIP(2012/5%/1Kohm) | 1 | EA |
|6 | R992 | CRJ14CJ0R0T | RES, CHIP(3216/5%/0ohm) | 1 | EA |
|6 | R993 | CRJ01HJ752T | RES, CHIP(6432/5%/7.5Kohm) | 1 | EA |
|6 | R994 | CRJ01HJ361T | RES, CHIP(6432/5%/360ohm) | 1 | EA |
|6 | R995 | CRJ01HJ361T | RES, CHIP(6432/5%/360ohm) | 1 | EA |
|6 | R996 | CRJ18AJ470T | RES, CHIP(2012/5%/47ohm) | 1 | EA |
|6 | R997 | CRJ14CF5602T | RES, CHIP(3216/1%/56Kohm) | 1 | EA |
|6 | R999 | CRJ14CF5602T | RES, CHIP(3216/1%/56Kohm) | 1 | EA |
|5 | C911 | CKKT3A102KBL | CAP, CERAMIC(1kV/1000pF/K) | 1 | EA |
|5 | C918 | CCEA1HH100TCS | CAP, ELECT(50V/10uF),105'C | 1 | EA |
|5 | C920 | CCEA1HH470TCS | CAP, ELECT(50V/47uF),105'C | 1 | EA |
|5 | C921 | CCEA1HH220TCS | CAP, ELECT(50V/22uF),105'C | 1 | EA |
|5 | C929 | CCEA0JH471TCS | CAP, ELECT(6.3V/470uF),105'C | 1 | EA |
|5 | C932 | CCEA1HH470TCS | CAP, ELECT(50V/47uF),105'C | 1 | EA |
|5 | C944 | CCEA0JH102TCS | CAP, ELECT(6.3V/1000uF),105'C | 1 | EA |
|5 | C949 | CCEA2AH100TCS | CAP, ELECT(100V/10uF),105'C | 1 | EA |
|5 | C953 | CCEA1EH101TCS | CAP, ELECT(25V/100uF),105'C | 1 | EA |
|5 | C955 | CCEA1HH220TCS | CAP, ELECT(50V/22uF),105'C | 1 | EA |
|5 | C984 | CCEA0JH471TCS | CAP, ELECT(6.3V/470uF),105'C | 1 | EA |
|5 | D910 | HVDUF4007T | DIODE , SCHOTTKY | 1 | EA |
|5 | D919 | HVD1N4007T | DIODE | 1 | EA |
|5 | D921 | HVD11EQ06T | DIODE , SCHOTTKY (60V/1A) | 1 | EA |
|5 | D928 | CVDZJ20BT | DIODE , ZENER ,1/2W, 20V | 1 | EA |
|5 | D933 | CVDSF26 | DIODE , SUPER FAST RECTIFIER | 1 | EA |
|5 | D937 | CVDSF26 | DIODE , SUPER FAST RECTIFIER | 1 | EA |
|5 | D943 | HVDUF4004T | DIODE , SCHOTTKY | 1 | EA |
|5 | ET91 | CJT1A026 | PLATE , EARTH(TRONIC ELECTRONICS) | 1 | EA |
|5 | ET92 | CJT1A026 | PLATE , EARTH(TRONIC ELECTRONICS) | 1 | EA |
|5 | ET93 | CJT1A026 | PLATE , EARTH(TRONIC ELECTRONICS) | 1 | EA |
|5 | ET95 | CJT1A026 | PLATE , EARTH(TRONIC ELECTRONICS) | 1 | EA |
|5 | FH91 | KJFC5S | HOLDER , FUSE | 1 | EA |
|5 | FH92 | KJFC5S | HOLDER , FUSE | 1 | EA |
|5 | IC99 | CVIL78L24AB | IC, REGULATOR (24V, TO-92L) | 1 | EA |
|5 | Q902 | HVTKSA708YT | T.R | 1 | EA |
|5 | Q903 | HVTKSA708YT | T.R | 1 | EA |
|5 | Q914 | HVTKSA708YT | T.R | 1 | EA |
|5 | RX93 | CRO50TJ155T | RES , SURGE ,(1.5M OHM, 5%, 1/2W, PRC TYPE) | 1 | EA |

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|5 | R908 | CRW1PJ0R6T | RES , WIRE WOUND (1W/0.60HM) | 1 | EA |
| ...4 | | COP12654BA | COPPER SHIELD PCB ASS'Y (HK37X0) | 1 | EA |
|5 | | CWE8102070SV001 | WIRE ASS'Y 1P, UL1617#18, Double-insulated | 2 | EA |
|5 | | C4B400125 | TUBE , UL (40PIE , 125mm , BLACK) | 0,125 | M |
| ...4 | | C4B050020 | TUBE , UL (5 PIE , 20mm , BLACK) | 0,02 | M |
| ...4 | BD91 | CLZ9H002Z | BEAD , CORE(100MHz MIN 120ohm) | 1 | EA |
| ...4 | BN65 | CWB1C01525047 | WIRE ASSY (LOCK, 15P, 250mm, 2.0mm) | 1 | EA |
| ...4 | CN20 | CJP03GA90ZY | WAFER,YW396-03B(3.96mm) | 1 | EA |
| ...4 | CN66 | CJP07GI236ZW | LOCKING TYPE , STRAIGHT WAFER , 2MM | 1 | EA |
| ...4 | CN90 | CJP02KA060ZY | WAFER, 2P, 3.96mm | 1 | EA |
| ...4 | CN91 | CJP02KA060ZY | WAFER, 2P, 3.96mm | 1 | EA |
| ...4 | CX91 | CCQF2E224KZFS | CAP , X2(275VAC, 0.22uF, 12mm, SEORYONG) | 1 | EA |
| ...4 | CX92 | CCQF2E334KZES | CAP , X2(275VAC, 0.33uF, 15mm, SEORYONG) | 1 | EA |
| ...4 | CY91 | CCKDHS102ME | CAP , CERAMIC (400V Y-CAP) | 1 | EA |
| ...4 | CY92 | CCKDHS102ME | CAP , CERAMIC (400V Y-CAP) | 1 | EA |
| ...4 | CY93 | CCKDHS102ME | CAP , CERAMIC (400V Y-CAP) | 1 | EA |
| ...4 | CY94 | CCKDHS471ME | CAP , CERAMIC (400V Y-CAP) | 1 | EA |
| ...4 | CY95 | CCKDHS471ME | CAP , CERAMIC (400V Y-CAP) | 1 | EA |
| ...4 | C902 | CCET450VKM220NCS | CAP, ELECT(450V/22uF),105'C,13X20 | 1 | EA |
| ...4 | C928 | CCEA1JGF222ECS | CAP, ELECT(63V/2200uF/105'C), 18X40 | 1 | EA |
| ...4 | C930 | CCET450VK3J151NKS | CAP , ELECT(K3J, 150uF/450V, 25 X 40) | 1 | EA |
| ...4 | C933 | CCEA1EH471ECS | CAP, ELECT(25V/470uF),105'C | 1 | EA |
| ...4 | C936 | CCEA1JGF222ECS | CAP, ELECT(63V/2200uF/105'C), 18X40 | 1 | EA |
| ...4 | C937 | CCEA1JH471ECS | CAP , ELECT(63V/470uF),105'C | 1 | EA |
| ...4 | C939 | CCEA1JH471ECS | CAP , ELECT(63V/470uF),105'C | 1 | EA |
| ...4 | C941 | CCEA1AGF562ECS | CAP, ELECT(10V/5600uF/105'C), 13X30 | 1 | EA |
| ...4 | C943 | CCEA1AH102ECS | CAP, ELECT(10V/1000uF),105'C | 1 | EA |
| ...4 | DB91 | CVDRS1005M | DIODE , BRIDGE (600V/10A,RS-10M) | 1 | EA |
| ...4 | D938 | HVD31DQ06H | DIODE | 1 | EA |
| ...4 | D939 | HVD31DQ06H | DIODE | 1 | EA |
| ...4 | HS91 | CVTSPW17N80C3ZA | FET HEAT SINK ASS'Y (AVR170, CMY2A327ZA) | 1 | EA |
|5 | | CMD1A720 | BRACKET , THERMAL SENSOR | 1 | EA |
|5 | | CMX1A164 | INSULATOR , SILICON | 1 | EA |
|5 | | CMY2A327ZA-V2 | HEAT SINK | 1 | EA |
|5 | | CRTST22110070WZA | PROTECTOR , THERMAL ASS'Y | 1 | EA |
|6 | | CRTST22110070W | PROTECTOR , THERMAL (110'C, 70mm) | 1 | EA |
|6 | | CRTST22110070WA | PROTECTOR , THERMAL ASS'Y (110'C, 70mm) | 1 | EA |
|5 | | CTB3+10JR | SCREW | 1 | EA |
|5 | | CVTSPW17N80C3 | F.E.T , SPW17N80C3 (800V/17A, PG-T0247-3) | 1 | EA |
| ...4 | HS92 | CVDFCU20A40XA | DIODE HEAT SINK ASS'Y (CMY3A222) | 1 | EA |
|5 | | CMY3A222-V2 | HEAT SINK | 1 | EA |
|5 | | CTB3+10JR | SCREW | 1 | EA |
|5 | | CVDFCU20A40 | DIODE , FAST RECOVERY (400V/20A,TO-220) | 1 | EA |
|5 | | K8AYG6260 | COMPOUND , SILICONE | 0,2 | G |
| ...4 | HS93 | CVDFCU20A40XA | DIODE HEAT SINK ASS'Y (CMY3A222) | 1 | EA |
|5 | | CMY3A222-V2 | HEAT SINK | 1 | EA |
|5 | | CTB3+10JR | SCREW | 1 | EA |
|5 | | CVDFCU20A40 | DIODE , FAST RECOVERY (400V/20A,TO-220) | 1 | EA |
|5 | | K8AYG6260 | COMPOUND , SILICONE | 0,2 | G |
| ...4 | HS94 | CVINJM7812FAXA | HEAT SINK ASS'Y(HVINJM7812FA+CMY2A223) | 1 | EA |
|5 | | CMY2A223-V2 | HEAT SINK | 1 | EA |
|5 | | CTB3+8JR | SCREW | 1 | EA |
|5 | | HVINJM7812FA | I.C , REGULATOR | 1 | EA |
|5 | | K8AYG6260 | COMPOUND , SILICONE | 0,2 | G |
| ...4 | HS96 | CVT10N65KLYA | HEAT SINK ASS'Y(CMY2A223-V2) | 1 | EA |
|5 | | CMY2A223-V2 | HEAT SINK | 1 | EA |
|5 | | CTB3+8JR | SCREW | 1 | EA |
|5 | | CVT10N65KL | FET, 10N65K, N-CH, TO-220F, UTC | 1 | EA |
|5 | | K8AYG6260 | COMPOUND , SILICONE | 0,2 | G |
| ...4 | IC91 | CVIOB2358LAP | I.C , PWM | 1 | EA |
| ...4 | IC98 | HVINJM7912FA | I.C , REGULATOR | 1 | EA |
| ...4 | LF91 | CLZ9Z135Z | FILTER , LINE (SQE2930, 8mH) | 1 | EA |

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| ...4 | LF92 | CLZ9Z135Z | FILTER , LINE (SQE2930, 8mH) | 1 | EA |
| ...4 | LF93 | CLZ9Z121Z | LINE, FILTER (150uH, RING-616) | 1 | EA |
| ...4 | L924 | CLZ9Z175Z | COIL , BAR CHOKE | 1 | EA |
| ...4 | L925 | CLZ9Z090Z | COIL , CHOKE(7UH) | 1 | EA |
| ...4 | L928 | CLZ9Z175Z | COIL , BAR CHOKE | 1 | EA |
| ...4 | L929 | CLZ9Z175Z | COIL , BAR CHOKE | 1 | EA |
| ...4 | L930 | CLZ9Z175Z | COIL , BAR CHOKE | 1 | EA |
| ...4 | PC89 | CVIEL817B | I.C , PHOTO COUPLER | 1 | EA |
| ...4 | PC95 | CVIEL817B | I.C , PHOTO COUPLER | 1 | EA |
| ...4 | PC97 | CVIEL817B | I.C , PHOTO COUPLER | 1 | EA |
| ...4 | PC98 | CVIEL817B | I.C , PHOTO COUPLER | 1 | EA |
| ...4 | R765 | CRW1PJ1R5V | WIRE WOUND (1W/1.5 OHM) | 1 | EA |
| ...4 | R778 | CRF5EJR01HS | RES , CEMENT (5W, 0.01 OHM, 5% SMALL SIZE) | 1 | EA |
| ...4 | R903 | CRG2ANJ470H | RES , METAL OXIDE FILM | 1 | EA |
| ...4 | R913 | CRW1PJ0R1V | RES , WIRE WOUND (1W/0.1OHM) | 1 | EA |
| ...4 | R914 | CRW1PJ0R1V | RES , WIRE WOUND (1W/0.1OHM) | 1 | EA |
| ...4 | R920 | CRG2ANJ683H | RES , METAL OXIDE FILM | 1 | EA |
| ...4 | TF91 | CLT9Z087ZE | TRANS , STBY (AVR1X1) | 1 | EA |
| ...4 | TF92 | CLT9Z105ZE | TRANS , SWITCHING | 1 | EA |
| ...4 | TF93 | CLT9Z106ZE | TRANS , SWITCHING | 1 | EA |
| ...4 | TH91 | CRT2R5D20MSFC | NTC , THERMISTOR (10MM PITCH, 2.5D-20) | 1 | EA |
| ...4 | TS92 | CJP02GA01ZY | WAFER/STRAIGHT/2.5mm/2P | 1 | EA |
| ...4 | VT91 | CRVSVC561D14A | VARISTOR(560V, 14mm) | 1 | EA |
| ...4 | VT92 | CRVSVC561D14A | VARISTOR(560V, 14mm) | 1 | EA |
| ..3 | | COP12620E | HK3770/230 DIGITAL PCB ASS'Y | 1 | EA |
|7 | C1102 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1103 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1104 | CCUI1C104KCS | CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1107 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1110 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1111 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1115 | CCUI1C104KCS | CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1116 | CCUI1C104KCS | CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1117 | CCUS0J225KCS | CAP, CHIP(1608, 6.3V/2.2uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1119 | CCUS0J225KCS | CAP, CHIP(1608, 6.3V/2.2uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1120 | CCUI1C104KCS | CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1121 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1124 | CCUS1H220JAS | CAP, CHIP(1608, 50V/22pF, COG)_SAMSUNG | 1 | EA |
|7 | C1125 | CCUS1H220JAS | CAP, CHIP(1608, 50V/22pF, COG)_SAMSUNG | 1 | EA |
|7 | C1130 | CCUP0J226KCS | CAP, CHIP(3216, 6.3V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1132 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1135 | CCUS1A105KCS | CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1136 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1142 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1143 | CCUS1A105KCS | CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1145 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1146 | CCUS1H100JAS | CAP, CHIP(1608, 50V/10pF, COG)_SAMSUNG | 1 | EA |
|7 | C1147 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1149 | CCUS1A105KCS | CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1150 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1151 | CCUS1A105KCS | CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1152 | CCUS1H680JAS | CAP, CHIP(1608, 50V/68pF, COG)_SAMSUNG | 1 | EA |
|7 | C1153 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1154 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1155 | CCUS1H680JAS | CAP, CHIP(1608, 50V/68pF, COG)_SAMSUNG | 1 | EA |
|7 | C1156 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1157 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1159 | CCUS0J225KCS | CAP, CHIP(1608, 6.3V/2.2uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1160 | CCUS1H680JAS | CAP, CHIP(1608, 50V/68pF, COG)_SAMSUNG | 1 | EA |
|7 | C1161 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1162 | CCUS1H680JAS | CAP, CHIP(1608, 50V/68pF, COG)_SAMSUNG | 1 | EA |
|7 | C1163 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |

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|7 | C1164 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1165 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1190 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1191 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1202 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1204 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1206 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1208 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1213 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1214 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1248 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1301 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|7 | C1302 | CCUS1H272KCS | CAP, CHIP(1608, 50V/2700pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1303 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1304 | CCUS1H151JAS | CAP, CHIP(1608, 50V/150pF, COG)_SAMSUNG | 1 | EA |
|7 | C1307 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1308 | CCUS1H101JAS | CAP, CHIP(1608, 50V/100pF, COG)_SAMSUNG | 1 | EA |
|7 | C1309 | CCUS1H272KCS | CAP, CHIP(1608, 50V/2700pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1310 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1311 | CCUS1H151JAS | CAP, CHIP(1608, 50V/150pF, COG)_SAMSUNG | 1 | EA |
|7 | C1313 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1314 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1315 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1317 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1319 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1322 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1323 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1324 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1325 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1326 | CCUS1H223KCS | CAP, CHIP(1608, 50V/0.022uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1327 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1328 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1330 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1331 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1333 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1341 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1342 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1344 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1347 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1350 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1354 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1355 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1364 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1365 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1366 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1367 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1369 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1370 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1371 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1373 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1374 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1375 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1377 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1378 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1379 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1380 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1382 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1384 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1389 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1406 | CCUC1A225KCS | CAP, CHIP(2012, 10V/2.2uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1407 | CCUC1A225KCS | CAP, CHIP(2012, 10V/2.2uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1411 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |

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|-------|--------|----------------------|--|---|----|
|7 | C1414 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1417 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1418 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1427 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1428 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1429 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1430 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1431 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1432 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1433 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1434 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1435 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1436 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1437 | CCUS1H151JAS | CAP, CHIP(1608, 50V/150pF, COG)_SAMSUNG | 1 | EA |
|7 | C1450 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1451 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1500 | CCUS1H391JAS | CAP, CHIP(1608, 50V/390pF, COG)_SAMSUNG | 1 | EA |
|7 | C1503 | CCUS1H272KCS | CAP, CHIP(1608, 50V/2700pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1506 | CCUS1H272KCS | CAP, CHIP(1608, 50V/2700pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1508 | CCUS1H391JAS | CAP, CHIP(1608, 50V/390pF, COG)_SAMSUNG | 1 | EA |
|7 | C1511 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1512 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1550 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1553 | CCUS1H102KCS | CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1556 | CCUC1H105KCS | CAP, CHIP(2012, 50V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1558 | CCUC1H105KCS | CAP, CHIP(2012, 50V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1559 | CCUS1H220JAS | CAP, CHIP(1608, 50V/22pF, COG)_SAMSUNG | 1 | EA |
|7 | C1567 | CCUS1H220JAS | CAP, CHIP(1608, 50V/22pF, COG)_SAMSUNG | 1 | EA |
|7 | D1403 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | D1404 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | D1500 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | D1501 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | D1506 | HVDUDZS3.3BSR | DIODE , ZENER(CHIP,3.3V) | 1 | EA |
|7 | D1561 | HVDUDZS9.1BSR | DIODE , ZENER(CHIP,9.1V) | 1 | EA |
|7 | IC1101 | CVIMFI337S3959-HK | IC, Apple iPod Authentication coprocessor 2.0c | 1 | EA |
|7 | IC1105 | CVIAT45DB321E-SHF-T | I.C , SERIAL DATA FLASH(32M,SOIC-8P) | 1 | EA |
|7 | IC1305 | CVIMX25L8006EM2I-12G | I.C , SERIAL FLASH(8M) | 1 | EA |
|7 | IC1306 | HVINJM2115MTE1 | I.C , OP AMP | 1 | EA |
|7 | IC1307 | HVINJM2115MTE1 | I.C , OP AMP | 1 | EA |
|7 | IC1403 | CVIM24C32WMN6TP | I.C , EEPROM (32 Kbit) ST | 1 | EA |
|7 | IC1405 | CVICAT809RTBI-GT3 | I.C , RESET IC (2.63V, SOT-23-3) | 1 | EA |
|7 | L1105 | CLZ9R005V | FERRITE CHIP BEAD(1608/60R, CB03YTYH600) | 1 | EA |
|7 | L1106 | CLZ9R005V | FERRITE CHIP BEAD(1608/60R, CB03YTYH600) | 1 | EA |
|7 | L1107 | CLZ9R005V | FERRITE CHIP BEAD(1608/60R, CB03YTYH600) | 1 | EA |
|7 | L1109 | CLZ9R018V | FERRITE CHIP BEAD(2012/220R, CB05YTYH221) | 1 | EA |
|7 | L1111 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1120 | CLZ9R005V | FERRITE CHIP BEAD(1608/60R, CB03YTYH600) | 1 | EA |
|7 | L1121 | CLZ9R005V | FERRITE CHIP BEAD(1608/60R, CB03YTYH600) | 1 | EA |
|7 | L1203 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1204 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1205 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1208 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1217 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1304 | CLZ9R005V | FERRITE CHIP BEAD(1608/60R, CB03YTYH600) | 1 | EA |
|7 | Q1100 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1401 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|7 | Q1403 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1404 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1405 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1406 | CVTRT1N141C | T.R,RT1N141C(10K-10K) | 1 | EA |
|7 | Q1407 | HVTKTA1504SYRTK | T.R , CHIP , SOT-23 | 1 | EA |
|7 | Q1408 | HVTKTC3875SYRTK | T.R , CHIP , SOT-23 | 1 | EA |

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|-------|-------|--------------|--|---|----|
|7 | Q1500 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1501 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|7 | Q1502 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|7 | Q1503 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1504 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|7 | Q1505 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|7 | Q1506 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|7 | Q1507 | CVTRT1N144C | T.R,RT1N144C(10K-47K) | 1 | EA |
|7 | Q1508 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1509 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1514 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1515 | CVTMMMBT5401 | High Voltage PNP Transistors(SOT-23) | 1 | EA |
|7 | Q1516 | CVTMMMBT5551 | High Voltage NPN Transistors(SOT-23) | 1 | EA |
|7 | R1108 | CRJ06IJ100T | RES, CHIP(1005/5%/10ohm) | 1 | EA |
|7 | R1125 | CRJ10DJ301T | RES, CHIP(1608/5%/300ohm) | 1 | EA |
|7 | R1126 | CRJ06IJ103T | RES, CHIP(1005/5%/10Kohm) | 1 | EA |
|7 | R1127 | CRJ06IJ103T | RES, CHIP(1005/5%/10Kohm) | 1 | EA |
|7 | R1128 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1131 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1132 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1135 | CRJ06IJ330T | RES, CHIP(1005/5%/33ohm) | 1 | EA |
|7 | R1136 | CRJ06IJ330T | RES, CHIP(1005/5%/33ohm) | 1 | EA |
|7 | R1137 | CRJ06IJ0R0T | RES, CHIP(1005/5%/0ohm) | 1 | EA |
|7 | R1142 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1143 | CRJ10DF6041T | RES, CHIP(1608/1%/6.04Kohm) | 1 | EA |
|7 | R1144 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1151 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1152 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1153 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1155 | CRJ10DJ224T | RES, CHIP(1608/5%/220Kohm) | 1 | EA |
|7 | R1162 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1170 | CRJ06IJ101T | RES, CHIP(1005/5%/100ohm) | 1 | EA |
|7 | R1205 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1206 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1209 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1210 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1213 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1215 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1216 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1217 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1218 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1236 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R) _SAMSUNG | 1 | EA |
|7 | R1251 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1258 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1259 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1260 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1261 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1262 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1301 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1302 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1303 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|7 | R1305 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1306 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|7 | R1308 | CRJ10DJ392T | RES, CHIP(1608/5%/3.9Kohm) | 1 | EA |
|7 | R1309 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1310 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1311 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1313 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|7 | R1314 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1315 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|7 | R1317 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1318 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |

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|-------|-------|--------------|-----------------------------|---|----|
|7 | R1321 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1323 | CRJ10DF1371T | RES, CHIP(1608/1%/1.37Kohm) | 1 | EA |
|7 | R1324 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1328 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1329 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | R1330 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | R1331 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1339 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1340 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1341 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1342 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1347 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1348 | CRJ10DJ221T | RES, CHIP(1608/5%/220ohm) | 1 | EA |
|7 | R1350 | CRJ10DF5101T | RES, CHIP(1608/1%/5.1Kohm) | 1 | EA |
|7 | R1352 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1353 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1357 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1358 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1402 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1412 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1413 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1414 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1424 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1425 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1438 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1442 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1450 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1451 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1452 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1456 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|7 | R1457 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|7 | R1458 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|7 | R1459 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1462 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1467 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1469 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1473 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1480 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1481 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1486 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1487 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|7 | R1488 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1489 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1490 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1491 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1500 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1503 | CRJ10DJ682T | RES, CHIP(1608/5%/6.8Kohm) | 1 | EA |
|7 | R1504 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1505 | CRJ10DJ152T | RES, CHIP(1608/5%/1.5Kohm) | 1 | EA |
|7 | R1506 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1509 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1510 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1511 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1514 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1515 | CRJ10DJ152T | RES, CHIP(1608/5%/1.5Kohm) | 1 | EA |
|7 | R1516 | CRJ10DJ682T | RES, CHIP(1608/5%/6.8Kohm) | 1 | EA |
|7 | R1517 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1554 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | R1555 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1556 | CRJ10DJ105T | RES, CHIP(1608/5%/1Mohm) | 1 | EA |
|7 | R1557 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1558 | CRJ10DJ105T | RES, CHIP(1608/5%/1Mohm) | 1 | EA |

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|-------|--------|------------------|--|---|----|
|7 | R1561 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1562 | CRJ10DJ152T | RES, CHIP(1608/5%/1.5Kohm) | 1 | EA |
|7 | R1563 | CRJ10DJ302T | RES, CHIP(1608/5%/3Kohm) | 1 | EA |
|7 | R1564 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | R1567 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1568 | CRJ10DF1002T | RES, CHIP(1608/1%/10Kohm) | 1 | EA |
|7 | R1569 | CRJ10DF1002T | RES, CHIP(1608/1%/10Kohm) | 1 | EA |
|7 | R1572 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1573 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | R1575 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1576 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1577 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1578 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1579 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1581 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1582 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1583 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1590 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1591 | CRJ10DJ105T | RES, CHIP(1608/5%/1Mohm) | 1 | EA |
|7 | R1595 | CRJ10DJ102T | RES, CHIP(1608/5%/1Kohm) | 1 | EA |
|7 | R1596 | CRJ10DJ302T | RES, CHIP(1608/5%/3Kohm) | 1 | EA |
|7 | R1599 | CRJ18AJ151T | RES, CHIP(2012/5%/150ohm) | 1 | EA |
|7 | | CUP12620Z | PCB , DIGITAL (FR-4, 4L,160 X 124) | 1 | EA |
|7 | BN1400 | CJP03GA208ZY | WAFER , SMD (2MM PITCH)-3P | 1 | EA |
|7 | CN1100 | CJP07GA208ZY | WAFER, 2mm, SMD, Vertical, 07p | 1 | EA |
|7 | CN1201 | CJP15GB276ZY | WAFER, 20037WR-NN Series, 2mm, SMD, ANGLE, 15P | 1 | EA |
|7 | CN1400 | CJP03GA208ZY | WAFER , SMD (2MM PITCH)-3P | 1 | EA |
|7 | CN1511 | CJP13GA208ZY | WAFER, 2mm, SMD, Vertical, 13p | 1 | EA |
|7 | C1100 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1101 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1105 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1106 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1108 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1109 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1112 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1113 | CCUS1H180JAS | CAP, CHIP(1608, 50V/18pF, COG)_SAMSUNG | 1 | EA |
|7 | C1114 | CCUS1H180JAS | CAP, CHIP(1608, 50V/18pF, COG)_SAMSUNG | 1 | EA |
|7 | C1118 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1122 | CCUS1H222KCS | CAP, CHIP(1608, 50V/2200pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1123 | CCUS1H222KCS | CAP, CHIP(1608, 50V/2200pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1126 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1127 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1128 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1129 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1131 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1133 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1134 | CCUS1A105KCS | CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1137 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1138 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1139 | CCUS1A105KCS | CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1140 | CCUS1A105KCS | CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1141 | CCUS1H070DAS | CAP, CHIP(1608, 50V/7pF, COG)_SAMSUNG | 1 | EA |
|7 | C1144 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1148 | CCUS1A105KCS | CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG | 1 | EA |
|7 | C1158 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1166 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1167 | CCUS1H150JAS | CAP, CHIP(1608, 50V/15pF, COG)_SAMSUNG | 1 | EA |
|7 | C1168 | CCUS1H150JAS | CAP, CHIP(1608, 50V/15pF, COG)_SAMSUNG | 1 | EA |
|7 | C1169 | CCUS1H200JAS | CAP, CHIP(1608, 50V/20pF, COG)_SAMSUNG | 1 | EA |
|7 | C1170 | CCUS1H200JAS | CAP, CHIP(1608, 50V/20pF, COG)_SAMSUNG | 1 | EA |
|7 | C1171 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1201 | HCECOJRV2221T | CAP, SMD ELECT(6.3V/220uF) | 1 | EA |

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|-------|-------|---------------|---|---|----|
|7 | C1203 | HCEC1CRV2101T | CAP, SMD ELECT(16V/100uF) | 1 | EA |
|7 | C1205 | HCEC1CRV2101T | CAP, SMD ELECT(16V/100uF) | 1 | EA |
|7 | C1207 | CCEC1CRV471T | CAP, SMD ELECT(16V/470uF) | 1 | EA |
|7 | C1209 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1210 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1211 | HCECOJRV2470T | CAP, SMD ELECT(6.3V/47uF) | 1 | EA |
|7 | C1212 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1215 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1216 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1217 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1218 | CCUC1A225KCS | CAP, CHIP(2012, 10V/2.2uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1219 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1220 | CCUS1H152KCS | CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG | 1 | EA |
|7 | C1221 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1222 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1227 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1228 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1229 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1230 | CCUC1A225KCS | CAP, CHIP(2012, 10V/2.2uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1231 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1232 | CCUS1H152KCS | CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG | 1 | EA |
|7 | C1233 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1235 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1244 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1245 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1246 | CCUSSP1E106KC | CAP, CHIP(3216, 25V/10uF) | 1 | EA |
|7 | C1247 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1249 | HCECOJRV2470T | CAP, SMD ELECT(6.3V/47uF) | 1 | EA |
|7 | C1305 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1306 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1312 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1316 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1318 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1320 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1321 | HCEC1CRV2101T | CAP, SMD ELECT(16V/100uF) | 1 | EA |
|7 | C1329 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1332 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1334 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1335 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1336 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1337 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1338 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1339 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1340 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1345 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1348 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1349 | CCUC1C106KCS | CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1351 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1352 | CCUS1H150JAS | CAP, CHIP(1608, 50V/15pF, COG)_SAMSUNG | 1 | EA |
|7 | C1353 | CCUS1H150JAS | CAP, CHIP(1608, 50V/15pF, COG)_SAMSUNG | 1 | EA |
|7 | C1368 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1372 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1376 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1381 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1383 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1385 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1386 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1387 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1388 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1405 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1408 | CCUC1A226KCS | CAP, CHIP(2012, 10V/22uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1409 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |

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|7 | C1410 | CCUS0J475KCS | CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG | 1 | EA |
|7 | C1412 | CCUS1H150JAS | CAP, CHIP(1608, 50V/15pF, COG)_SAMSUNG | 1 | EA |
|7 | C1413 | CCUS1H150JAS | CAP, CHIP(1608, 50V/15pF, COG)_SAMSUNG | 1 | EA |
|7 | C1415 | CCUS1H103KCS | CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1419 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1426 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1501 | CCUS1H272KCS | CAP, CHIP(1608, 50V/2700pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1502 | CCUS1H391JAS | CAP, CHIP(1608, 50V/390pF, COG)_SAMSUNG | 1 | EA |
|7 | C1504 | CCUS1H272KCS | CAP, CHIP(1608, 50V/2700pF, X7R)_SAMSUNG | 1 | EA |
|7 | C1505 | CCUS1H391JAS | CAP, CHIP(1608, 50V/390pF, COG)_SAMSUNG | 1 | EA |
|7 | C1507 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1509 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1510 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1513 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1542 | CCEC1CRV471T | CAP, SMD ELECT(16V/470uF) | 1 | EA |
|7 | C1543 | CCEC1CRV471T | CAP, SMD ELECT(16V/470uF) | 1 | EA |
|7 | C1544 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1545 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1546 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1547 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1551 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1552 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1554 | HCECOJRV2220T | CAP, SMD ELECT(6.3V/22uF) | 1 | EA |
|7 | C1555 | CCUS1H104KCS | CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG | 1 | EA |
|7 | C1557 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1560 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1561 | HCEC1CRV2101T | CAP, SMD ELECT(16V/100uF) | 1 | EA |
|7 | C1562 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1563 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1564 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1565 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1566 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1568 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | C1569 | HCEC1CRV2100T | CAP, SMD ELECT(16V/10uF) | 1 | EA |
|7 | D1104 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | D1105 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | D1401 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | D1502 | HVD1SR159-200 | DIODE , RECTIFIER | 1 | EA |
|7 | D1503 | HVD1SR159-200 | DIODE , RECTIFIER | 1 | EA |
|7 | D1504 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | D1505 | CVD1SS355T | DIODE , CHIP , SWITCHING | 1 | EA |
|7 | F1301 | CRTMINISMDC200F | SW , POLY (RESETTABLE 2A 0.02 OHM 1W 4532) | 1 | EA |
|7 | IC1100 | CVIISL54220IUZ-T | I.C , USB2.0 Multiplexer(TQFN-10P) | 1 | EA |
|7 | IC1102 | CVIKSZ8851SNLTR | I.C , ETHERNET PHY (10/100M,QFN-32P)) | 1 | EA |
|7 | IC1103 | CVIPCM5100PWR | I.C , 2CH DAC(32BIT,384KHZ,TSSOP-20P) | 1 | EA |
|7 | IC1104 | CVIA3V28S40FTP-G6 | EOL item I.C , SDRAM(128MBIT,TSOP-54P) | 1 | EA |
|7 | IC1106 | CVIFS1230A | I.C , CHORUS3(NETWORK PROCESSOR) | 1 | EA |
|7 | IC1201 | CVIAZ1117CH-5.0TRG1 | LDO, low dropout three-terminal regulator | 1 | EA |
|7 | IC1202 | CVIDB1230HETR | I.C , DC DC CONVERTER(3A,700KHZ,SOP-8P) | 1 | EA |
|7 | IC1204 | CVIDB1230HETR | I.C , DC DC CONVERTER(3A,700KHZ,SOP-8P) | 1 | EA |
|7 | IC1205 | CVIEML3418-00SE08GRR | I.C , DCDC CONVERTER(SOP-8FD) | 1 | EA |
|7 | IC1206 | CVIAZ1117CH-1.2TRG1 | LDO , low dropout three-terminal regulator | 1 | EA |
|7 | IC1301 | HVICS42528-CQ | I.C , CODEC + DIR (CIRRUS LOGIC) | 1 | EA |
|7 | IC1302 | CVICKS495314CVZ | I.C , DSP AUDIO DECODER(LQFP-128P) | 1 | EA |
|7 | IC1309 | CVINJM2845DL118 | I.C, REGULATOR(1.8V/TO-252) | 1 | EA |
|7 | IC1400 | CRTLM94022BIMG | SENSOR , TEMPERATURE | 1 | EA |
|7 | IC1401 | CVISTM32F205ZGT6 | I.C , FLASH MCU (32 BIT, 1MB, LQFP 144) | 1 | EA |
|7 | IC1404 | CVIDB1510BT3TR33 | I.C, REGULATOR(1.0A,3.3V,TO252-(1)) | 1 | EA |
|7 | IC1500 | CVIAZ4580MTR-E1 | EOL item I.C , OPAMP(DUAL/LOW NOISE) | 1 | EA |
|7 | IC1502 | CVILM7808RTTL | IC, REGULATOR(1A, 8V) | 1 | EA |
|7 | IC1503 | CVILM7908RTTL | IC, REGULATOR(1A, -8V) | 1 | EA |
|7 | IC1511 | CVINJM2753V | I.C , Stereo Audio Selector(SSOP14) | 1 | EA |

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|-------|--------|--------------|---|---|----|
|7 | JK1100 | CJJ9L026Z | JACK , RJ-45 With TR (SMT) | 1 | EA |
|7 | L1100 | CLZ9R018V | FERRITE CHIP BEAD(2012/220R, CB05YTYH221) | 1 | EA |
|7 | L1101 | CLZ9R018V | FERRITE CHIP BEAD(2012/220R, CB05YTYH221) | 1 | EA |
|7 | L1102 | CLZ9Z127Z | COIL, CHOKE CHIP(2012/180R) | 1 | EA |
|7 | L1103 | CLZ9Z128Z | COIL, CHOKE CHIP(2012/90R) | 1 | EA |
|7 | L1104 | CLZ9Z128Z | COIL, CHOKE CHIP(2012/90R) | 1 | EA |
|7 | L1108 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1110 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1112 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1113 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1114 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1115 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1116 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1117 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1201 | CLQ12E100MRZ | COIL , SMD POWER (10uH/3A) | 1 | EA |
|7 | L1202 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1206 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1207 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1214 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1215 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1216 | CLQ18E1R5NRZ | COIL,SMD POWER(1.5uH/2A) | 1 | EA |
|7 | L1219 | CLQ20E3R3NRZ | COIL,SMD POWER(3.3uH/3.2A) | 1 | EA |
|7 | L1220 | CLQ20E3R3NRZ | COIL,SMD POWER(3.3uH/3.2A) | 1 | EA |
|7 | L1301 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1302 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1303 | CLZ9Z014Z | FERRITE CHIP BEAD(4516/60R) | 1 | EA |
|7 | L1401 | CLZ9R005V | FERRITE CHIP BEAD(1608/60R, CB03YTYH600) | 1 | EA |
|7 | L1500 | CLZ9R005V | FERRITE CHIP BEAD(1608/60R, CB03YTYH600) | 1 | EA |
|7 | Q1402 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1510 | CVTRT1P144C | T.R,RT1P144C(10K-47K) | 1 | EA |
|7 | Q1511 | CVTMMMBT5551 | High Voltage NPN Transistors(SOT-23) | 1 | EA |
|7 | Q1512 | CVTMMMBT5551 | High Voltage NPN Transistors(SOT-23) | 1 | EA |
|7 | Q1513 | CVTMMMBT5551 | High Voltage NPN Transistors(SOT-23) | 1 | EA |
|7 | Q1517 | CVTMMMBT5551 | High Voltage NPN Transistors(SOT-23) | 1 | EA |
|7 | RN1302 | CRJ064IJ330T | RES, CHIP(1005/5%/33ohm*4) | 1 | EA |
|7 | RN1303 | CRJ064IJ330T | RES, CHIP(1005/5%/33ohm*4) | 1 | EA |
|7 | RN1400 | CRJ104DJ101T | RES, CHIP(1608/5%/100ohm*4) | 1 | EA |
|7 | RN1401 | CRJ104DJ101T | RES, CHIP(1608/5%/100ohm*4) | 1 | EA |
|7 | RN1402 | CRJ104DJ101T | RES, CHIP(1608/5%/100ohm*4) | 1 | EA |
|7 | R1100 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1101 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1104 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1105 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1106 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1107 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1109 | CRJ10DJ510T | RES, CHIP(1608/5%/51ohm) | 1 | EA |
|7 | R1110 | CRJ10DJ510T | RES, CHIP(1608/5%/51ohm) | 1 | EA |
|7 | R1111 | CRJ10DJ510T | RES, CHIP(1608/5%/51ohm) | 1 | EA |
|7 | R1112 | CRJ10DJ510T | RES, CHIP(1608/5%/51ohm) | 1 | EA |
|7 | R1114 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1115 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1116 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1117 | CRJ06IJ330T | RES, CHIP(1005/5%/33ohm) | 1 | EA |
|7 | R1118 | CRJ06IJ330T | RES, CHIP(1005/5%/33ohm) | 1 | EA |
|7 | R1119 | CRJ06IJ330T | RES, CHIP(1005/5%/33ohm) | 1 | EA |
|7 | R1120 | CRJ06IJ330T | RES, CHIP(1005/5%/33ohm) | 1 | EA |
|7 | R1121 | CRJ06IJ330T | RES, CHIP(1005/5%/33ohm) | 1 | EA |
|7 | R1122 | CRJ06IJ105T | RES, CHIP(1005/5%/1Mohm) | 1 | EA |
|7 | R1123 | CRJ06IJ330T | RES, CHIP(1005/5%/33ohm) | 1 | EA |
|7 | R1124 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|7 | R1129 | CRJ10DJ471T | RES, CHIP(1608/5%/470ohm) | 1 | EA |
|7 | R1130 | CRJ10DJ471T | RES, CHIP(1608/5%/470ohm) | 1 | EA |

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|-------|-------|--------------|----------------------------|---|----|
|7 | R1133 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1134 | CRJ06IJ330T | RES, CHIP(1005/5%/33ohm) | 1 | EA |
|7 | R1138 | CRJ064IJ750T | RES, CHIP(1005/5%/75ohm*4) | 1 | EA |
|7 | R1139 | CRJ06IJ101T | RES, CHIP(1005/5%/100ohm) | 1 | EA |
|7 | R1140 | CRJ10DJ152T | RES, CHIP(1608/5%/1.5Kohm) | 1 | EA |
|7 | R1146 | CRJ10DJ105T | RES, CHIP(1608/5%/1Mohm) | 1 | EA |
|7 | R1147 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1148 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1149 | CRJ10DJ105T | RES, CHIP(1608/5%/1Mohm) | 1 | EA |
|7 | R1150 | CRJ10DJ511T | RES, CHIP(1608/5%/510ohm) | 1 | EA |
|7 | R1201 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1207 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1208 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1211 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1212 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1214 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1222 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1223 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1224 | CRJ10DF1502T | RES, CHIP(1608/1%/15Kohm) | 1 | EA |
|7 | R1225 | CRJ10DF4702T | RES, CHIP(1608/1%/47Kohm) | 1 | EA |
|7 | R1226 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1231 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1232 | CRJ10DF1002T | RES, CHIP(1608/1%/10Kohm) | 1 | EA |
|7 | R1233 | CRJ10DF2702T | RES, CHIP(1608/1%/27Kohm) | 1 | EA |
|7 | R1234 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1237 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1238 | CRJ10DF1002T | RES, CHIP(1608/1%/10Kohm) | 1 | EA |
|7 | R1239 | CRJ10DF4702T | RES, CHIP(1608/1%/47Kohm) | 1 | EA |
|7 | R1250 | CRJ10DF1002T | RES, CHIP(1608/1%/10Kohm) | 1 | EA |
|7 | R1254 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1255 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1263 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1264 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1265 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1266 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1288 | CRJ10DF2702T | RES, CHIP(1608/1%/27Kohm) | 1 | EA |
|7 | R1299 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1304 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1307 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|7 | R1312 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1316 | CRJ10DJ272T | RES, CHIP(1608/5%/2.7Kohm) | 1 | EA |
|7 | R1319 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1320 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1322 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1325 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1326 | CRJ10DJ100T | RES, CHIP(1608/5%/10ohm) | 1 | EA |
|7 | R1327 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1334 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1335 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1336 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1337 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1338 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1343 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1344 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1345 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1346 | CRJ10DJ105T | RES, CHIP(1608/5%/1Mohm) | 1 | EA |
|7 | R1349 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1354 | CRJ10DJ820T | RES, CHIP(1608/5%/82ohm) | 1 | EA |
|7 | R1355 | CRJ10DJ0ROT | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1356 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1362 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1363 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |

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|-------|--------|----------------|---------------------------------------|---|----|
|7 | R1375 | CRJ06IJ0R0T | RES, CHIP(1005/5%/0ohm) | 1 | EA |
|7 | R1376 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1403 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1411 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1416 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1417 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1418 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1419 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1420 | CRJ06IJ0R0T | RES, CHIP(1005/5%/0ohm) | 1 | EA |
|7 | R1421 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1427 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1428 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1430 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1431 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1432 | CRJ10DJ100T | RES, CHIP(1608/5%/10ohm) | 1 | EA |
|7 | R1433 | CRJ10DJ100T | RES, CHIP(1608/5%/10ohm) | 1 | EA |
|7 | R1434 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1435 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1436 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1437 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1443 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1444 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1445 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1446 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1447 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1448 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1449 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1453 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1461 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1464 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1465 | CRJ10DJ105T | RES, CHIP(1608/5%/1Mohm) | 1 | EA |
|7 | R1466 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1470 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1471 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1472 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1474 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1476 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1477 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1478 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1483 | CRJ10DJ473T | RES, CHIP(1608/5%/47Kohm) | 1 | EA |
|7 | R1484 | CRJ10DJ100T | RES, CHIP(1608/5%/10ohm) | 1 | EA |
|7 | R1485 | CRJ10DJ103T | RES, CHIP(1608/5%/10Kohm) | 1 | EA |
|7 | R1493 | CRJ10DJ101T | RES, CHIP(1608/5%/100ohm) | 1 | EA |
|7 | R1494 | CRJ10DJ330T | RES, CHIP(1608/5%/33ohm) | 1 | EA |
|7 | R1501 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1502 | CRJ10DJ152T | RES, CHIP(1608/5%/1.5Kohm) | 1 | EA |
|7 | R1507 | CRJ10DJ682T | RES, CHIP(1608/5%/6.8Kohm) | 1 | EA |
|7 | R1508 | CRJ10DJ682T | RES, CHIP(1608/5%/6.8Kohm) | 1 | EA |
|7 | R1512 | CRJ10DJ332T | RES, CHIP(1608/5%/3.3Kohm) | 1 | EA |
|7 | R1513 | CRJ10DJ152T | RES, CHIP(1608/5%/1.5Kohm) | 1 | EA |
|7 | R1565 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1566 | CRJ10DJ472T | RES, CHIP(1608/5%/4.7Kohm) | 1 | EA |
|7 | R1570 | CRJ10DJ0R0T | RES, CHIP(1608/5%/0ohm) | 1 | EA |
|7 | R1571 | CRJ10DJ104T | RES, CHIP(1608/5%/100Kohm) | 1 | EA |
|7 | WF1100 | CJP15GA193ZY | WAFER, FFC, SMD(15P-1mm, STRAIGHT) | 1 | EA |
|7 | WF1400 | CJP23GA299ZN | WAFER, FFC, SMD(23P-1.25mm, STRAIGHT) | 1 | EA |
|7 | WF1401 | CJP07GA193ZY | WAFER, FFC, SMD(07P-1mm, STRAIGHT) | 1 | EA |
|7 | WF1402 | CJP09GA193ZY | WAFER, FFC, SMD(09-1mm, STRAIGHT) | 1 | EA |
|7 | WF1403 | CJP11GA299ZN | WAFER, FFC, SMD(11P-1.25mm, STRAIGHT) | 1 | EA |
|7 | WF1500 | CJP17GA193ZY | WAFER, FFC, SMD(17P-1mm, STRAIGHT) | 1 | EA |
|7 | WF1502 | CJP23GA299ZN | WAFER, FFC, SMD(23P-1.25mm, STRAIGHT) | 1 | EA |
|7 | X1100 | COX25000I120ST | X-TAL, SMD 3.2X2.5, 25.000MHz, 12PF | 1 | EA |

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|-------|-------|------------------|--|---|----|
|7 | X1101 | COX12000I100ST | X-TAL, SMD 3.2X2.5, 12.000MHz, 10PF | 1 | EA |
|7 | X1102 | COX24576I120ST | X-TAL, SMD 3.2X2.5, 24.576MHz, 12PF | 1 | EA |
|7 | X1301 | COX24576I120ST | X-TAL, SMD 3.2X2.5, 24.576MHz, 12PF | 1 | EA |
|7 | X1400 | COX25000I120ST | X-TAL, SMD 3.2X2.5, 25.000MHz, 12PF | 1 | EA |
| ..3 | | CTS3+8JFZR | SCREW | 4 | EA |
| ..3 | | CUA1A343 | CHASSIS , BOTTOM AVR1510 | 1 | EA |
| ..3 | | CWB1B003200HH | WIRE ASS'Y (3P, 2.0mm, 200mm) | 1 | EA |
| ..3 | | CWC4C4A11B080A10 | CARD , CABLE (11P,1.25mm,80mm,A,10mm) | 1 | EA |
| ..3 | | CWC4C4A23B120B10 | CARD , CABLE (23P,1.25mm,120mm,B,10mm) | 1 | EA |
| ..3 | | CWZHK3770CN90A | INLET WIRE ASS'Y | 1 | EA |
| ...4 | | CJJ8A006ZW | RECEPTACLE , AC(15A/250V,R-301,B21) | 1 | EA |
| ...4 | | CLZ9W003Z | FERRITE , RING | 1 | EA |
| ...4 | | CWZHK3770CN90 | WIRE ASS'Y (2P, 365mm, INLET) | 1 | EA |
| ..3 | F901 | KBA2C6300TLHEY | FUSE(215Series, 250V/6.3) | 1 | EA |

◎ TR Block Diagrams

Q405, Q505 HVT2SC4883A T.R., DRIVER

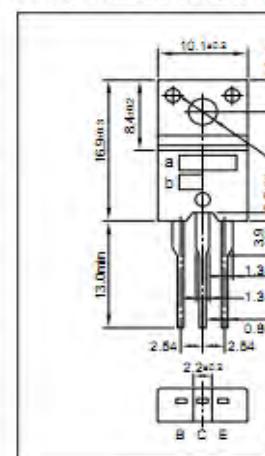
Absolute maximum ratings ($T_a=25^\circ C$)

| Symbol | Ratings | | Unit |
|-----------|------------------------|----------|------------|
| | 2SC4883 | 2SC4883A | |
| V_{CEO} | 150 | 180 | V |
| V_{CEO} | 150 | 180 | V |
| V_{CEO} | -6 | -6 | V |
| I_C | 2 | 2 | A |
| I_B | 1 | 1 | A |
| P_C | 20($T_c=25^\circ C$) | W | |
| T_J | 150 | - | $^\circ C$ |
| T_{stg} | -55 to +150 | - | $^\circ C$ |

Electrical Characteristics ($T_a=25^\circ C$)

| Symbol | Conditions | Ratings | | Unit |
|---------------|-------------------------|-----------|-----------|---------|
| | | 2SC4883 | 2SC4883A | |
| I_{CBO} | | 10max | 10max | μA |
| I_{CBO} | $V_{CB}=-6V$ | 150 | 180 | V |
| I_{CBO} | $V_{CB}=6V$ | 10max | 10max | μA |
| $V_{(BR)CEO}$ | $I_C=10mA$ | 150min | 180min | V |
| HFE | $V_{CE}=-10V, I_C=0.7A$ | 60 to 240 | 60 to 240 | |
| $V_{CE(sat)}$ | $I_C=0.7A, I_B=70mA$ | 1.0max | 1.0max | V |
| f_T | $V_{CE}=-12V, I_C=0.7A$ | 120typ | 120typ | MHz |
| C_{OB} | $V_{CB}=-10V, f=1MHz$ | 30typ | 30typ | pF |

External Dimension



Typical Switching Characteristics (Common Emitter)

| V_{CC} (V) | R_L (Ω) | I_C (A) | V_{BB1} (V) | V_{BB2} (V) | I_{B1} (mA) | I_{B2} (mA) | t_{on} (μs) | t_{sig} (μs) | f_T (μs) |
|--------------|--------------------|-----------|---------------|---------------|---------------|---------------|----------------------|-----------------------|-------------------|
| 20 | 20 | 1 | 10 | -5 | 100 | -100 | 0.5typ | 1.5typ | 0.5typ |

Q404, Q504 HVT2SA1859A T.R., DRIVER

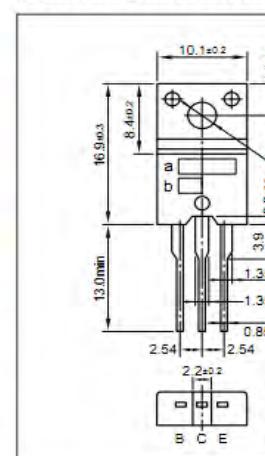
Absolute maximum ratings ($T_a=25^\circ C$)

| Symbol | 2SA1859 | 2SA1859A | Unit |
|-----------|------------------------|----------|------------|
| V_{CEO} | -150 | -180 | V |
| V_{CEO} | -150 | -180 | V |
| V_{CEO} | -6 | -6 | V |
| I_C | -2 | -2 | A |
| I_B | -1 | -1 | A |
| P_C | 20($T_c=25^\circ C$) | W | |
| T_J | 150 | - | $^\circ C$ |
| T_{stg} | -55 to +150 | - | $^\circ C$ |

Electrical Characteristics ($T_a=25^\circ C$)

| Symbol | Conditions | 2SA1859 | | 2SA1859A | | Unit |
|---------------|--------------------------|-----------|-----------|-----------|-----------|---------|
| | | 2SA1859 | 2SA1859A | 2SA1859 | 2SA1859A | |
| I_{CBO} | | -10max | -10max | -10max | -10max | μA |
| I_{CBO} | $V_{CB}=-6V$ | -150 | -180 | -150 | -180 | V |
| I_{CBO} | $V_{CB}=6V$ | -10max | -10max | -10max | -10max | μA |
| $V_{(BR)CEO}$ | $I_C=-10mA$ | -150min | -180min | -150min | -180min | V |
| HFE | $V_{CE}=-10V, I_C=-0.7A$ | 60 to 240 | 60 to 240 | 60 to 240 | 60 to 240 | |
| $V_{CE(sat)}$ | $I_C=-0.7A, I_B=-70mA$ | -1.0max | -1.0max | -1.0max | -1.0max | V |
| f_T | $V_{CE}=-12V, I_C=0.7A$ | 60typ | 60typ | 60typ | 60typ | MHz |
| C_{OB} | $V_{CB}=-10V, f=1MHz$ | 30typ | 30typ | 30typ | 30typ | pF |

External Dimensions



Typical Switching Characteristics (Common Emitter)

| V_{CC} (V) | R_L (Ω) | I_C (A) | V_{BB1} (V) | V_{BB2} (V) | I_{B1} (mA) | I_{B2} (mA) | t_{on} (μs) | t_{sig} (μs) | f_T (μs) |
|--------------|--------------------|-----------|---------------|---------------|---------------|---------------|----------------------|-----------------------|-------------------|
| -20 | 20 | -1 | -10 | 5 | -100 | 100 | 0.5typ | 1.0typ | 0.5typ |

Q403, Q503 HVT2SA1492 T.R., POWER

Absolute maximum ratings ($T_a=25^\circ C$)

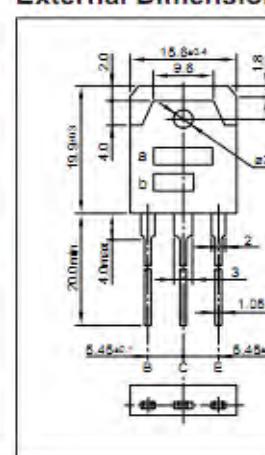
| Symbol | 2SA1492 | Unit |
|-----------|-------------------------|------------|
| V_{CEO} | -180 | V |
| V_{CEO} | -180 | V |
| V_{CEO} | -6 | V |
| I_C | -15 | A |
| I_B | -4 | A |
| P_C | 130($T_c=25^\circ C$) | W |
| T_J | 150 | $^\circ C$ |
| T_{stg} | -55 to +150 | $^\circ C$ |

Electrical Characteristics ($T_a=25^\circ C$)

| Symbol | Conditions | 2SA1492 | Unit |
|---------------|-------------------------|---------|---------|
| I_{CBO} | $V_{CB}=-180V$ | -100max | μA |
| I_{CBO} | $V_{CB}=-6V$ | -100max | μA |
| $V_{(BR)CEO}$ | $I_C=-50mA$ | -180min | V |
| HFE | $V_{CE}=-4V, I_C=3A$ | 50min* | |
| $V_{CE(sat)}$ | $I_C=5A, I_B=0.5A$ | -2.0max | V |
| f_T | $V_{CE}=-12V, I_C=0.5A$ | 20typ | MHz |
| C_{OB} | $V_{CB}=-10V, f=1MHz$ | 500typ | pF |

*HFE Rank O(50 to 100), P(70 to 140), Y(90 to 180)

External Dimensions



Typical Switching Characteristics (Common Emitter)

| V_{CC} (V) | R_L (Ω) | I_C (A) | V_{BB1} (V) | V_{BB2} (V) | I_{B1} (A) | I_{B2} (A) | t_{on} (μs) | t_{sig} (μs) | f_T (μs) |
|--------------|--------------------|-----------|---------------|---------------|--------------|--------------|----------------------|-----------------------|-------------------|
| -40 | 4 | -10 | -10 | 5 | -1 | 1 | 0.6typ | 0.9typ | 0.2typ |

Q402, Q502 HVT2SC3856 T.R., POWER

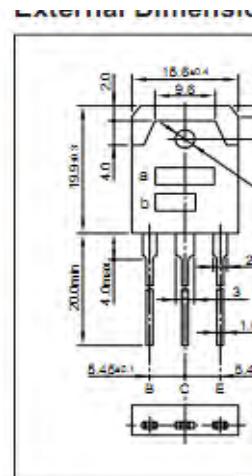
External Dimensions



| Absolute maximum ratings (Ta=25°C) | | |
|------------------------------------|---------------------------|------|
| Symbol | 2SC3856 | Unit |
| V _{CBO} | 200 | V |
| V _{CEO} | 180 | V |
| V _{EBO} | 6 | V |
| I _C | 15 | A |
| I _B | 4 | A |
| P _C | 130(T _c =25°C) | W |
| T _j | 150 | °C |
| T _{sig} | -55 to +150 | °C |

| Electrical Characteristics (Ta=25°C) | | |
|--------------------------------------|--|-----------|
| Symbol | Conditions | 2SC3856 |
| I _{CEO} | V _{CB} =200V | 100max μA |
| I _{EBO} | V _{EB} =6V | 100max μA |
| V _{(BR)CEO} | I _C =50mA | 180min V |
| h _{FE} | V _{CE} =4V, I _C =3A | 50min* |
| V _{CE(sat)} | I _C =5A, I _B =0.5A | 2.0max V |
| f _T | V _{CE} =12V, I _C =0.5A | 20typ MHz |
| C _{oss} | V _{CB} =10V, f=1MHz | 300typ pF |

*h_{FE} Rank O(50 to 100), P(70 to 140), Y(90 to 180)



Typical Switching Characteristics (Common Emitter)

| V _{CC} (V) | R _L (Ω) | I _C (A) | V _{BB1} (V) | V _{BB2} (V) | I _{B1} (A) | I _{B2} (A) | t _{on} (μs) | t _{sig} (μs) | t _f (μs) |
|---------------------|--------------------|--------------------|----------------------|----------------------|---------------------|---------------------|----------------------|-----------------------|---------------------|
| 40 | 4 | 10 | 10 | -5 | 1 | -1 | 0.5typ | 1.8typ | 0.6typ |

Q401, Q501 HVTKTC3114A T.R , BIAS

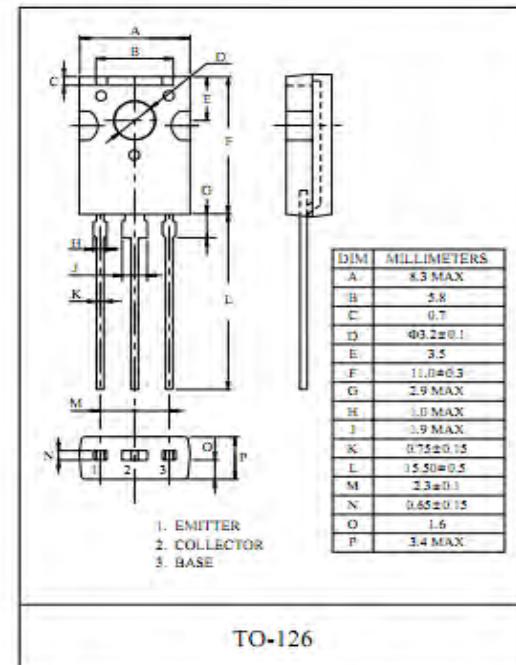
GENERAL PURPOSE APPLICATION,
SWITCHING APPLICATION.

FEATURE

- High DC Current Gain : h_{FE}=600~3600.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|-----------|------|
| Collector-Base Voltage | V _{CBO} | 50 | V |
| Collector-Emitter Voltage | V _{CEO} | 50 | V |
| Emitter-Base Voltage | V _{EBO} | 5 | V |
| Collector Current | I _C | 150 | mA |
| Base Current | I _B | 30 | mA |
| Collector Power Dissipation | P _C | 1.5 | W |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature Range | T _{sig} | -55 ~ 150 | °C |



Q406,Q506 HVTKTD2061Y T.R , DRIVE

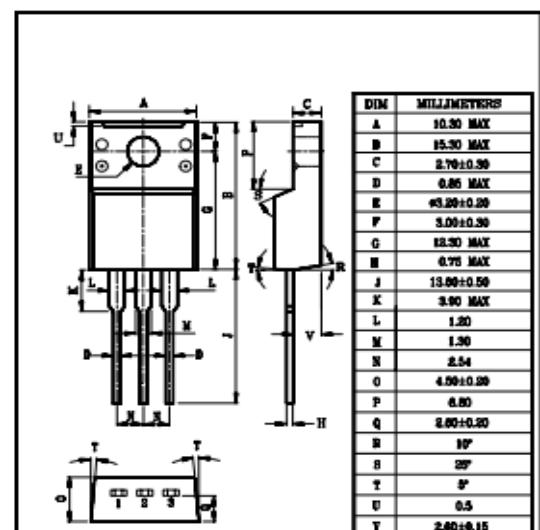
HIGH VOLTAGE APPLICATION
TV, MONITOR VERTICAL OUTPUT APPLICATION
DRIVER STAGE APPLICATION
COROR TV CLASS B SOUND OUTPUT APPLICATION

FEATURES

- High Breakdown Voltage : V_{CEO}=180V(Min.)
- High Transition Frequency : f_T=100MHz(Typ.)
- High Current : I_{C(max)}=2A
- Complementary to KTB1369

MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------|------------------|--------|------|
| Collector-Base Voltage | V _{CBO} | 200 | V |
| Collector-Emitter Voltage | V _{CEO} | 180 | V |



| | | | |
|---|-----------|---------|------------------|
| Emitter-Base Voltage | V_{EB0} | 5 | V |
| Collector Current | I_C | 2 | A |
| Base Current | I_B | 0.2 | A |
| Collector Power Dissipation ($T_c=25^\circ\text{C}$) | P_C | 20 | W |
| Junction Temperature | T_J | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ\text{C}$ |

1. BASE
2. COLLECTOR
3. Emitter

TO-220IS

Q407, Q507 HVTKTB1369Y T.R , DRIVE

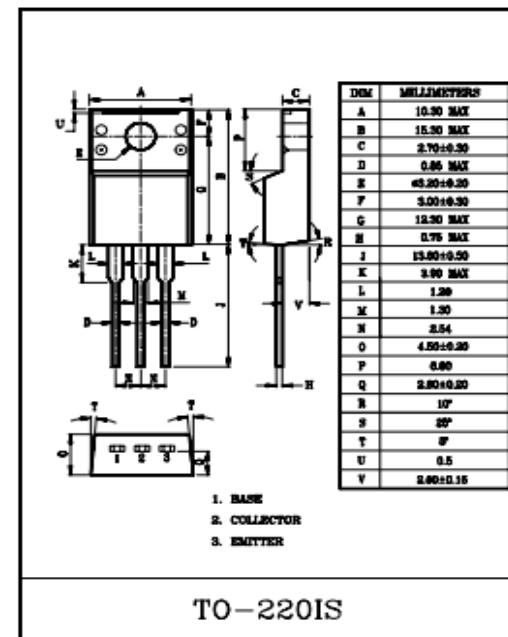
HIGH VOLTAGE APPLICATION
TV, MONITOR VERTICAL OUTPUT APPLICATION
DRIVER STAGE APPLICATION
COROR TV CLASS B SOUND OUTPUT APPLICATION

FEATURES

- High Breakdown Voltage : $V_{CEO}=-180\text{V}(\text{Min.})$
- High Transition Frequency : $f_T=100\text{MHz}(\text{Typ.})$
- High Current : $I_{C(\text{max})}=-2\text{A}$
- Complementary to KTD2061

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|-----------|---------|------------------|
| Collector-Base Voltage | V_{CBO} | -200 | V |
| Collector-Emitter Voltage | V_{CEO} | -180 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -2 | A |
| Base Current | I_B | -0.2 | A |
| Collector Power Dissipation ($T_c=25^\circ\text{C}$) | P_C | 20 | W |
| Junction Temperature | T_J | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ\text{C}$ |

**HS96 CVT10N65KL FET, 10N65K, N-CH, TO-220F, UTC****10A, 650V N-CHANNEL POWER MOSFET****■ DESCRIPTION**

The UTC 10N65K is an N-channel Power MOSFET using UTC's advanced technology to provide customers a minimum on-state resistance and superior switching performance, etc.

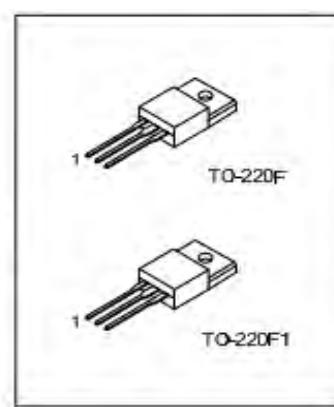
The UTC 10N65K is generally applied in high efficient DC to DC converters, PWM motor controls and bridge circuits, etc.

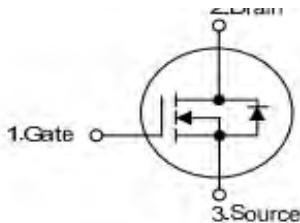
■ FEATURES

- * $R_{DS(on)}=1.20 @ V_{GS}=10\text{V}, I_D=5\text{A}$
- * Low Gate Charge (Typical 44nC)
- * Low C_{oss} (Typical 18 pF)
- * High Switching Speed
- * Improved dv/dt capability

■ SYMBOL

2 Drain



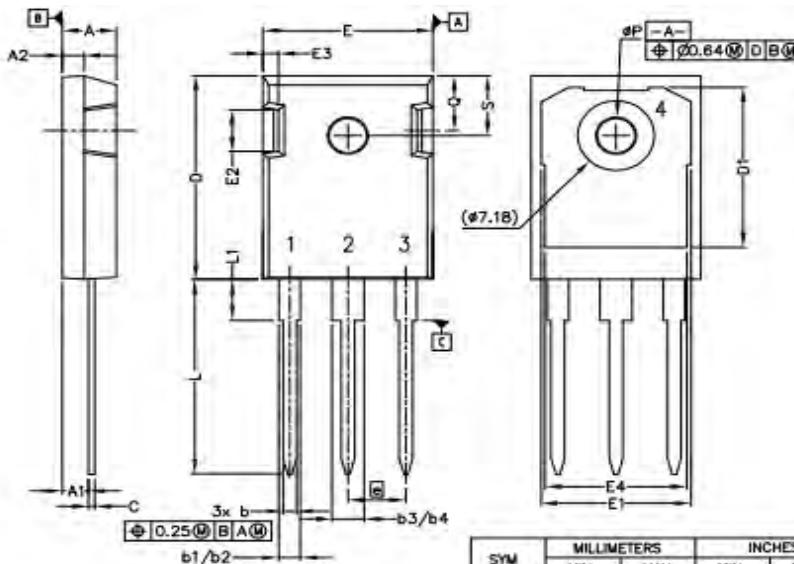


■ ORDERING INFORMATION

| Ordering Number | Lead Free | Halogen Free | Package | Pin Assignment | | | Packing |
|-----------------|-----------|---------------|----------|----------------|---|---|---------|
| | | | | 1 | 2 | 3 | |
| 10N65KL-TF3-T | | 10N65KG-TF3-T | TO-220F | G | D | S | Tube |
| 10N65KL-TF1-T | | 10N65KG-TF1-T | TO-220F1 | G | D | S | Tube |

Note: Pin Assignment: G: Gate D: Drain S: Source

HS91 CVTSPW17N80C3 F.E.T , SPW17N80C3 (800V/17A, PG-TO247-3)



NOTE:
1. ALL METAL SURFACES-TIN PLATED EXCEPT AREA OF CNT.
2. DESIGNING & TOLERANCING CONFORM TO:
ASME Y14.5M-1994
3. ALL DIMENSIONS ARE IN MILLIMETERS;
ANGLES ARE IN DEGREES
4. THIS DRAWING WILL MEET ALL DIMENSION REQUIREMENTS
OF JISDC DRAWINGS TO-D7 AD.

- 1 - GATE
- 2 - DRAIN (COLLECTOR)
- 3 - SOURCE (EMITTER)
- 4 - DRAIN (COLLECTOR)

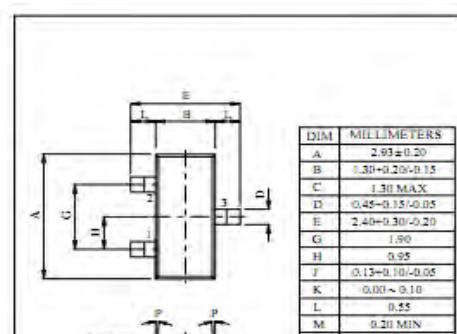
| SYM | MILLIMETERS | | INCHES | |
|-----|-------------|-------|---------|------|
| | MIN | MAX | MIN | MAX |
| A | 4.83 | 5.21 | .190 | .205 |
| A1 | 2.29 | 2.54 | .090 | .100 |
| A2 | .91 | 2.16 | .035 | .085 |
| b | 1.07 | 1.33 | .042 | .052 |
| b1 | .91 | 2.41 | .035 | .095 |
| b2 | .91 | 2.16 | .035 | .085 |
| b3 | 2.87 | 3.38 | .113 | .133 |
| b4 | 2.87 | 3.13 | .113 | .123 |
| c | 0.55 | 0.68 | .022 | .027 |
| D | 20.80 | 21.10 | .819 | .831 |
| D1 | 16.25 | 17.65 | .640 | .695 |
| D2 | 0.95 | 1.25 | .037 | .049 |
| E | 15.75 | 16.13 | .620 | .633 |
| E1 | 13.10 | 14.15 | .516 | .557 |
| E2 | 3.68 | 3.80 | .145 | .201 |
| E3 | 1.00 | 1.90 | .039 | .075 |
| E4 | 12.38 | 13.43 | .487 | .529 |
| e | 5.44 BSC | | 214 BSC | |
| N | 3 | | 3 | |
| L | 19.81 | 20.32 | .780 | .800 |
| L1 | 4.10 | 4.40 | .161 | .173 |
| oP | 3.51 | 3.65 | .138 | .144 |
| Q | 5.49 | 6.00 | .216 | .236 |
| S | 6.04 | 6.30 | .238 | .248 |

Q1407 HVTKTA1504SYRTK T.R , CHIP , SOT-23

GENERAL PURPOSE APPLICATION. SWITCHING APPLICATION

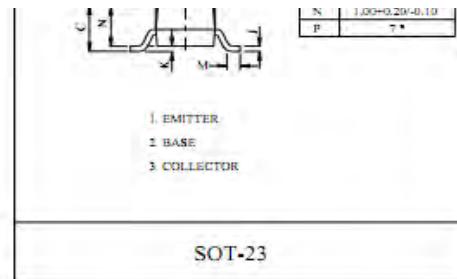
FEATURES

- Excellent h_{FE} Linearity : h_{FE}(0.1mA)/h_{FE}(2mA)=0.95(Typ.).
 - Low Noise : NF=1dB(Typ.), 10dB(Max.).
 - Complementary to KTC3875S.



MAXIMUM RATING ($T_a=25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|-----------|------|
| Collector-Base Voltage | V_{CBO} | -50 | V |
| Collector-Emitter Voltage | V_{CEO} | -50 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -150 | mA |
| Base Current | I_B | -30 | mA |
| Collector Power Dissipation | P_C | 150 | mW |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{sig} | -55 ~ 150 | °C |



Q1408 HVTKTC3875SYRTK T.R , CHIP , SOT-23

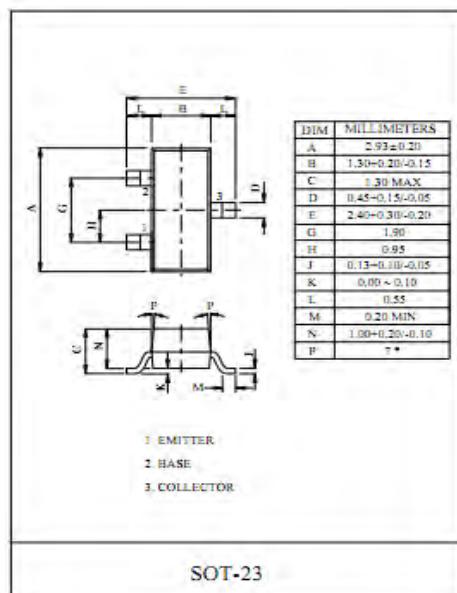
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- Excellent h_{FE} Linearity
 $h_{FE}(0.1\text{mA})/h_{FE}(2\text{mA})=0.95$ (Typ.).
- High h_{FE} : $h_{FE}=70 \sim 700$.
- Low Noise : NF=1dB(Typ.), 10dB(Max.).
- Complementary to KTA1504S.

MAXIMUM RATING ($T_a=25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|-----------|------|
| Collector-Base Voltage | V_{CBO} | 60 | V |
| Collector-Emitter Voltage | V_{CEO} | 50 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 150 | mA |
| Base Current | I_B | 30 | mA |
| Collector Power Dissipation | P_C | 150 | mW |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{sig} | -55 ~ 150 | °C |



Q1511,Q1512,Q1511,Q1512,Q1517 CVTMMBT5551 High Voltage NPN Transistors(SOT-23)

NPN Silicon Epitaxial Planar Transistors
for high voltage amplifier applications.



1. Base 2. Emitter 3. Collector

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

SOT-23 Plastic Package

| Parameter | Symbol | Value | Unit |
|---------------------------|------------------|-------------|------|
| Collector Emitter Voltage | V_{CEO} | 160 | V |
| Collector Base Voltage | V_{CBO} | 180 | V |
| Emitter Base Voltage | V_{EBO} | 6 | V |
| Collector Current | I_C | 600 | mA |
| Power Dissipation | P_{tot} | 200 | mW |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_S | -55 to +150 | °C |

Q1515,Q937,Q940 CTVMMBT5401 High Voltage PNP Transistors(SOT-23)

PNP Silicon Epitaxial Planar Transistor

for high voltage amplifier applications

1. Base 2. Emitter 3. Collector
SOT-23 Plastic Package**Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)**

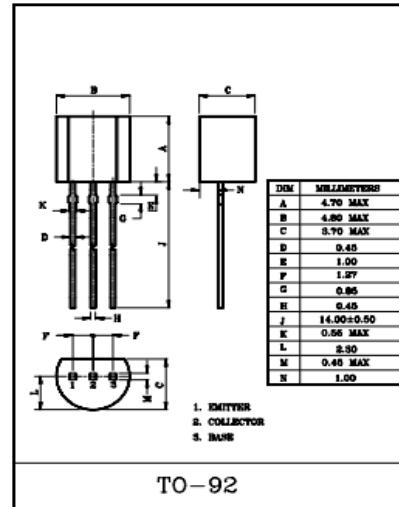
| Parameter | Symbol | Value | Unit |
|------------------------------|------------|-------------|------------------|
| Collector Base Voltage | $-V_{CEO}$ | 160 | V |
| Collector Emitter Voltage | $-V_{CEO}$ | 150 | V |
| Emitter Base Voltage | $-V_{EBO}$ | 5 | V |
| Collector Current Continuous | I_C | 600 | mA |
| Power Dissipation | P_{tot} | 200 | mW |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

Q251, Q911, Q912, Q913 HVTKTA1271YT HIGH CURRENT APPLICATION**HIGH CURRENT APPLICATION.****FEATURES**

- High h_{FE} : $h_{FE}=100\sim 320$.
- Complementary to KTC3203.

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

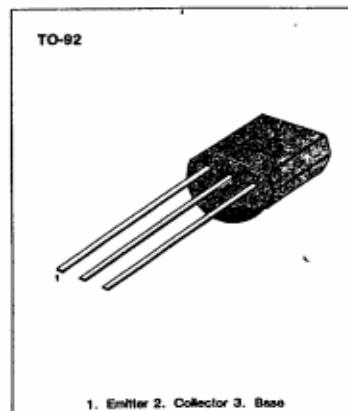
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------------------|
| Collector-Base Voltage | V_{CBO} | -35 | V |
| Collector-Emitter Voltage | V_{CEO} | -30 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -800 | mA |
| Emitter Current | I_E | 800 | mA |
| Collector Power Dissipation | P_C | 625 | mW |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ\text{C}$ |

**Q400,Q413,Q415,Q416,Q417,Q500,Q513,Q515,Q516,Q517
CVTKSC1845FTA NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD****AUDIO FREQUENCY LOW NOISE AMPLIFIER**

- Complement to KSA992

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

| Characteristic | Symbol | Rating | Unit |
|---------------------------|-----------|---------|------------------|
| Collector-Base Voltage | V_{CBO} | 120 | V |
| Collector-Emitter Voltage | V_{CEO} | 120 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 50 | mA |
| Base Current | I_B | 10 | mA |
| Collector Dissipation | P_C | 500 | mW |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | -55~150 | $^\circ\text{C}$ |

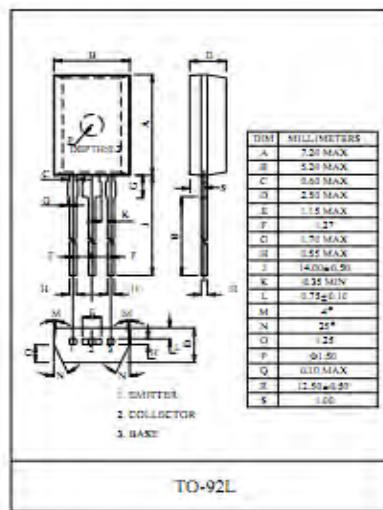


Q408,Q410,Q508,Q510 HVTKTA1024YT**HIGH VOLTAGE APPLICATION.****FEATURES.**

- High Voltage : $V_{CEO} \geq 150V$.
- Low Output Capacitance : $C_{ob} = 5.0\text{pF}(\text{Max.})$.
- High Transition Frequency : $f_T = 120\text{MHz}(\text{Typ.})$.
- Complementary to KTC3206.

MAXIMUM RATING (Ta=25°C)

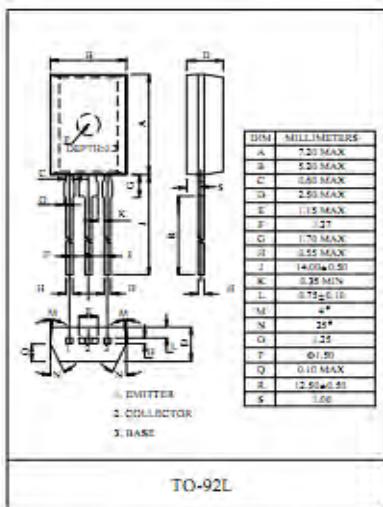
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage | V_{CBO} | -150 | V |
| Collector-Emitter Voltage | V_{CEO} | -150 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -50 | mA |
| Emitter Current | I_E | -50 | mA |
| Base Current | I_B | -5 | mA |
| Collector Power Dissipation | P_C | 1 | W |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{stg} | -55~150 | °C |

**Q409,Q411,Q509,Q511 HVTKTC3206YAT****BLACK AND WHITE TV VIDEO OUTPUT APPLICATION.****HIGH VOLTAGE SWITCHING APPLICATION.****FEATURES.**

- High Breakdown Voltage : $V_{CEO} = 150V(\text{Min.})$.
- Low Output Capacitance : $C_{ob} = 5.0\text{pF}(\text{Max.})$.
- High Transition Frequency : $f_T = 120\text{MHz}(\text{Typ.})$.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage | V_{CBO} | 200 | V |
| Collector-Emitter Voltage | V_{CEO} | 150 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 50 | mA |
| Emitter Current | I_E | -50 | mA |
| Base Current | I_B | 5 | mA |
| Collector Power Dissipation | P_C | 1 | W |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{stg} | -55~150 | °C |

**Q412,Q414,Q512,Q514 CVTKSA992FTA PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD****Audio Frequency Low Noise Amplifier**

- Complement to KSC1845

**PNP Epitaxial Silicon Transistor****Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted**

| Symbol | Parameter | Ratings | Units |
|-----------|---------------------------|---------|-------|
| V_{CBO} | Collector-Base Voltage | -120 | V |
| V_{CEO} | Collector-Emitter Voltage | -120 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current | -50 | mA |

| | | | |
|-----------|-----------------------------|-----------|----|
| I_B | Base Current | +10 | mA |
| P_C | Collector Power Dissipation | 500 | mW |
| T_J | Junction Temperature | 150 | °C |
| T_{STG} | Storage Temperature | +55 ~ 150 | °C |

Q451, Q452 CVTKTC1027YT

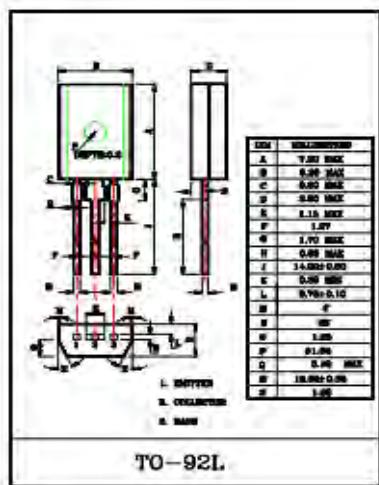
(0.6V) VOLTAGE APPLICATION.

FEATURE

- Complementary to KTA1029

MAXIMUM RATINGS(Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNITS |
|-----------------------------|-----------|-----------|-------|
| Collector-Base Voltage | V_{CEO} | 120 | V |
| Collector-Emitter Voltage | V_{CEO} | 120 | V |
| Emitter-Base Voltage | V_{BE} | -0.5 | V |
| Collector Current | I_C | 800 | mA |
| Emitter Current | I_E | -800 | mA |
| Collector Power Dissipation | P_C | 1 | W |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{STG} | +55 ~ 150 | °C |



Q532,Q536,Q533,Q534 HVTKRA107S T.R , CHIP , SOT-23

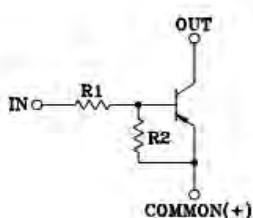
SWITCHING APPLICATION.

INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

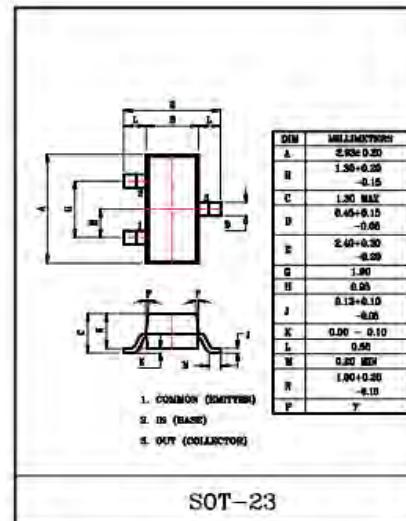
FEATURES

- With Built-in Bias Resistors
- Simplify Circuit Design
- Reduce a Quantity of Parts and Manufacturing Process

EQUIVALENT CIRCUIT



| BIAS RESISTOR VALUES | | |
|----------------------|--------|--------|
| TYPE NO. | R1(kΩ) | R2(kΩ) |
| KRA107S | 10 | 47 |
| KRA108S | 22 | 47 |
| KRA109S | 47 | 22 |



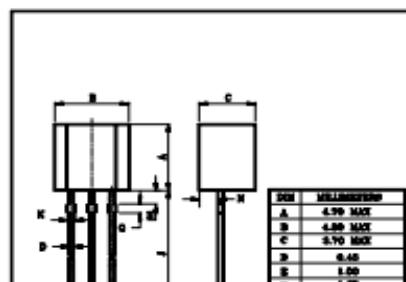
Q601 HVTKTA1266YT

GENERAL PURPOSE APPLICATION. SWITCHING APPLICATION.

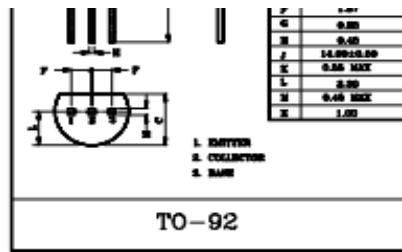
FEATURES

- Excellent h_{FE} Linearity
: $h_{FE}(2)=80$ (Typ.) at $V_{CE}=-6V$, $I_C=-150mA$
: $h_{FE}(I_C=0.1mA)/h_{FE}(I_C=2mA)=0.95$ (Typ.).
- Low Noise : NF=1dB(Typ.), at $f=1kHz$.
- Complementary to KTC3198.

MAXIMUM RATINGS (Ta=25°C)



| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage | V_{CBO} | -50 | V |
| Collector-Emitter Voltage | V_{CEO} | -50 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -150 | mA |
| Base Current | I_B | -50 | mA |
| Collector Power Dissipation | P_C | 625 | mW |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{STG} | -55~150 | °C |



Q902,Q903,Q914 HVTKA708YT

KSA708

Low Frequency Amplifier & Medium Speed Switching

- Complement to KSC1008
- Collector-Base Voltage : $V_{CBO} = -80V$
- Collector Power Dissipation : $P_C = 800mW$
- Suffix "-C" means Center Collector (1. Emitter 2. Collector 3. Base)



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25^{\circ}\text{C}$ unless otherwise noted

| Symbol | Parameter | Ratings | Units |
|-----------|-----------------------------|-----------|-------|
| V_{CBO} | Collector-Base Voltage | -80 | V |
| V_{CEO} | Collector-Emitter Voltage | -60 | V |
| V_{EBO} | Emitter-Base Voltage | -8 | V |
| I_C | Collector Current | -700 | mA |
| P_C | Collector Power Dissipation | 800 | mW |
| T_J | Junction Temperature | 150 | °C |
| T_{STG} | Storage Temperature | -55 ~ 150 | °C |

Q921 CVTKN2907AS T.R , KN2907AS, PNP, SOT-23, KEC

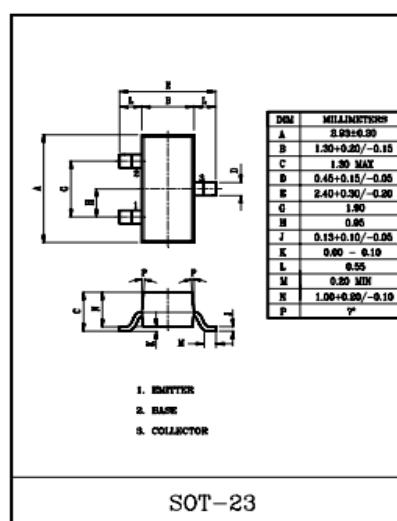
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- Low Leakage Current : $I_{CE(sat)} = -50\text{nA}(\text{Max.})$; $V_{CE} = -30\text{V}$, $V_{EB} = -0.5\text{V}$.
- Low Saturation Voltage : $V_{CE(sat)} = -0.4\text{V}(\text{Max.})$; $I_C = -150\text{mA}$, $I_B = -15\text{mA}$.
- Complementary to KN2222S/AS.

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$)

| CHARACTERISTIC | SYMBOL | RATING | | UNIT |
|-----------------------------|-----------|---------|----------|------|
| | | KN2907S | KN2907AS | |
| Collector-Base Voltage | V_{CBO} | -60 | | V |
| Collector-Emitter Voltage | V_{CEO} | -40 | -60 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | | V |
| Collector Current | I_C | -600 | | mA |
| Collector Power Dissipation | P_C | 150 | | mW |
| | P_{C*} | 350 | | |
| Junction Temperature | T_J | 150 | | °C |



| | | | |
|---------------------------|------------------|---------|----|
| Storage Temperature Range | T _{stg} | -55~150 | °C |
|---------------------------|------------------|---------|----|

Q926 CVT2SC6046T1121W T.R (NPN, SOT-23, ISAHAYA)

DESCRIPTION

2SC6046 is a silicon NPN epitaxial type transistor designed with high collector current, low V_{ce(sat)}.

FEATURE

- High collector current
I_{C(MAX)}=800mA
- Low collector to emitter saturation voltage
V_{ce(sat)}<0.3V_{DC}(I_C=150mA, I_B=15mA)

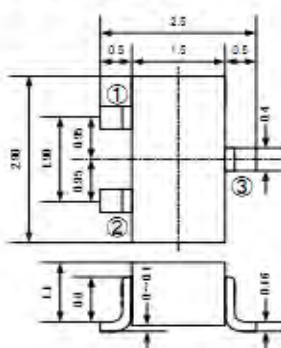
APPLICATION

For switching application, small type motor drive application.

MAXIMUM RATINGS(Ta=25°C)

| 記号 | 項目 | 定格値 | 単位 |
|------------------|------------------------------|----------|----|
| V _{CEO} | Collector to Emitter voltage | 40 | V |
| V _{CBO} | Collector to Base voltage | 75 | V |
| V _{EBO} | Emitter to Base voltage | 8 | V |
| I _C | Collector current | 600 | mA |
| P _D | Collector dissipation | 200 | mW |
| T _J | Junction temperature | +150 | °C |
| T _{stg} | Storage temperature | -55~+150 | °C |

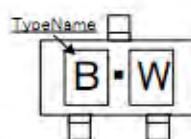
OUTLINE DRAWING



TERMINAL CONNECTOR

- | | |
|-------------|--------------|
| ①:BASE | EIAJ:SO-59 |
| ②:EMITTER | JEDEC:TO-236 |
| ③:COLLECTOR | Resemblance |

MARKING



CVTRT1N141C T.R, RT1N141C(10K-10K)

DESCRIPTION

RT1N141X is a one chip transistor with built-in bias resistor. PNP type is RT1P141X.

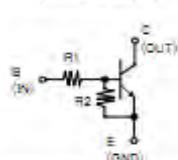
FEATURE

- Built-in bias resistor (R1=10kΩ, R2=10kΩ).

APPLICATION

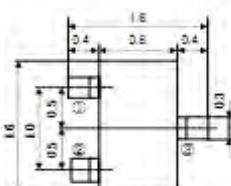
Inverted circuit, switching circuit, interface circuit, driver circuit.

Equivalent circuit

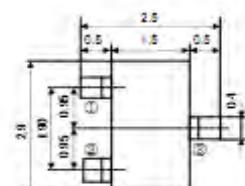


OUTLINE DRAWING

RT1N141U



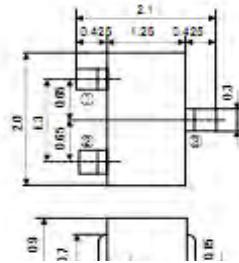
RT1N141C



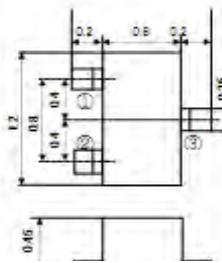
JEITA:—
JEDEC:—
Terminal Connector
①:Base
②:Emitter
③:Collector

JEITA: SO-59
JEDEC: Similar to TO-236
Terminal Connector
①:Base
②:Emitter
③:Collector

RT1N141M



RT1N141T





JEITA:—
JEDEC:—
Terminal Connector
①: Emitter
②: Collector
③: Base



JEITA: SO-70
JEDEC:—
Terminal Connector
①: Base
②: Emitter
③: Collector



JEITA:—
JEDEC:—
Terminal Connector
①: Base
②: Emitter
③: Collector

CVTRT1N144C T.R,RT1N144C(10K-47K)

DESCRIPTION

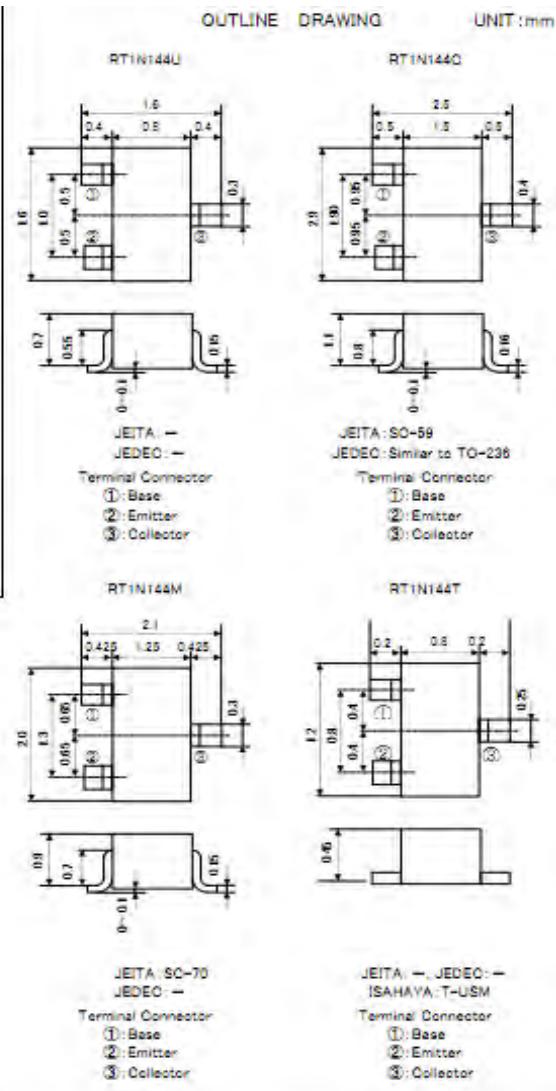
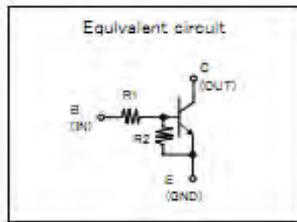
RT1N144X is a one chip transistor with built-in bias resistor, PNP type is RT1P144X.

FEATURE

- Built-in bias resistor ($R_1=10k\Omega$, $R_2=47k\Omega$).

APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit.



CVTRT1P141C T.R,RT1P141C(10K-10K)

DESCRIPTION

RT1P141X is a one chip transistor with built-in bias resistor, NPN type is RT1N141X.

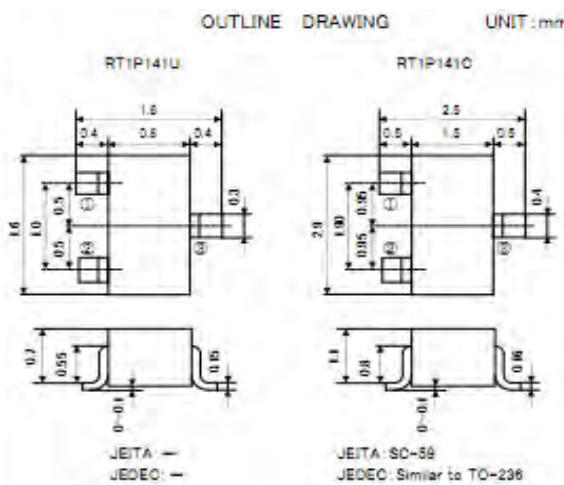
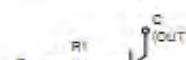
FEATURE

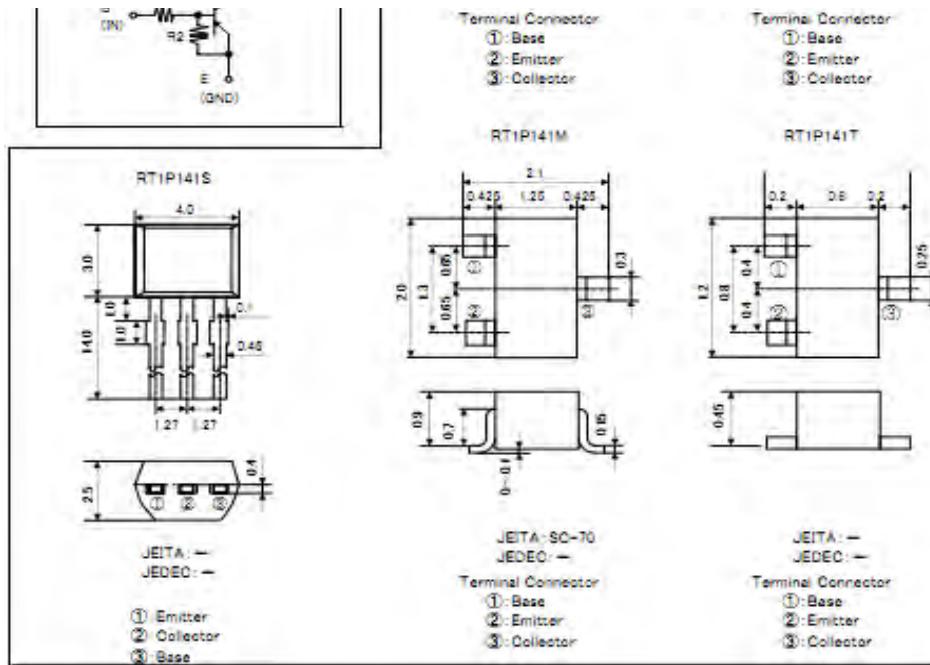
- Built-in bias resistor ($R_1=10k\Omega$, $R_2=10k\Omega$).

APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit.

Equivalent circuit





CVTRT1P144C T.R,RT1P144C(10K-47K)

DESCRIPTION

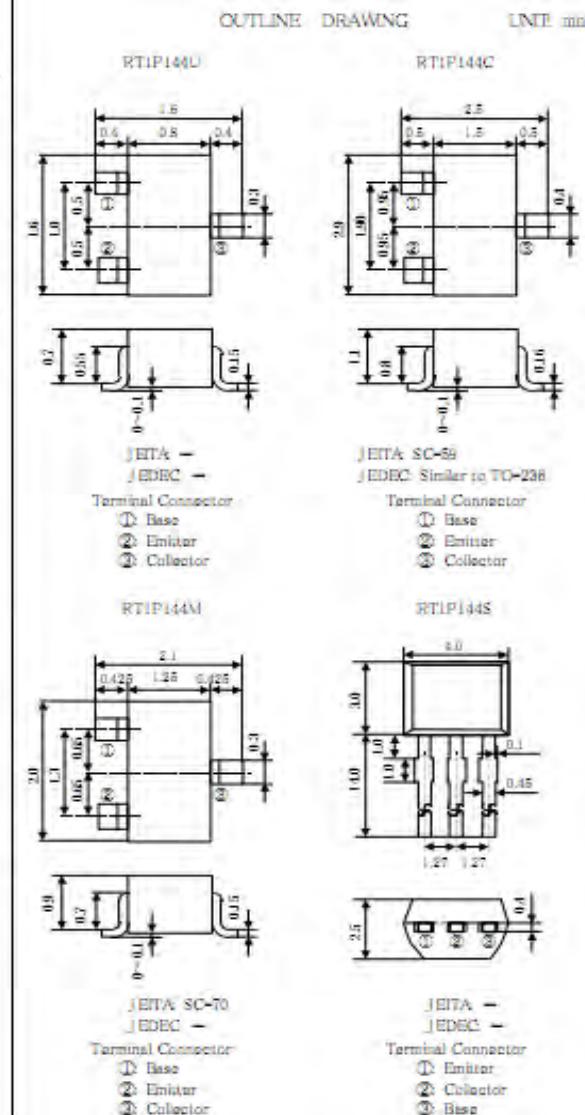
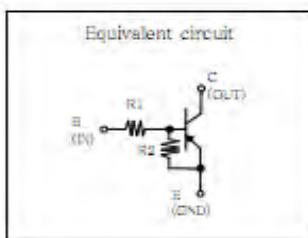
RTIP144X is a one chip transistor with built-in bias resistor,NPN type is RT1N144X.

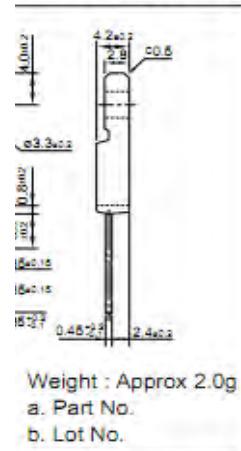
FEATURE

- Built-in bias resistor ($R_1 = 10\text{k}\Omega, R_2 = 47\text{k}\Omega$).

APPLICATION

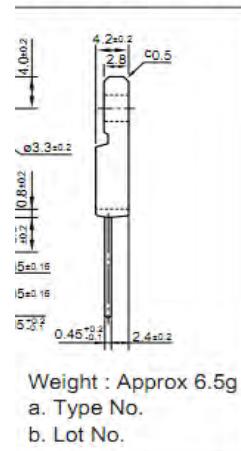
Inverted circuit,switching circuit,interface circuit,driver circuit.



1s FM20(TO220F)

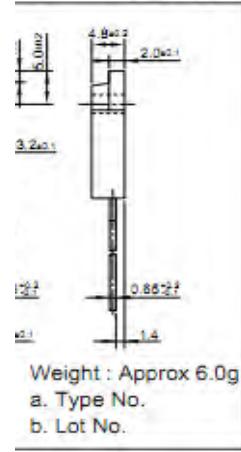
Weight : Approx 2.0g

- a. Part No.
- b. Lot No.

s FM20(TO220F)

Weight : Approx 6.5g

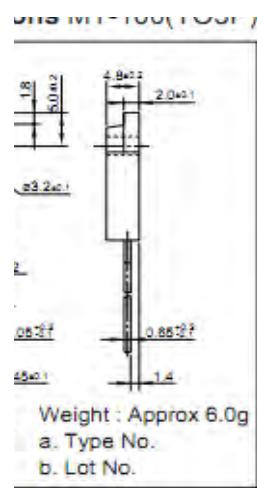
- a. Type No.
- b. Lot No.

ns MT-100(TO3P)

Weight : Approx 6.0g

- a. Type No.
- b. Lot No.

ans MT-100(TO3P)



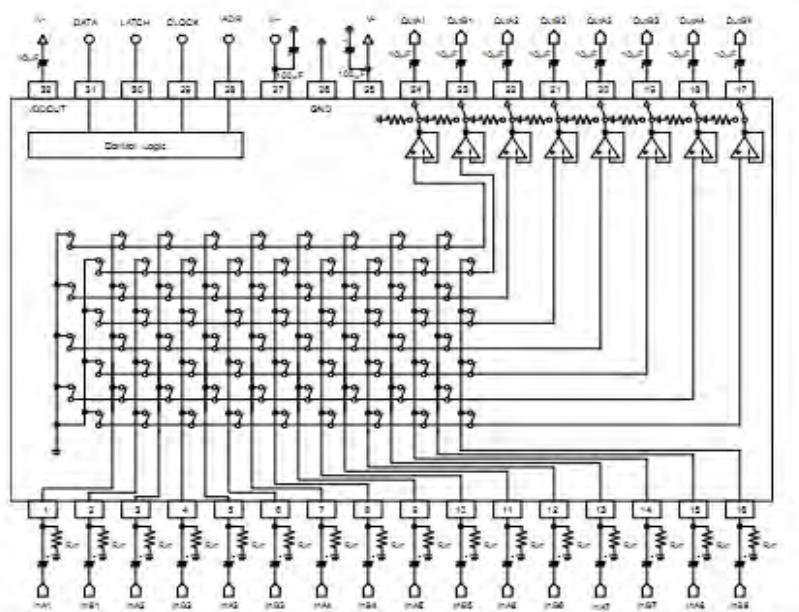
◎ IC Block Diagrams

IC10 CVINJW1112V AUDIO SELECTOR(8-IN 4-OUT,SSOP-32P)

■ FEATURES

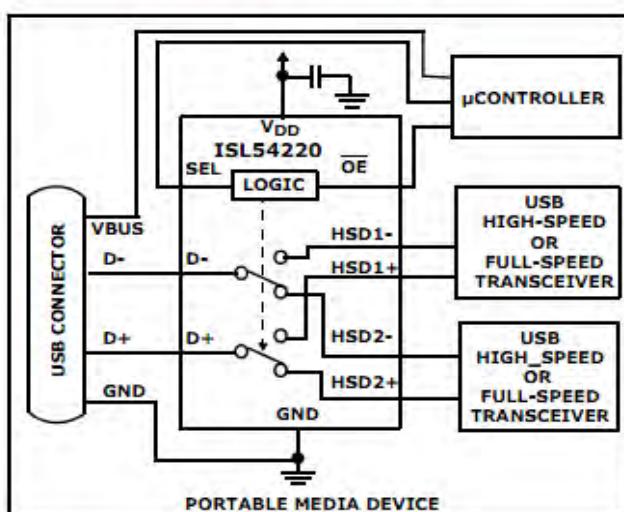
- Operating Voltage ± 4.5 to ± 7.5 V
- 8-Input, 4-Output Stereo Audio Selector
- Operating Current 14mA typ.
- Low On Resistance Output Switch On Resistance : 15Ω typ.
- Low Distortion 0.0007% typ.
- Low Output Noise -119dBV typ.
- Low Crosstalk 120dB typ.
- Channel Separation 116dB typ.
- 3-Wired Serial Control
- Bi-CMOS Technology
- Package Outline SSOP32

■ BLOCK DIAGRAM

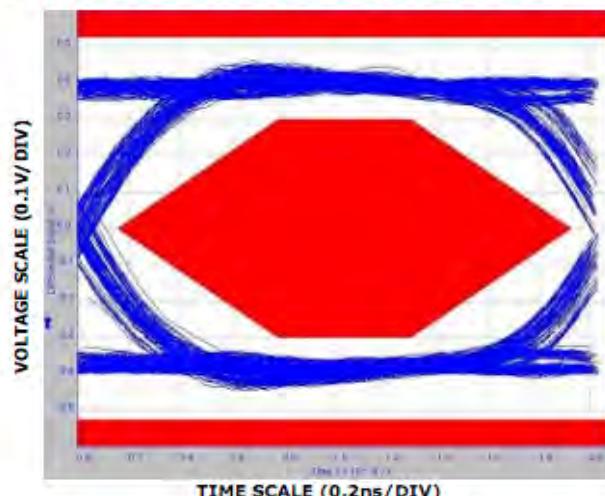


IC1100 CVIISL54220IUZ-T USB2.0 Multiplexer(TQFN-10P)

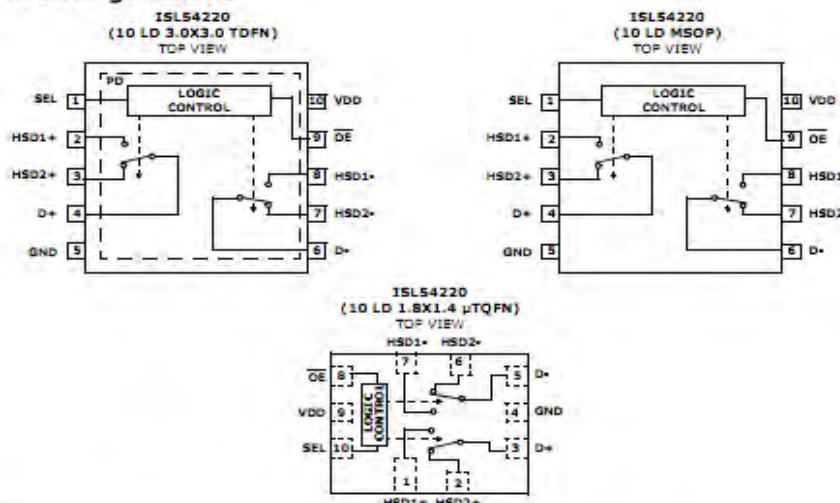
Application Block Diagram



USB 2.0 HS Eye Pattern With Switches In The Signal Path



Pin Configurations



NOTE:

- Switches shown for SEL = Logic "1" and DE = Logic "0".

Truth Table

| DE | SEL | HSD1+, HSD1+ | HSD2+, HSD2+ |
|----|-----|--------------|--------------|
| 0 | 0 | ON | OFF |
| 0 | 1 | OFF | ON |
| 1 | X | OFF | OFF |

Logic "0" when $\leq 0.5V$, Logic "1" when $\geq 1.4V$ with a 2.7V to 3.6V Supply.

Pin Descriptions

| TDFN | MSOP | µTQFN | NAME | FUNCTION |
|------|------|-------|-------|--|
| 10 | 10 | 9 | VDD | Power Supply (2.7V to 5.5V) |
| 1 | 1 | 10 | SEL | Select Logic Control Input |
| 2 | 2 | 1 | HSD1+ | USB Data Port (Channel 1 Positive Input) |
| 3 | 3 | 2 | HSD2+ | USB Data Port (Channel 2 Positive Input) |
| 4 | 4 | 3 | D+ | USB Data Common Positive Port |
| 5 | 5 | 4 | GND | Ground Connection |
| 6 | 6 | 5 | D- | USB Data Common Negative Port |
| 7 | 7 | 6 | HSD2- | USB Data Port (Channel 2 Negative Input) |
| 8 | 8 | 7 | HSD1- | USB Data Port (Channel 1 Negative Input) |
| 9 | 9 | 8 | DE | Bus Switch Enable |
| PD | - | - | PD | Thermal Pad, Tie to Ground or Float |

IC1101 CVIMFI337S3959-HK Apple iPod Authentication coprocessor 2.0c

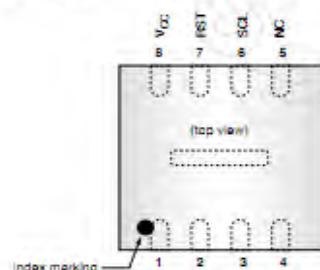
CP Signals and Pinouts

The 2.0C CP chip signal descriptions are given in Table 2-1 and its pinouts are shown in Figure 2-1.

Table 2-1 CP signals

| Signal name | Pin | I/O | Description |
|-----------------|-----|-----|--|
| GND | 1 | I/O | Supply voltage, negative terminal |
| SDA | 2 | I/O | I ² C data |
| NC | 3-5 | I/O | Must not be connected |
| SCL | 6 | I | I ² C clock |
| RST | 7 | I | At reset: selects I ² C slave address. During operation: CP warm reset. |
| V _{CC} | 8 | I/O | Supply voltage, positive terminal |

Figure 2-1 CP chip pinouts, top view





The thermal pad on the bottom of the CP may be left unconnected or optionally connected to GND.

IC1102 CVIKS28851SNLTR ETHERNET PHY (10/100M,QFN-32P)

Pin Configuration

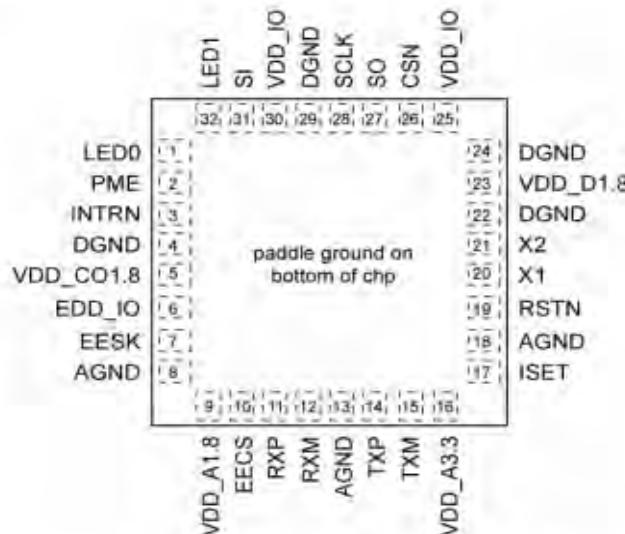


Figure 2. 32-Pin (5mm x 5mm) MLF®

Functional Diagram

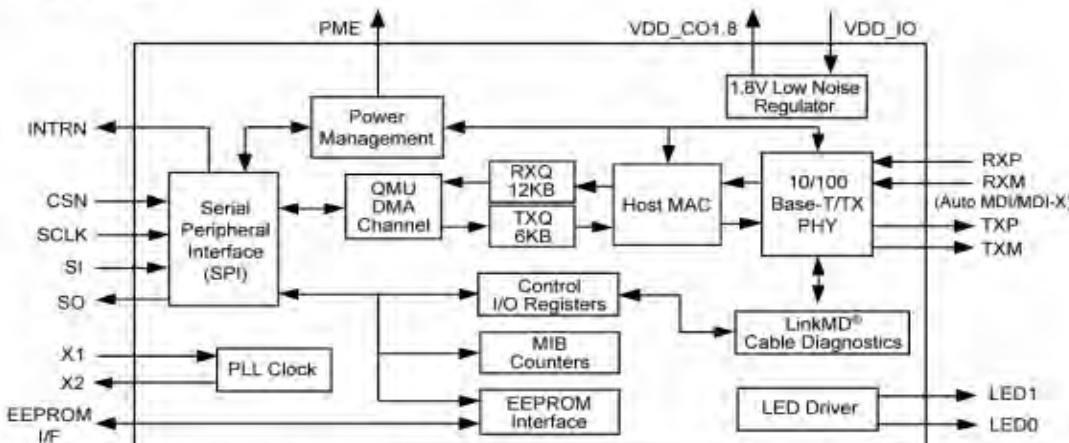


Figure 1. KSZ8851SNL/SNLI Functional Diagram

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Magic Packet is a trademark of Advanced Micro Devices, Inc.

MLF and MicroLeadFrame are registered trademarks of Amkor Technology, Inc.

Product names used in this datasheet are for identification purposes only and may be trademarks of their respective companies.

IC1103 CVIPCM5100PWR 2CH DAC(32BIT,384KHZ,TSSOP-20P)

DEVICE INFORMATION

TERMINAL FUNCTIONS, PCM510x

PCMS10X (top view)

| | |
|---------|--------|
| 1 CPVDD | DVDD20 |
| 2 CAPP | DGND19 |
| 3 CGND | LDO018 |
| 4 CAPM | KSM17 |
| 5 VNEG | FMT16 |
| 6 ZIN | LEADER |

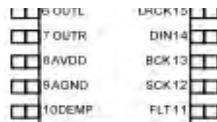


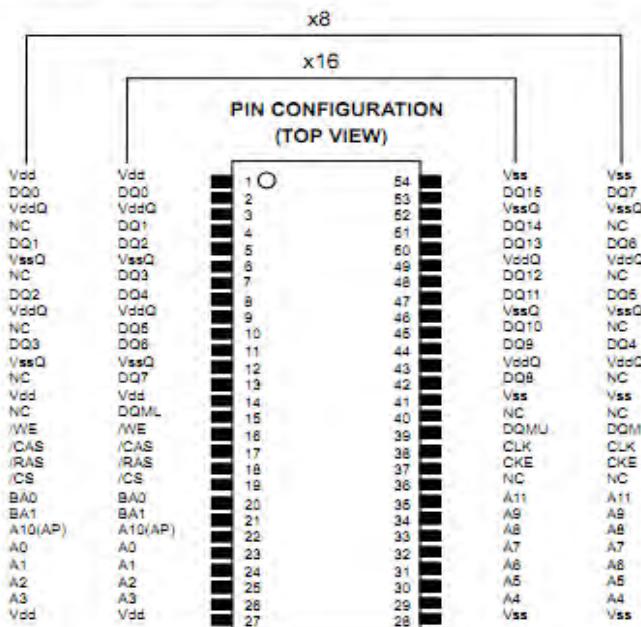
Table 2. TERMINAL FUNCTIONS, PCM510x

| TERMINAL NAME | I/O | DESCRIPTION |
|------------------|-----|--|
| NO. | | |
| CPVDD | + | Charge pump power supply, 3.3V |
| CAPP | O | Charge pump flying capacitor terminal for positive rail |
| CPGND | + | Charge pump ground |
| CAPM | O | Charge pump flying capacitor terminal for negative rail |
| VNEG | O | Negative charge pump rail terminal for decoupling, -3.3V |
| OUTL | O | Analog output from DAC left channel |
| OUTR | O | Analog output from DAC right channel |
| AVDD | + | Analog power supply, 3.3V |
| AGND | + | Analog ground |
| DEMP | I | De-emphasis control for 44.1kHz sampling rate ⁽¹⁾ : Off (Low) / On (High) |
| FLT | I | Filter select : Normal latency (Low) / Low latency (High) |
| SCK | I | System clock input |
| BCK | I | Audio data bit clock input |
| DIN | I | Audio data input |
| LRCK | I | Audio data word clock input |
| FMT | I | Audio format selection : I ² S (Low) / Left justified (High) |
| XSMT | I | Soft mute control : Soft mute (Low) / soft unmute (High) |
| LDOO | + | Internal logic supply rail terminal for decoupling |
| DGND | + | Digital ground |
| DVDD | + | Digital power supply, 3.3V |

(1) Failsafe LVCMS Schmitt trigger input

IC1104 CVIA3V28S40FTP-G6 SDRAM(128MBIT,TSOP-54P)

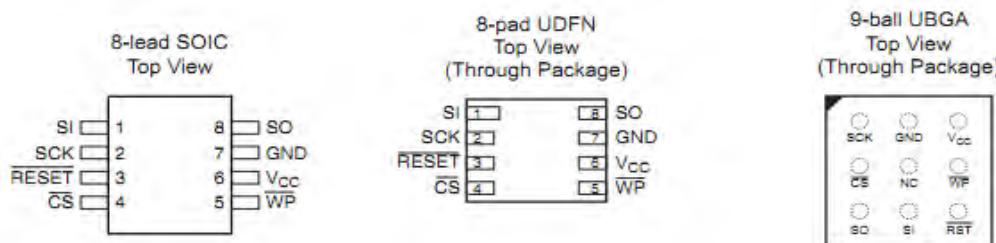
PIN CONFIGURATION (TOP VIEW)



| | | | |
|--------|--------------------------|--------|---|
| CLK | : Master Clock | DQM | : Output Disable / Write Mask (A3V28S30FTP) |
| CKE | : Clock Enable | DQML,L | : Output Disable / Write Mask (A3V28S40FTP) |
| /CS | : Chip Select | A0-11 | : Address Input |
| /RAS | : Row Address Strobe | BA0,1 | : Bank Address |
| /CAS | : Column Address Strobe | Vdd | : Power Supply |
| /WE | : Write Enable | VddQ | : Power Supply for Output |
| DQ0-7 | : Data I/O (A3V28S30FTP) | Vss | : Ground |
| DQ0-15 | : Data I/O (A3V28S40FTP) | VssQ | : Ground for Output |

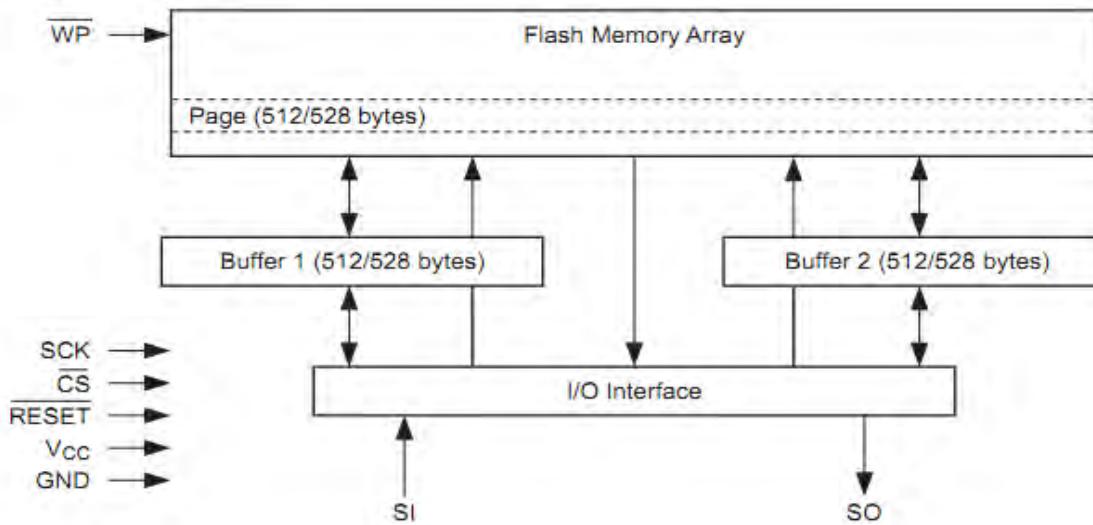
IC1105 CVIAT45DB321E-SHF-T SERIAL DATA FLASH(32M,SOIC-8P)

1. Pin Configurations and Pinouts

Figure 1-1. Pinouts

Note: 1. The metal pad on the bottom of the UDFN package is not internally connected to a voltage potential. This pad can be a "no connect" or connected to GND.

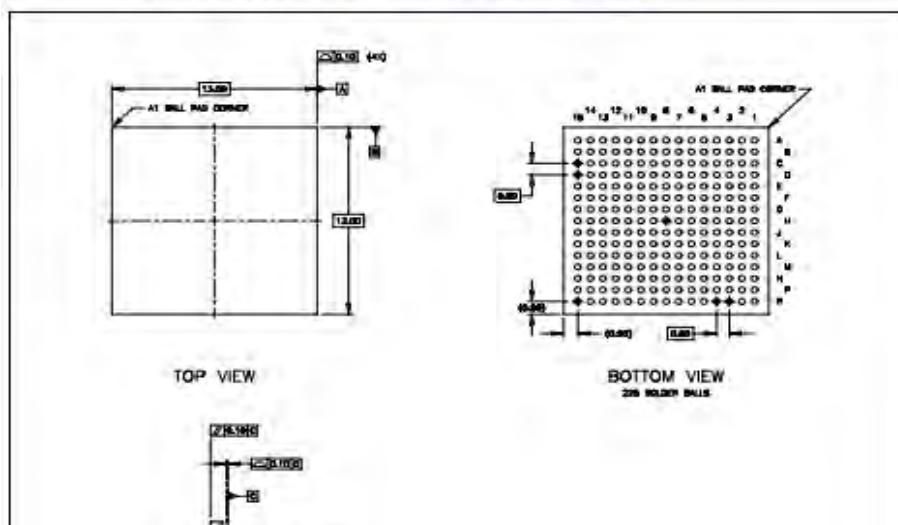
2. Block Diagram

Figure 2-1. Block Diagram

IC1106 CVIFS1230A CHORUS3(NETWORK PROCESSOR)

1 Package

Chorus 3 is available in a 225 TFBGA package – thin plastic BGA.
For compliance statements, see [Compliance standards on page 24](#).



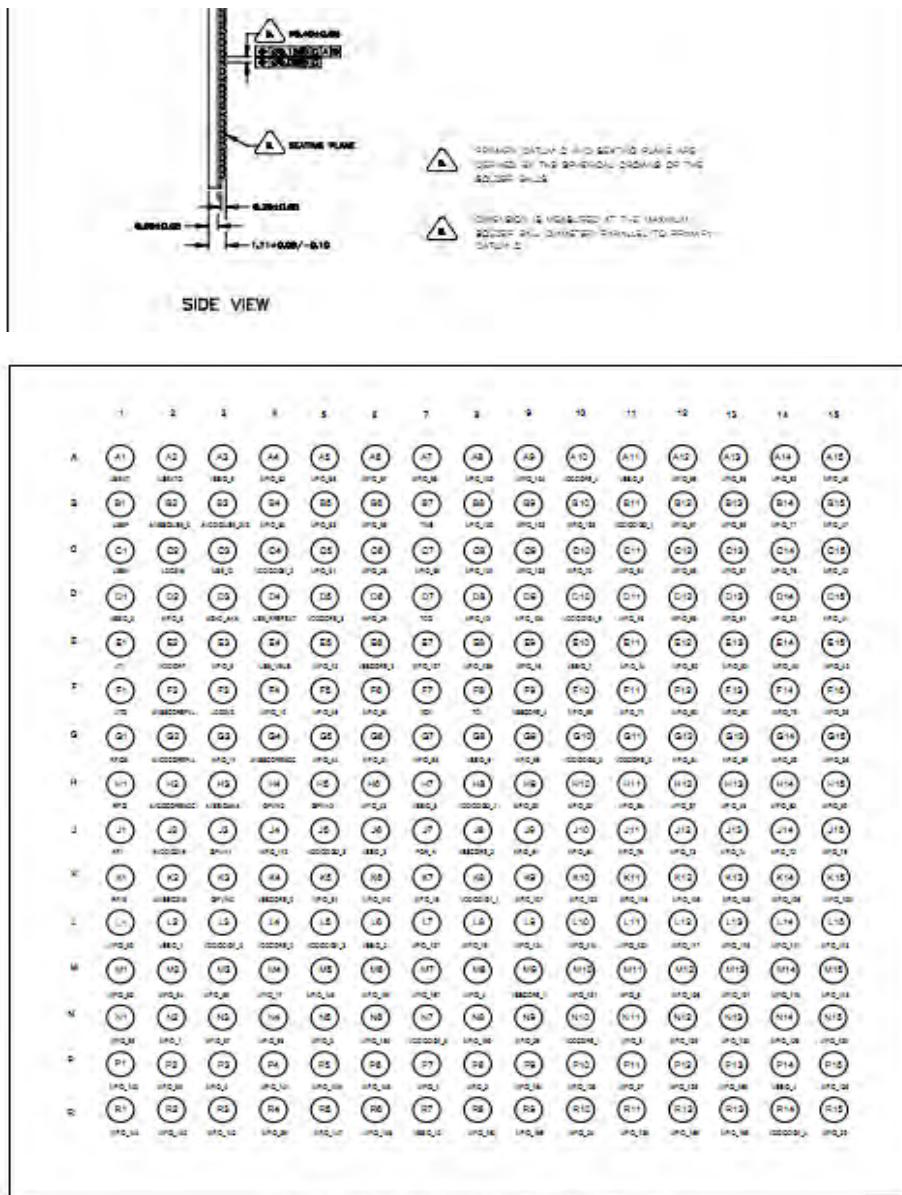


Figure 2: Chorus 3 package pin-out (top view)

2 Pin-out

2.1 Full pin list (primary functions)

| Pin | Signal/function | Pin | Signal/function | Pin | Signal/function | Pin | Signal/function |
|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|
| A1 | USBXTI | C1 | USBN | E1 | XTI | G1 | RFIQB |
| A2 | USBXTO | C2 | VDD2V5 | E2 | VDDIORF | G2 | AVDDCOREPLL |
| A3 | VSSIO_8 | C3 | USB_ID | E3 | MFIO_8 | G3 | MFIO_11 |
| A4 | MFIO_92 | C4 | VDDIODIG1_2 | E4 | USB_VBUS | G4 | AVSSCOREADC |
| A5 | MFIO_95 | C5 | MFIO_91 | E5 | MFIO_12 | G5 | MFIO_44 |
| A6 | MFIO_97 | C6 | MFIO_29 | E6 | VSSCORE_3 | G6 | MFIO_21 |
| A7 | MFIO_99 | C7 | MFIO_98 | E7 | MFIO_137 | G7 | MFIO_66 |
| A8 | MFIO_103 | C8 | MFIO_101 | E8 | MFIO_135 | G8 | VSSIO_5 |
| A9 | MFIO_104 | C9 | MFIO_132 | E9 | MFIO_15 | G9 | MFIO_35 |
| A10 | VDDCORE_4 | C10 | MFIO_70 | E10 | VSSIO_7 | G10 | VDDIODIG2_0 |
| A11 | VSSIO_6 | C11 | MFIO_64 | E11 | MFIO_14 | G11 | VDDCORE_2 |
| A12 | MFIO_56 | C12 | MFIO_58 | E12 | MFIO_30 | G12 | MFIO_34 |
| A13 | MFIO_69 | C13 | MFIO_67 | E13 | MFIO_63 | G13 | MFIO_35 |
| A14 | MFIO_62 | C14 | MFIO_79 | E14 | MFIO_49 | G14 | MFIO_33 |
| A15 | MFIO_46 | C15 | MFIO_42 | E15 | MFIO_40 | G15 | MFIO_36 |
| B1 | USBP | D1 | VSSIO_0 | F1 | XTO | H1 | RFIQ |
| B2 | AVSSIOUSB_0 | D2 | MFIO_9 | F2 | AVSSCOREPLL | H2 | AVDDCOREADC |
| B3 | AVDDIOUSB_3V3 | D3 | AGND_ANA | F3 | LDO3V3 | H3 | AVSSIOANA |
| B4 | MFIO_90 | D4 | USB_RREFEXT | F4 | MFIO_10 | H4 | GPVIN2 |

| | | | | | | | |
|-----|--------------|-----|--------------|-----|-----------|-----|--------------|
| B5 | MFI0_93 | D5 | VDDCORE_3 | F5 | MFI0_45 | H5 | GPVIN3 |
| B6 | MFI0_96 | D6 | MFI0_28 | F6 | MFI0_94 | H6 | MFI0_43 |
| B7 | TMS | D7 | TDO | F7 | TCK | H7 | VSSIO_9 |
| B8 | MFI0_100 | D8 | MFI0_13 | F8 | TDI | H8 | VDDIO/DIG2_2 |
| B9 | MFI0_102 | D9 | MFI0_134 | F9 | VSSCORE_4 | H9 | MFI0_20 |
| B10 | MFI0_133 | D10 | VDDIO/DIG1_5 | F10 | MFI0_65 | H10 | MFI0_22 |
| B11 | VDDIO/DIG2_1 | D11 | MFI0_19 | F11 | MFI0_71 | H11 | MFI0_39 |
| B12 | MFI0_57 | D12 | MFI0_59 | F12 | MFI0_80 | H12 | MFI0_37 |
| B13 | MFI0_68 | D13 | MFI0_61 | F13 | MFI0_50 | H13 | MFI0_48 |
| B14 | MFI0_77 | D14 | MFI0_32 | F14 | MFI0_78 | H14 | MFI0_52 |
| B15 | MFI0_47 | D15 | MFI0_41 | F15 | MFI0_38 | H15 | MFI0_53 |

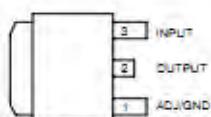
| Pin | Signal/function | Pin | Signal/function | Pin | Signal/function | Pin | Signal/function |
|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|
| J1 | RFI1 | K13 | MFI0_108 | M10 | MFI0_131 | P7 | MFI0_1 |
| J2 | AVDDIO2V5 | K14 | MFI0_105 | M11 | MFI0_6 | P8 | MFI0_2 |
| J3 | GPVIN1 | K15 | MFI0_109 | M12 | MFI0_125 | P9 | MFI0_154 |
| J4 | MFI0_112 | L1 | MFI0_83 | M13 | MFI0_121 | P10 | MFI0_139 |
| J5 | VDDIO/DIG2_3 | L2 | VSSIO_1 | M14 | MFI0_119 | P11 | MFI0_27 |
| J6 | VSSIO_3 | L3 | VDDIO/DIG1_0 | M15 | MFI0_118 | P12 | MFI0_136 |
| J7 | POR_N | L4 | VDDCORE_0 | N1 | MFI0_84 | P13 | MFI0_159 |
| J8 | VSSCORE_2 | L5 | VDDIO/DIG1_3 | N2 | MFI0_7 | P14 | VSSIO_4 |
| J9 | MFI0_51 | L6 | VSSIO_2 | N3 | MFI0_87 | P15 | MFI0_126 |
| J10 | MFI0_54 | L7 | MFI0_127 | N4 | MFI0_89 | R1 | MFI0_144 |
| J11 | MFI0_76 | L8 | MFI0_18 | N5 | MFI0_3 | R2 | MFI0_140 |
| J12 | MFI0_73 | L9 | MFI0_124 | N6 | MFI0_150 | R3 | MFI0_142 |
| J13 | MFI0_74 | L10 | MFI0_114 | N7 | VDDIO/DIG1_6 | R4 | MFI0_25 |
| J14 | MFI0_72 | L11 | MFI0_123 | N8 | MFI0_153 | R5 | MFI0_147 |
| J15 | MFI0_75 | L12 | MFI0_117 | N9 | MFI0_26 | R6 | MFI0_149 |
| K1 | RFIIB | L13 | MFI0_116 | N10 | VDDCORE_1 | R7 | VSSIO_10 |
| K2 | AVSSIO2V5 | L14 | MFI0_111 | N11 | MFI0_5 | R8 | MFI0_152 |
| K3 | GPVIN0 | L15 | MFI0_113 | N12 | MFI0_128 | R9 | MFI0_155 |
| K4 | VSSCORE_0 | M1 | MFI0_82 | N13 | MFI0_130 | R10 | MFI0_24 |
| K5 | MFI0_81 | M2 | MFI0_84 | N14 | MFI0_129 | R11 | MFI0_138 |
| K6 | MFI0_110 | M3 | MFI0_85 | N15 | MFI0_120 | R12 | MFI0_156 |
| K7 | MFI0_16 | M4 | MFI0_17 | P1 | MFI0_143 | R13 | MFI0_158 |
| K8 | VDDIO/DIG1_1 | M5 | MFI0_146 | P2 | MFI0_88 | R14 | VDDIO/DIG1_4 |
| K9 | MFI0_107 | M6 | MFI0_151 | P3 | MFI0_0 | R15 | MFI0_23 |
| K10 | MFI0_122 | M7 | MFI0_157 | P4 | MFI0_141 | | |
| K11 | MFI0_115 | M8 | MFI0_4 | P5 | MFI0_145 | | |
| K12 | MFI0_106 | M9 | VSSCORE_1 | P6 | MFI0_148 | | |

Table 2: Chorus 3 full pin list (primary functions) by pin number

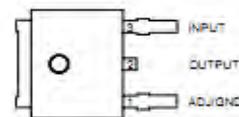
IC1201 CVIAZ1117CH-5.0TRG1 low dropout three-terminal regulator

D Package

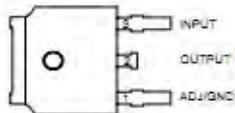
(TO-252-2 (1))



(TO-252-2 (2))



(TO-252-2 (3))



(TO-252-2 (4))

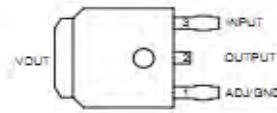
H Package
(SOT-223)R Package
(SOT-89)



Figure 2. Pin Configuration of AZ1117C (Top View)

IC1202, IC1204 CVIDB1230HETR DC DC CONVERTER(3A,700KHZ,SOP-8P)**PIN DESCRIPTION**

| PIN NO. | SYMBOL | DESCRIPTION |
|---------|-------------|--|
| 1 | EN | Enable pin. For automatic start-up, please leave it open and in case of on/off control, there should be pull-down resistor.(10K-100Kohm) |
| 2 | FB | Feedback pin. External resistors are connected between OUT and GND to set the regulated output voltage based on 0.8V reference. |
| 3 | VCC | Internal regulated output. A decoupling capacitor should be close to this pin as possible |
| 4 | SS | External soft-start program pin. An external capacitor should be connected to GND. |
| 5 | GND | Ground |
| 6 | SW | Switching Node. An inductor, internal high-side and low-side power switches are connected |
| 7 | BS | Bootstrap pin. The bootstrap charge capacitor should be connected between BS and SW to provide a supply to gate driver of high-side power switch. |
| 8 | IN | Input power supply pin. |
| EP | Exposed Pad | Exposed pad. Connect the exposed pad to GND for heat sink. This pin combines thermal sink and power ground. |

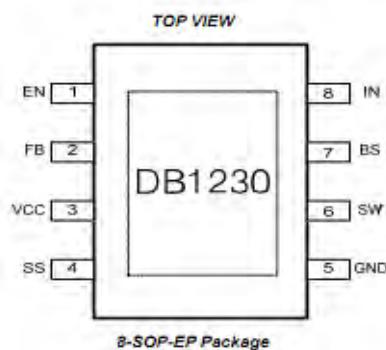
PIN CONFIGURATION

Fig.3 DB1230 Pin configuration

IC1205 CVIEML3418-00SE08GRR DCDC CONVERTER(SOP-8FD)

| Connection Diagram | Order Information |
|----------------------------|---|
| TDFN-8 Package | EML3418-00SE08GRR/NRR 00 Adj Operation FP08 TDFN-8 Package NRR RoHS & Halogen Free Rating: -40 to 85°C Package in Tape & Reel |
| SOP-8FD Package | EML3418-00SE08GRR/NRR 00 Adj Operation SE08 SOP-8FD package GRR RoHS (Pb Free) Rating: -40 to 85°C Package in Tape & Reel NRR RoHS & Halogen free (By Request) Rating: -40 to 85°C |

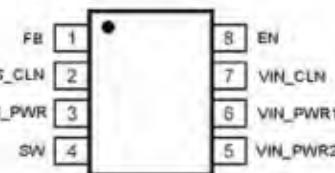
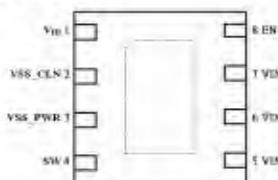
SW 4 5 VIN_PWR2

Package in Tape & Reel

Order, Mark & Packing Information

| Package | Vout | Product ID | Marking | Packing |
|---------|------|-------------------|---------|----------------------|
| TDFN-8 | Adj | EML3418-00FF08NRR | | 5Kpcs Tape & Reel |
| SOP-8FD | Adj | EML3418-00SE08GRR | | 3Kpcs Tape & Reel |

Package Configuration



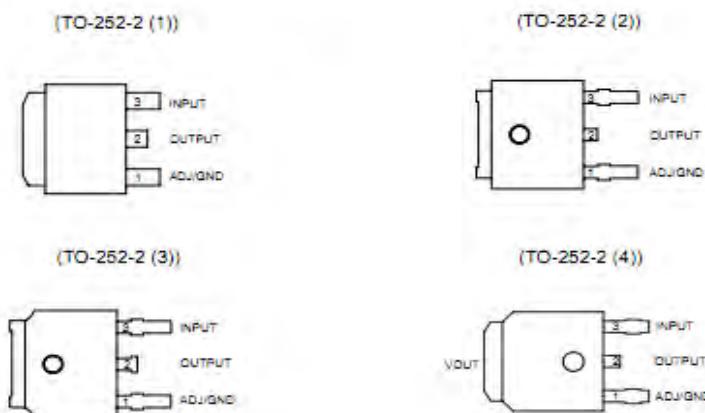
Pin Func

(TDFN-8, adjustable)

| Pin # | Pin Name | Function |
|-------------|-------------------------------------|--|
| 1 | V _{fb} (Adjustable) | Feedback Pin. Receives the feedback voltage from an external resistive divider across the output. |
| | V _{out} (Fixed voltage) | Output Voltage Pin. An internal resistive divider divides the output voltage down for comparison to the internal reference voltage. |
| 2 | VSS_CLN | Analog Ground Pin. |
| 3 | VSS_PWR | Power Ground Pin. |
| 4 | SW | Switch Pin. Must be connected to inductor. This pin connects to the drains of the internal main and synchronous power MOSFET switches. |
| 5, 6 | VIN_PWR | Power Input Pin. Must be closely decoupled to GND pin with a 4.7 μ F or greater ceramic capacitor. |
| 7 | VIN_CLN | Analog Input Pin. Must be closely decoupled to GND pin with a 4.7 μ F or greater ceramic capacitor. |
| 8 | EN | Enable Pin. Minimum 1.2V to enable the device. Maximum 0.4V to shut down the device. Do not leave this pin floating and enable the chip after Vin is in the input voltage range. |
| Exposed pad | | Connect to Ground. |

IC1206 CVIAZ1117CH-1.2TRG1 low dropout three-terminal regulator

D Package



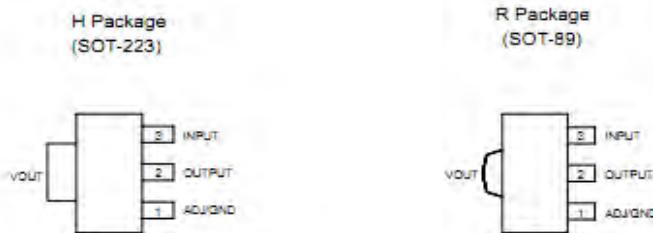
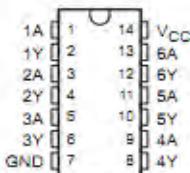


Figure 2. Pin Configuration of AZ1117C (Top View)

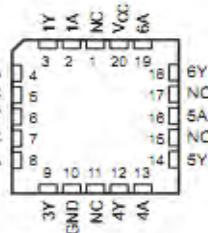
IC13 CVISN7ACT04DR HEX INVERTERS(SOIC/D-14P)

- 4.5-V to 5.5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Max t_{pd} of 8.5 ns at 5 V
- Inputs Are TTL-Voltage Compatible

SN54ACT04...J OR W PACKAGE
SN74ACT04...D, DB, N, NS, OR PW PACKAGE
(TOP VIEW)



SN54ACT04...FK PACKAGE
(TOP VIEW)



NC = No internal connection

description/ordering information

The 'ACT04 devices contain six independent inverters. The devices perform the Boolean function Y = \bar{A} .

ORDERING INFORMATION

| T _A | PACKAGE [†] | ORDERABLE PART NUMBER | TOP-SIDE MARKING |
|----------------|----------------------|----------------------------|------------------|
| -40°C to 85°C | PDIP - N | Tube SN74ACT04N | SN74ACT04N |
| | SOIC - D | Tube SN74ACT04D | ACT04 |
| | SOP - NS | Tape and reel SN74ACT04NSR | ACT04 |
| | SSOP - DB | Tape and reel SN74ACT04DBR | AD04 |
| | TSSOP - PW | Tape and reel SN74ACT04PWR | AD04 |
| | CDIP - J | Tube SNJ54ACT04J | SNJ54ACT04J |
| -55°C to 125°C | CDFP - W | Tube SNJ54ACT04W | SNJ54ACT04W |
| | LCCC - FK | Tube SNJ54ACT04FK | SNJ54ACT04FK |

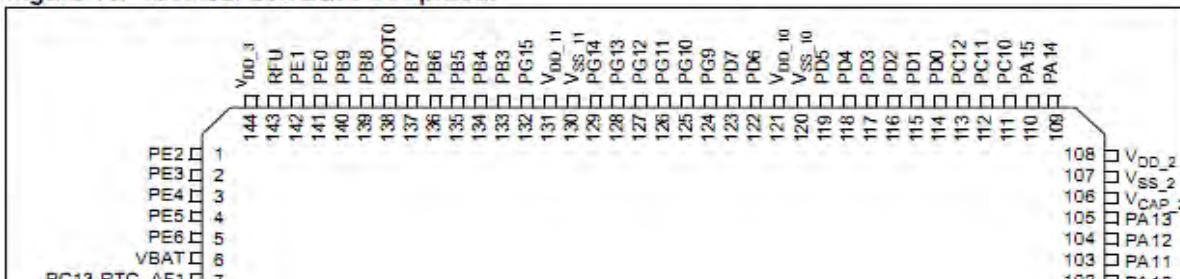
[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

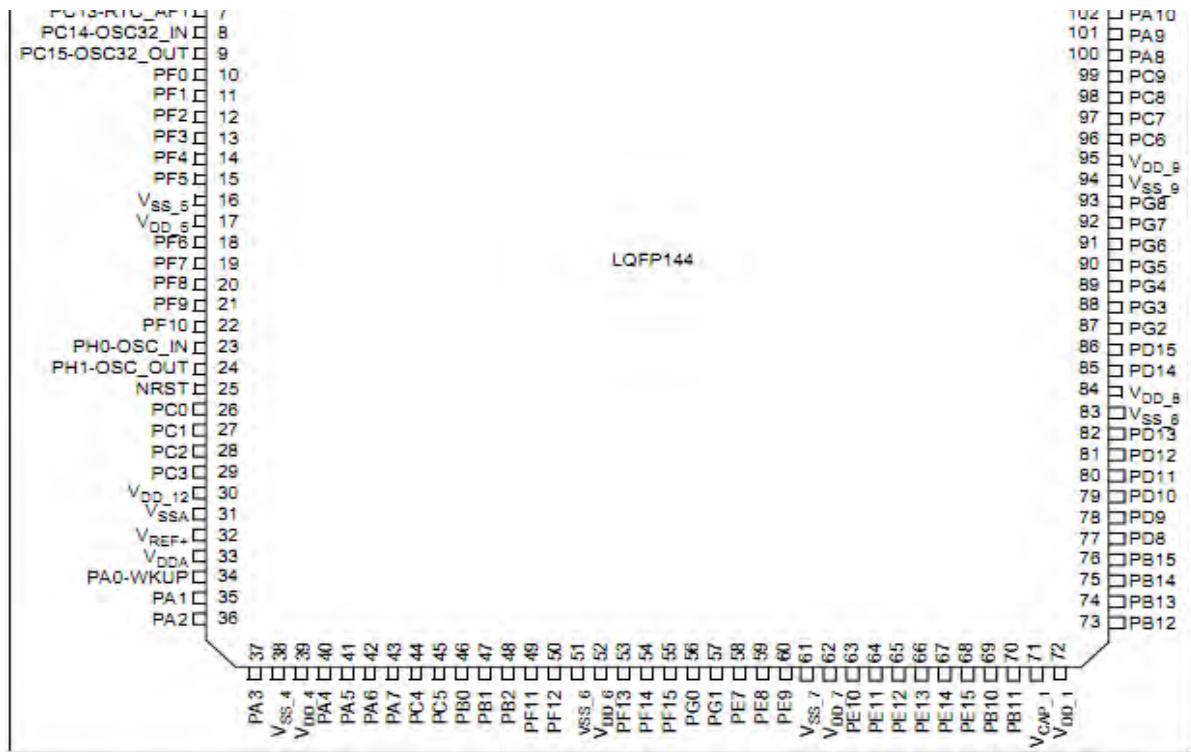
**FUNCTION TABLE
(each inverter)**

| INPUT A | OUTPUT Y |
|---------|----------|
| H | L |
| L | H |

IC1401 CVISTM32F205ZGT6 FLASH MCU (32 BIT, 1MB, LQFP 144)

Figure 11. STM32F20x LQFP144 pinout



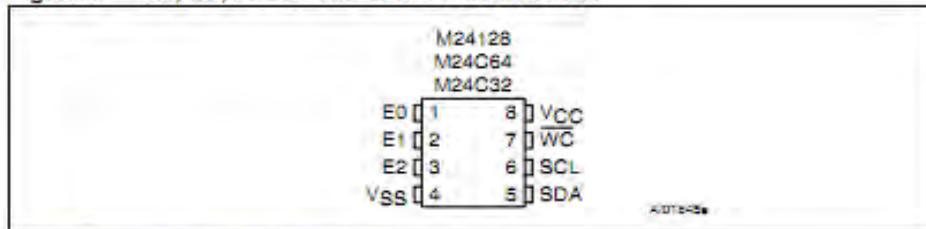


IC1403 CVIM24C32WMN6TP EEPROM (32 Kbit) ST

Table 2. Signal names

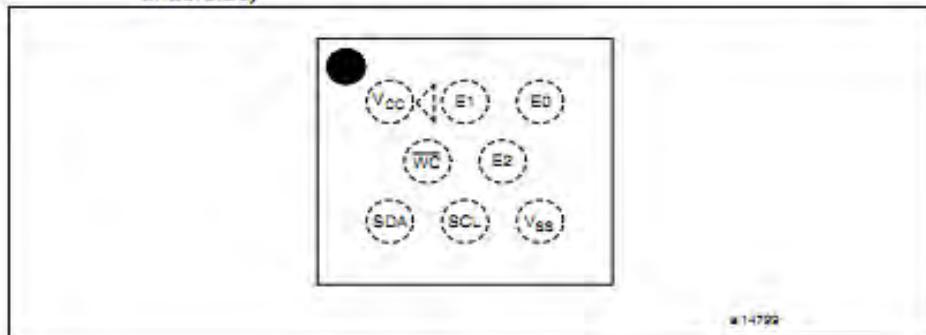
| Signal name | Function | Direction |
|-------------|----------------|-----------|
| E0, E1, E2 | Chip Enable | Input |
| SDA | Serial Data | I/O |
| SCL | Serial Clock | Input |
| WC | Write Control | Input |
| Vcc | Supply voltage | |
| Vss | Ground | |

Figure 2. DIP, SO, TSSOP and UDFDPN connections



1. See [Package mechanical data](#) section for package dimensions, and how to identify pin-1.

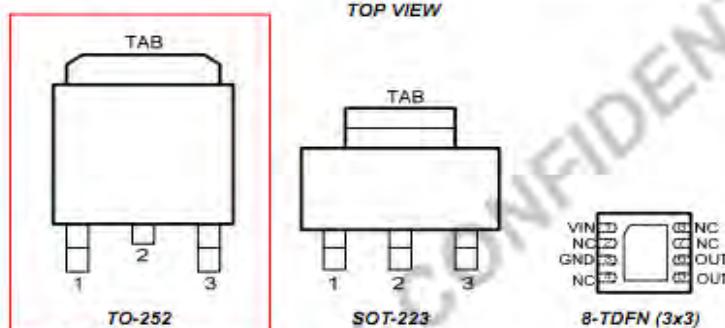
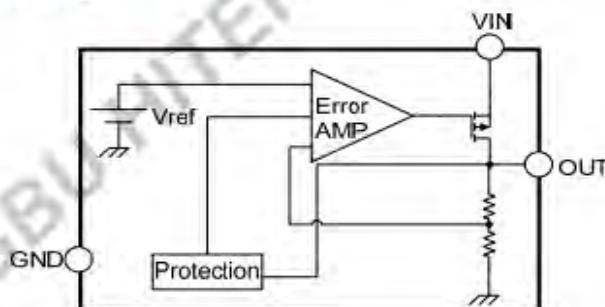
Figure 3. M24128 WLCSP connections (top view, marking side, with balls on the underside)



IC1404 CVIDB1510BT3TR33 REGULATOR(1.0A,3.3V,TO252-(1))

PIN DESCRIPTION

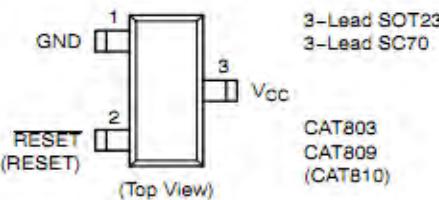
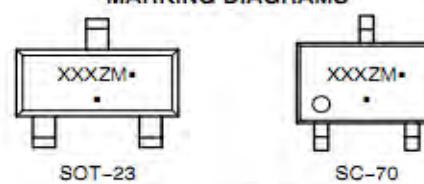
| PIN NO | | SYMBOL | DESCRIPTION | |
|----------------------------|-----------------------------|------------|-------------|----------------|
| TO-252 (I) SOT-223 (II) | TO-252 (II) SOT-223 (II) | | 8-TDFN | |
| 1 | 3 | 1 | VIN | Input Voltage |
| 2, TAB | 1 | 3 | GND | Ground |
| 3 | 2, TAB | 5, 6 | OUT | Output Voltage |
| - | - | 2, 4, 7, 8 | NC | No Connection |

PIN CONFIGURATION**BLOCK DIAGRAM****IC1405 CVICAT809RTBI-GT3 RESET IC (2.63V, SOT-23-3)****Features**

- Precision Monitoring of +5.0 V (-5%, -10%, -20%), +3.3 V (-5%, -10%), +3.0 V (-10%) and +2.5 V (-5%) Power Supplies
- Offered in Three Output Configurations:
 - CAT803: Open-Drain Active LOW Reset
 - CAT809: Push-Pull Active LOW Reset
 - CAT810: Push-Pull Active HIGH Reset
- Direct Replacements for the MAX803, MAX809 and MAX810 in Applications Operating over the Industrial Temperature Range
- Reset Valid down to $V_{CC} = 1.0$ V
- 6 μ A Power Supply Current
- Power Supply Transient Immunity
- Industrial Temperature Range: -40°C to +85°C
- Available in SOT-23 and SC-70 Packages
- These Devices are Pb-Free and are RoHS Compliant

Applications

- Computers, Servers, Laptops, Cable Modems
- Wireless Communications
- Embedded Control Systems
- White Goods, Power Meters
- Intelligent Instruments
- PDA's and Handheld Equipment

**MARKING DIAGRAMS**

XXX = Specific Device Code
Z = Assembly Lot Code
M = Month Code
• = Pb-Free Package

(*Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 8 of this data sheet.

IC15 HVINJM4556AL HEADPHONE (JRC)

■ GENERAL DESCRIPTION

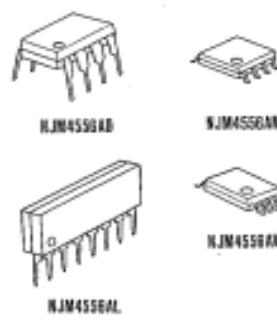
The NJM4556A integrated circuit is a high-gain, high output current dual operational amplifier capable of driving $\pm 70\text{mA}$ into $150\ \Omega$ loads ($\pm 10.5\text{V}$ output voltage), and operating low supply voltage ($V^+ / V^- = \pm 2\text{V} \sim$).

The NJM4556A combines many of the features of the popular NJM4558 as well as having the capability of driving $150\ \Omega$ loads. In addition, the wide band-width, low noise, high slew rate and low distortion of the NJM4556A make it ideal for many audio, telecommunications and instrumentation applications.

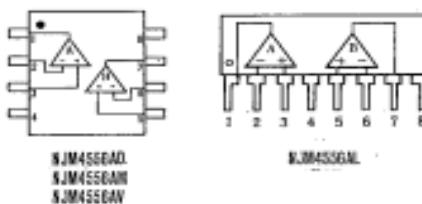
■ FEATURES

- Operating Voltage ($\pm 2\text{V} \sim \pm 18\text{V}$)
- High Output Current ($I_{O\text{max}}=70\text{mA}$)
- Slew Rate ($3\text{V}/\mu\text{s}$ typ.)
- Gain Band Width Product (8MHz typ.)
- Package Outline DIP8, DMP8, SIP8, SSOP8
- Bipolar Technology

■ PACKAGE OUTLINE

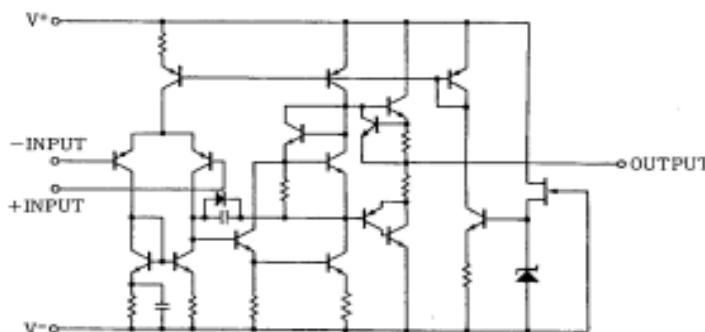


■ PIN CONFIGURATION

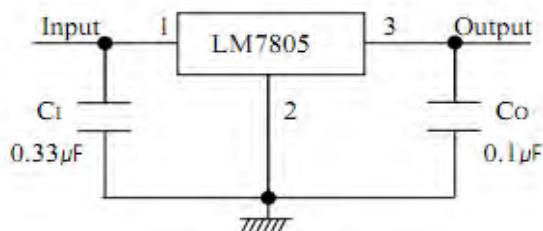


| PIN FUNCTION | |
|--------------|----------|
| 1. | A OUTPUT |
| 2. | A-INPUT |
| 3. | A+INPUT |
| 4. | V- |
| 5. | B+INPUT |
| 6. | B-INPUT |
| 7. | B OUTPUT |
| 8. | V+ |

■ EQUIVALENT CIRCUIT (1/2 Shown)



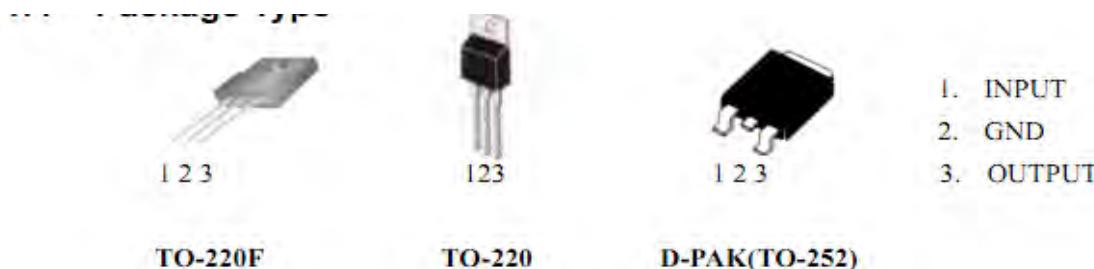
IC1502, IC1503 CVLM7808RTL REGULATOR(1A, 8V)



The input voltage must remain typically 2.0V above the output voltage even during the low point on the ripple voltage.

- C_i is required if regulator is located an appreciable distance from power filter.
- C_o improves transient response. Value of $\leq 0.1\ \mu\text{F}$ could cause instability.

1.4 Package Type

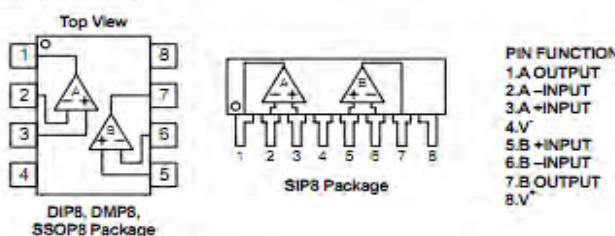


IC25, IC30, IC35 HVINJM2068MDTE1 OP AMP (JRC)

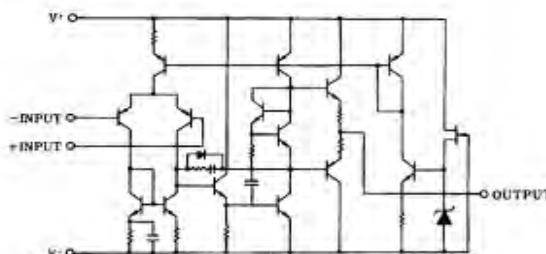
■ FEATURES

| | |
|---------------------------------|--------------------------|
| • Operating Voltage | $\pm 4V \sim \pm 18V$ |
| • Low Total Harmonic Distortion | 0.001% |
| • Low Noise Voltage | 0.56 μ V (FLAT+JISA) |
| • High Slew Rate | 6V/ μ s |
| • Unity Gain Bandwidth | 27MHz ($f=10$ kHz) |
| • Bipolar Technology | |
| • Package Outline | DIP8, DMP8, SIP8, SSOP8 |

■ PIN CONFIGURATION

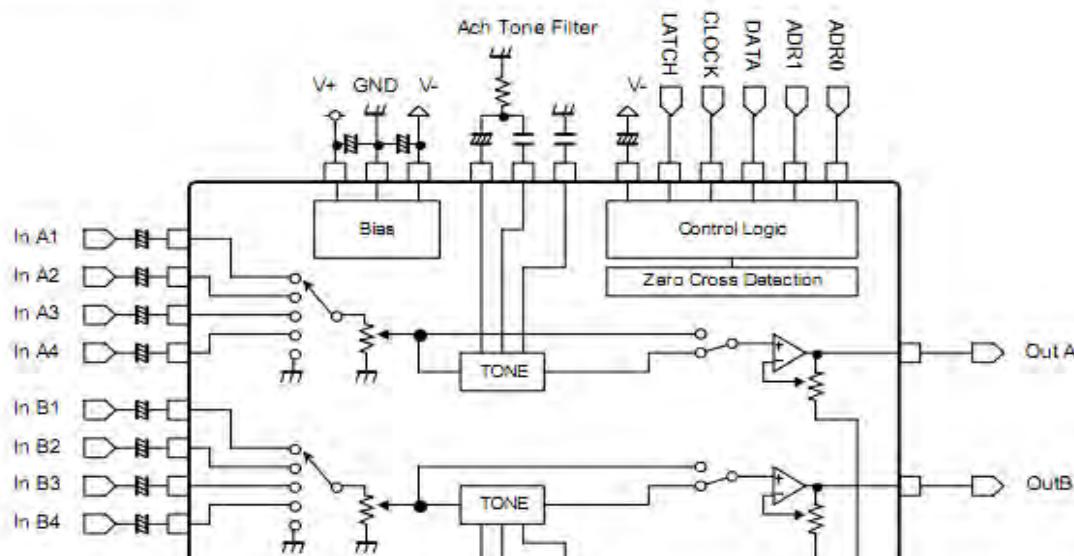


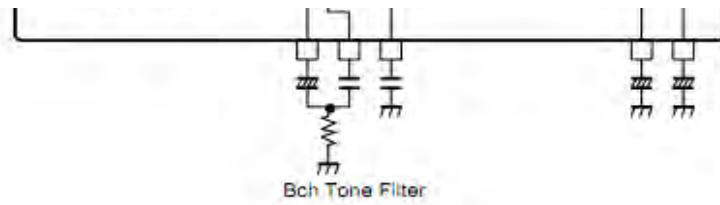
■ EQUIVALENT CIRCUIT (1/2 Shown)



IC34 CVINJW1194V 2CH VOLUME

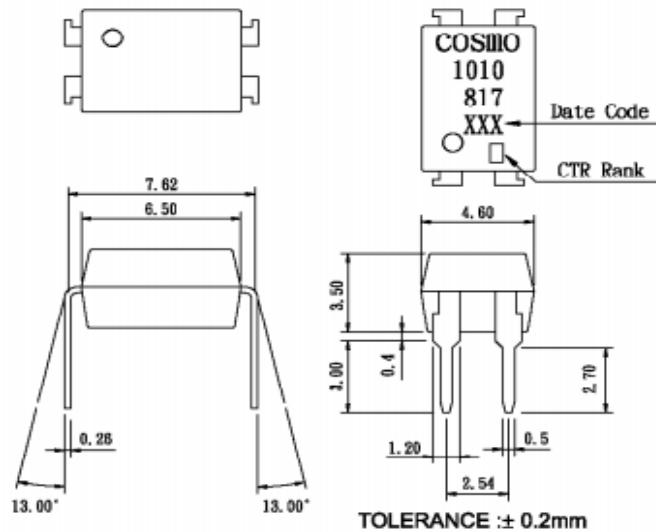
■ BLOCK DIAGRAM



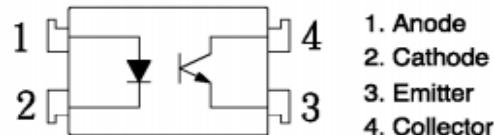


IC601 BVIKP1010B PHOTO COUPLER (COSMO)

Outside Dimension : Unit (mm)

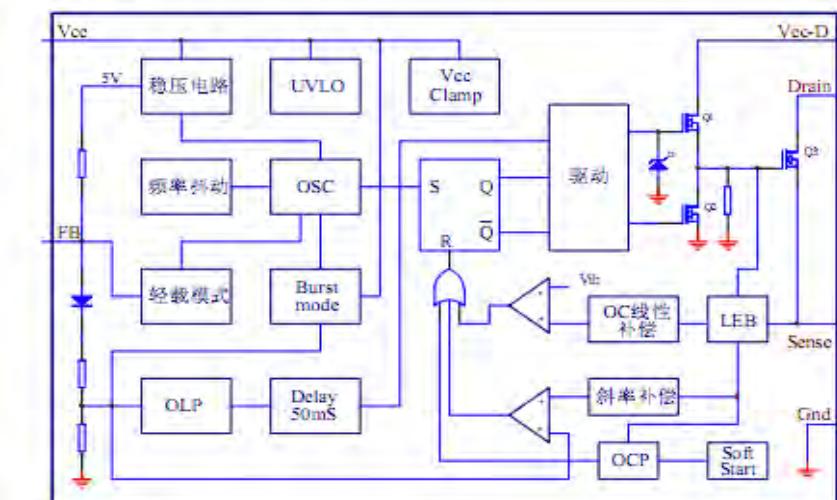


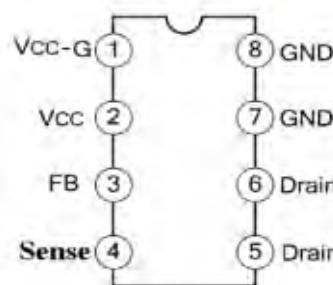
Schematic : Top View



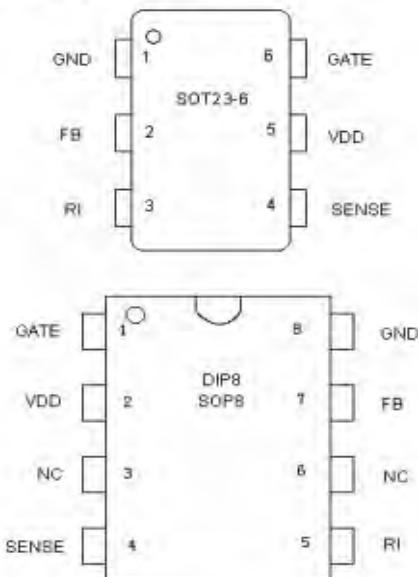
IC91 CVIOB2358LAP PWM

内部框图：



管脚排列图：**IC92 CVIOB2263MPA PWM CONTROLLER (SOT23-6)****GENERAL INFORMATION****Pin Configuration**

The OB2263 is offered in SOT23-6, DIP8 and SOP8 packages, shown as below.

**Ordering Information**

| Part Number | Description |
|-------------|------------------|
| OB2263MP | SOT23-6, Pb-free |
| OB2263AP | DIP8, Pb-free |
| OB2263CP | SOP8, Pb-free |

Package Dissipation Rating

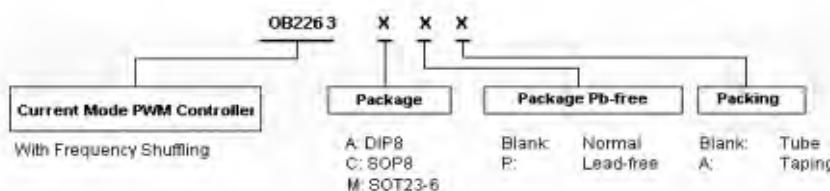
| Package | R _{0JA} (°C/W) |
|---------|-------------------------|
| DIP8 | 90 |
| SOP8 | 150 |
| SOT23-6 | 200 |

Absolute Maximum Ratings

| Parameter | Value |
|---|-----------------------------|
| V _{DD} DC Supply Voltage | 30 V |
| V _{DD} Zener Clamp Voltage ^{Note} | V _{DD_Clamp} +0.1V |
| V _{DD} DC Clamp Current | 10 mA |
| V _{FB} Input Voltage | -0.3 to 7V |
| V _{SENSE} Input Voltage to Sense Pin | -0.3 to 7V |
| V _{RI} Input Voltage to RI Pin | -0.3 to 7V |
| Min/Max Operating Junction Temperature T _J | -20 to 150 °C |
| Min/Max Storage Temperature T _{stg} | -55 to 160 °C |

Note: V_{DD_Clamp} has a nominal value of 34V.

Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute maximum-rated conditions for extended periods may affect device reliability.

**IC93 CVIICE2QS02G PWM CONTROLLER(PG-DSO-8)****1.1 Pin Configuration**

| Pin | Symbol | Function |
|-----|--------|-------------------------|
| 1 | BL | Blanking Time |
| 2 | ZC | Zero Crossing |
| 3 | FB | Feedback |
| 4 | CS | Primary Current Sensing |
| 5 | VINS | Input Voltage Sensing |

| | | |
|---|------|---------------------------|
| 6 | GATE | Gate Driver Output |
| 7 | VCC | Controller Supply Voltage |
| 8 | GND | Controller Ground |

1.2 Package

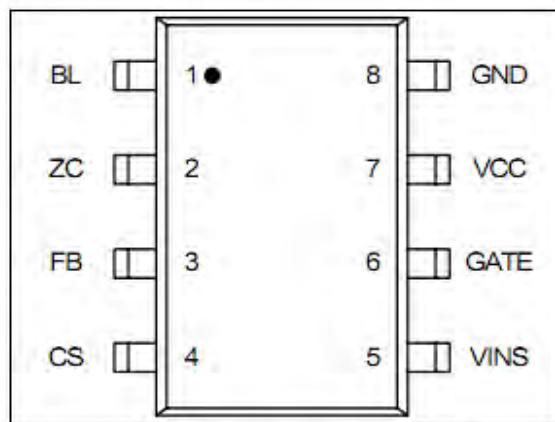
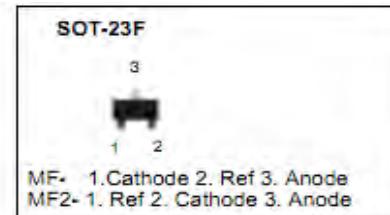
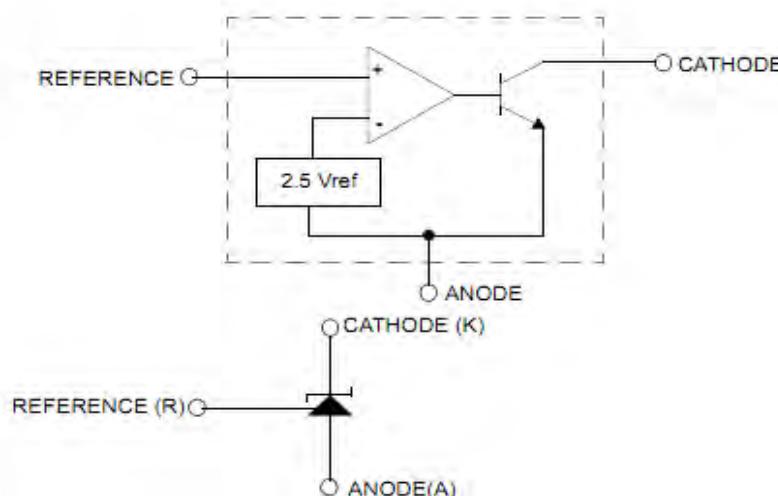


Figure 1 Pin configuration PG-DSO-8-8 (top view)

IC94, IC95, IC96 CVIKA431SAMF2 SHUNT REGULATOR(SOT-23F)

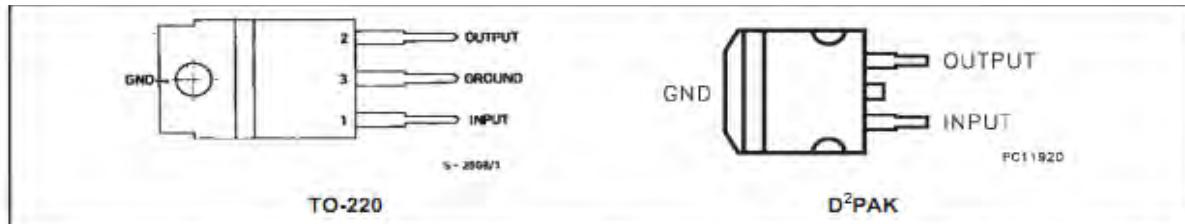


Internal Block Diagram



IC98 HVINJM7912FA REGULATOR

CONNECTION DIAGRAM AND ORDERING NUMBERS (top view)

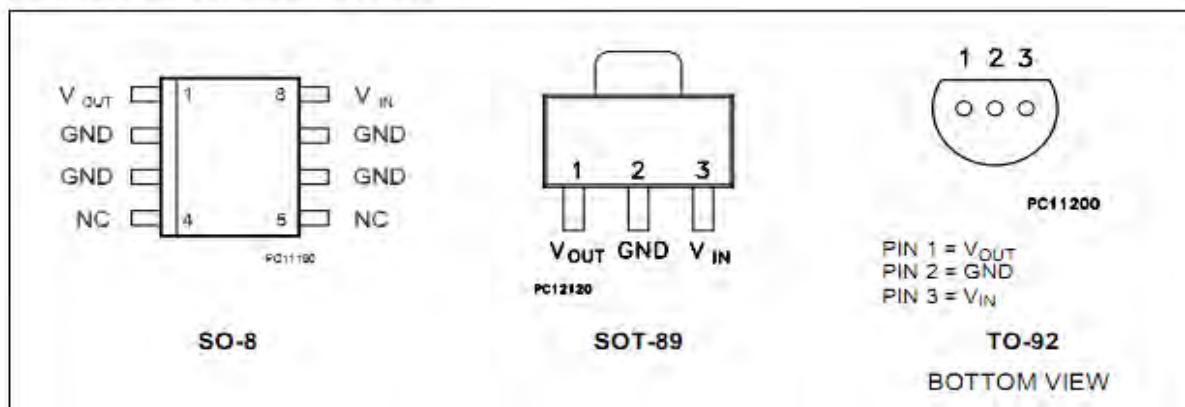


| Type | TO-220 | D ² PAK (*) | Output Voltage |
|---------|----------|------------------------|----------------|
| L7805AB | L7805ABV | L7805ABD2T | 5V |
| L7805AC | L7805ACV | L7805ACD2T | 5V |
| L7806AB | L7806ABV | L7806ABD2T | 6V |
| L7806AC | L7806ACV | L7806ACD2T | 6V |
| L7808AB | L7808ABV | L7808ABD2T | 8V |
| L7808AC | L7808ACV | L7808ACD2T | 8V |
| L7809AB | L7809ABV | L7809ABD2T | 9V |
| L7809AC | L7809ACV | L7809ACD2T | 9V |
| L7812AB | L7812ABV | L7812ABD2T | 12V |
| L7812AC | L7812ACV | L7812ACD2T | 12V |
| L7815AB | L7815ABV | L7815ABD2T | 15V |
| L7815AC | L7815ACV | L7815ACD2T | 15V |
| L7818AB | L7818ABV | | 18V |
| L7818AC | L7818ACV | | 18V |
| L7820AB | L7820ABV | | 24V |
| L7820AC | L7820ACV | | 24V |
| L7824AB | L7824ABV | | |
| L7824AC | L7824ACV | | |

(*) AVAILABLE IN TAPE AND REEL WITH '-TR' SUFFIX

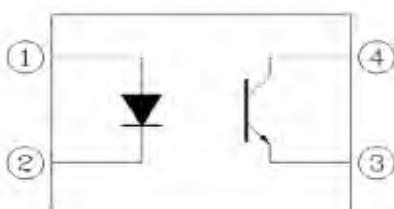
IC99 CVL78L24AB REGULATOR (24V, TO-92L)

CONNECTION DIAGRAM (top view)



PC89 CVIEL817B PHOTO COUPLED

Schematic



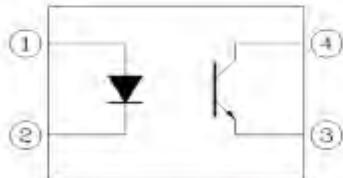
Pin Configuration

1. Anode
2. Cathode

- 3. Emitter
- 4. Collector

PC90 CVIEL357NB PHOTO COUPLER (4P, SMD)

Schematic



Pin Configuration

1. Anode
2. Cathode
3. Emitter
4. Collector

IC1500 CVIAZ4580MTR-E1 OPAMP(DUAL/LOW NOISE)

Pin Configuration

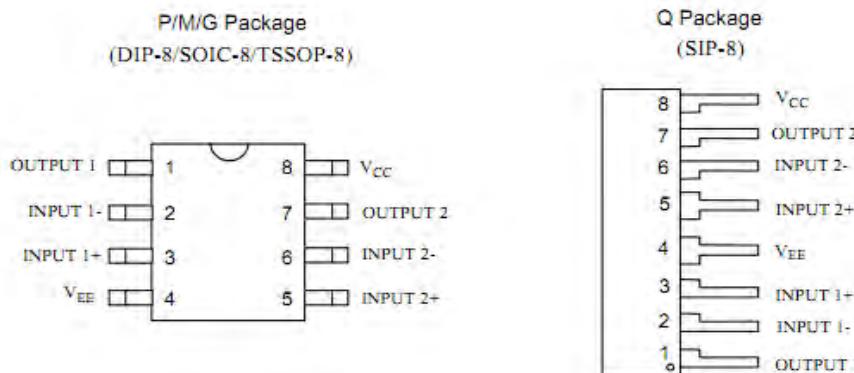


Figure 2. Pin Configuration of AZ4580 (Top View)

Pin Description

| Pin No. | Function |
|---------|----------|---------|----------|---------|----------|---------|-----------------|
| 1 | OUTPUT 1 | 2 | INPUT 1- | 3 | INPUT 1+ | 4 | V _{EE} |
| 5 | INPUT 2+ | 6 | INPUT 2- | 7 | OUTPUT 2 | 8 | V _{CC} |

IC1302 CVICS495314CVZ DSP AUDIO DECODER(LQFP-128P)

8.2 128-pin LQFP Pinout Diagrams (CS495304/CS495314)

The CS495304/CS495314 DSP with a 128-pin package is recommended for new designs. See [Section 2](#), for details about this Cirrus Logic recommendation.

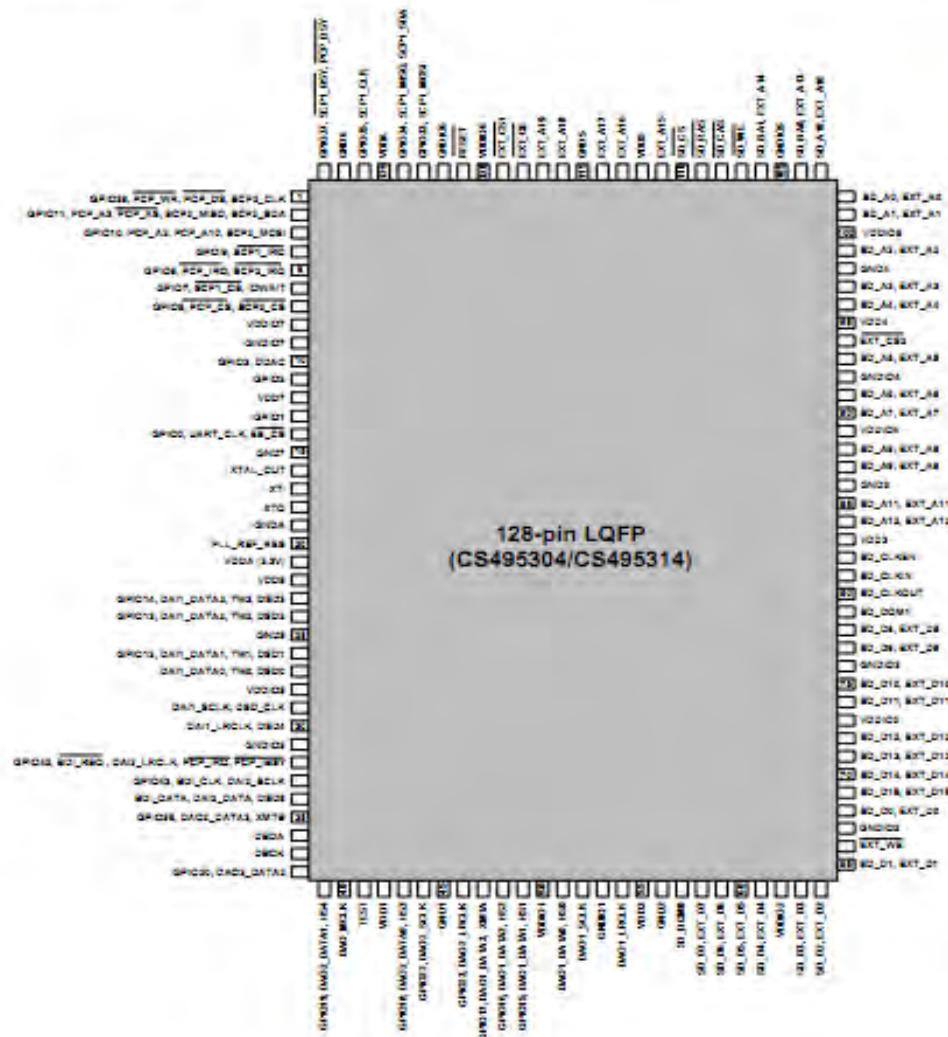
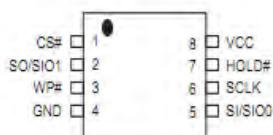


Figure 20. 128-pin LQFP Pin-Out Drawing (CS495304/CS495314)

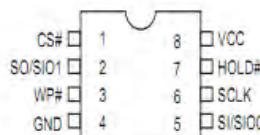
IC1101,IC1305 CVIMX25L8006EM2I-12G SERIAL FLASH(8M)

PIN CONFIGURATIONS

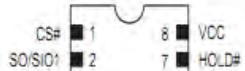
8-PIN SOP (200mil, 150mil)



8-PIN PDIP (300mil)



8-LAND WSON (6x5mm), USON (4x4mm)



PIN DESCRIPTION

| SYMBOL | DESCRIPTION |
|---------------|--|
| CS# | Chip Select |
| SPIIN | Serial Data Input (for 1 x I/O), Serial Data |

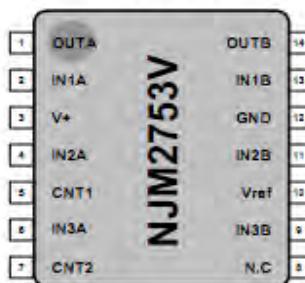


| | | | | | |
|-----|---|---|---------|---------|---|
| WP# | 3 | 6 | SCLK | SI/SIO0 | Input & Output (for Dual Output mode) |
| GND | 4 | 5 | SI/SIO0 | SO/SIO1 | Serial Data Output (for 1 x I/O)/ Serial Data Output (for Dual Output mode) |
| | | | | SCLK | Clock Input |
| | | | | WP# | Write protection |
| | | | | HOLD# | Hold, to pause the device without deselecting the device |
| | | | | VCC | + 3.3V Power Supply |
| | | | | GND | Ground |

IC1511 CVINJM2753V Stereo Audio Selector(SSOP14)

■ PIN CONFIGURATIONS NJM2753 SSOP14

SSOP14

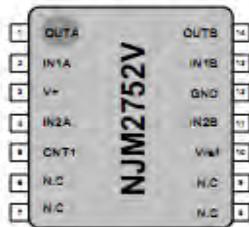


| PIN.No. | SYMBOL | FUNCTION | PIN.No. | SYMBOL | FUNCTION |
|---------|--------|--------------------------|---------|--------|---------------------|
| 1 | OUTA | Ach Output Terminal | 8 | N.C. | No Connection |
| 2 | IN1A | Ach Input Terminal1 | 9 | IN3B | Bch Input Terminal3 |
| 3 | V+ | Power Supply Terminal | 10 | Vref | Reference Terminal |
| 4 | IN2A | Ach Input Terminal2 | 11 | IN2B | Bch Input Terminal2 |
| 5 | CNT1 | Control Switch Terminal1 | 12 | GND | GND Terminal |
| 6 | IN3A | Ach Input Terminal2 | 13 | IN1B | Bch Input Terminal1 |
| 7 | CNT2 | Control Switch Terminal2 | 14 | OUTB | Bch Output Terminal |

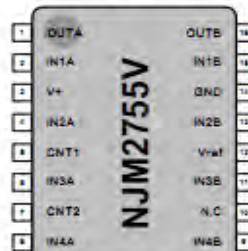
[Reference]

The NJM2753 contains compatibility with NJM2752 (2in-1out SW), NJM2755 (4in-1out SW).

NJM2752

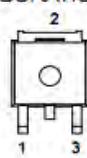


NJM2755

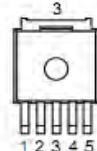


IC1309 CVINJM2845DL118 REGULATOR(1.8V/TO-252)

■ PIN CONFIGURATION



1.V_{IN}
2.GND
3.V_{OUT}

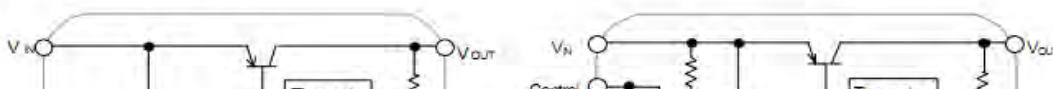


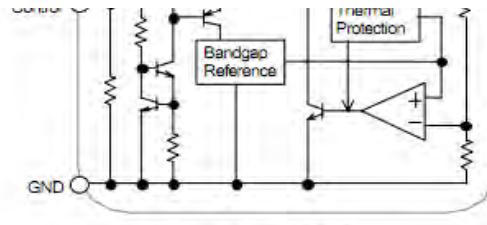
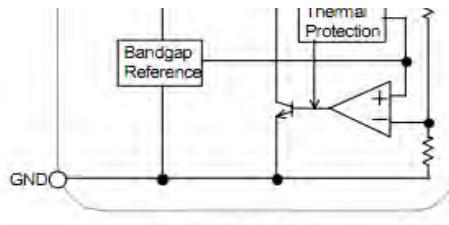
1.CONTROL
2.V_{IN}
3.GND
4.V_O
5.NC

NJM2845DL1

NJM2846DL3

■ EQUIVALENT CIRCUIT





IC1301 HVICS42528-CQ CODEC + DIR (CIRRUS LOGIC)

3 TYPICAL CONNECTION DIAGRAMS

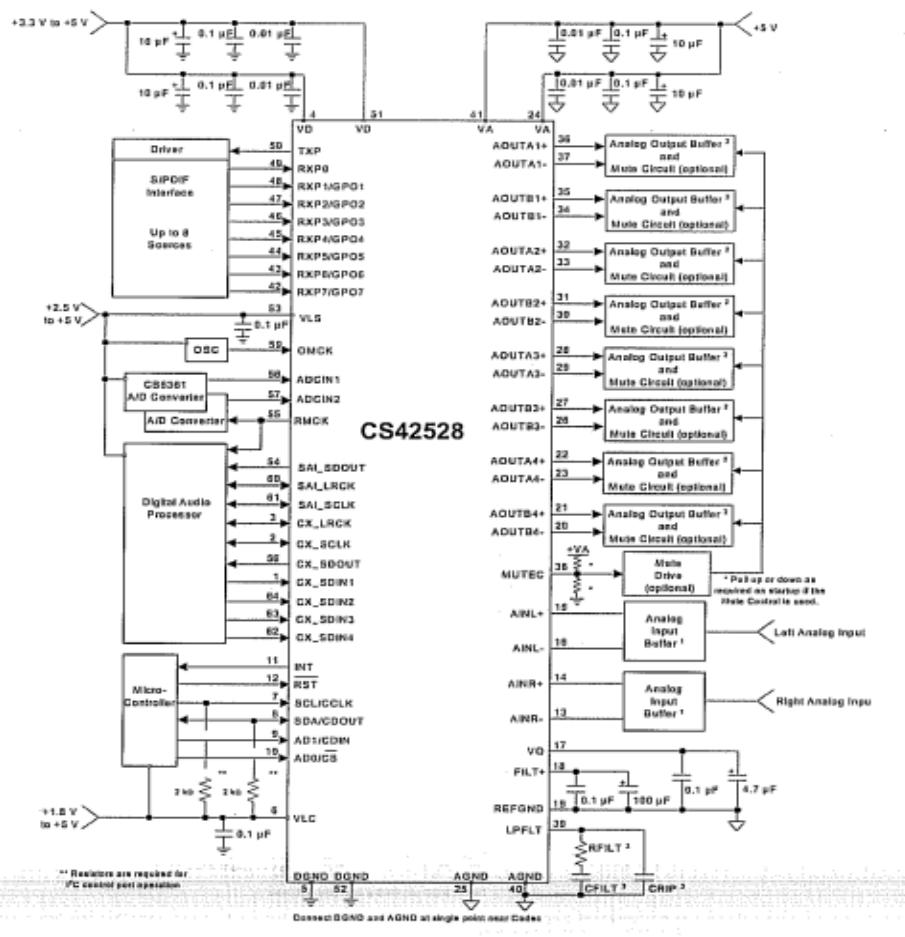
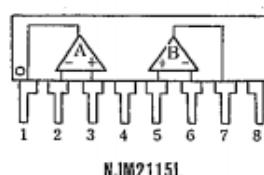
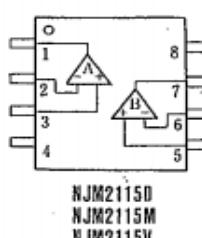


Figure 5. Typical Connection Diagram

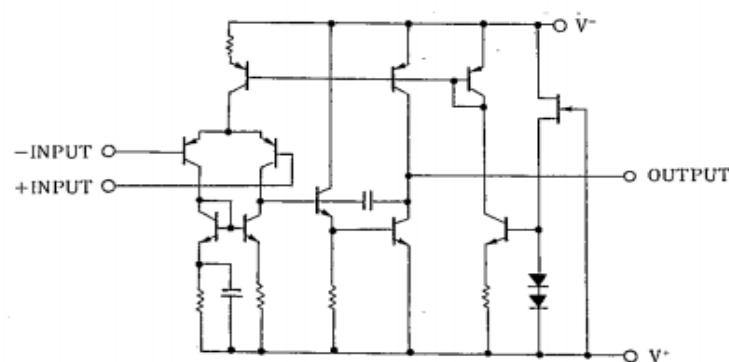
IC1306, IC1307 HVINJM2115MTE1 OP AMP

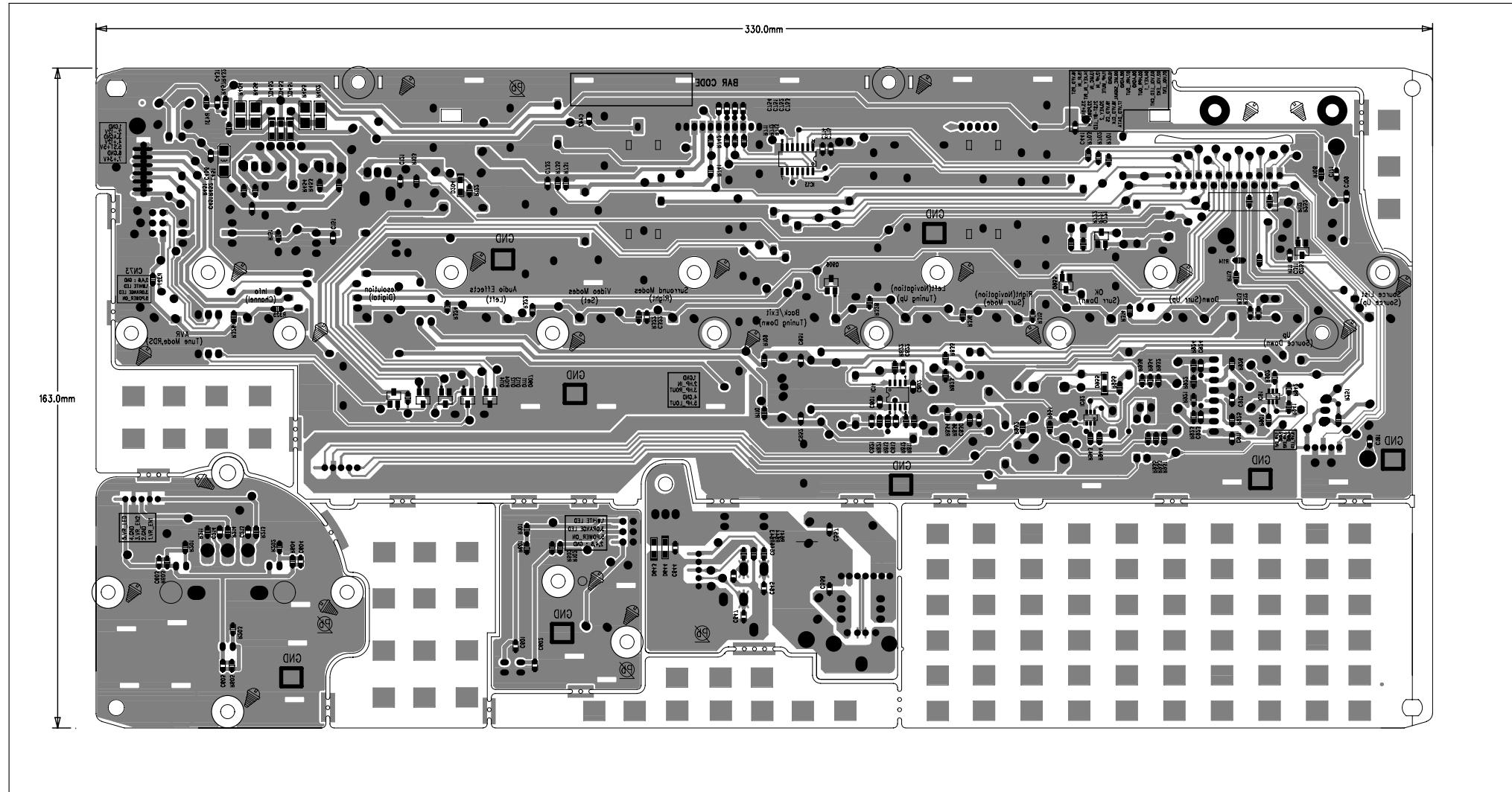
■ PIN CONFIGURATION

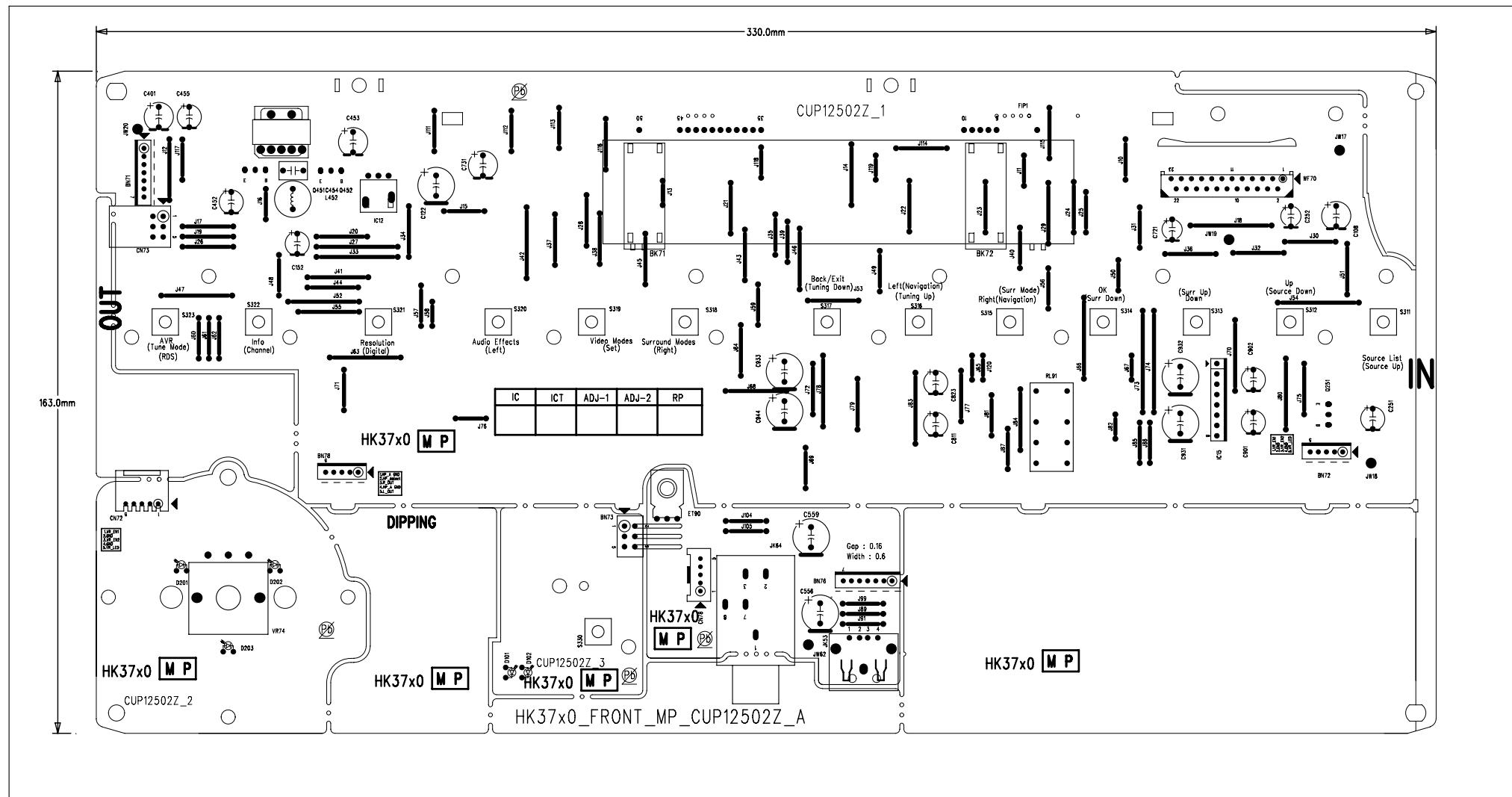


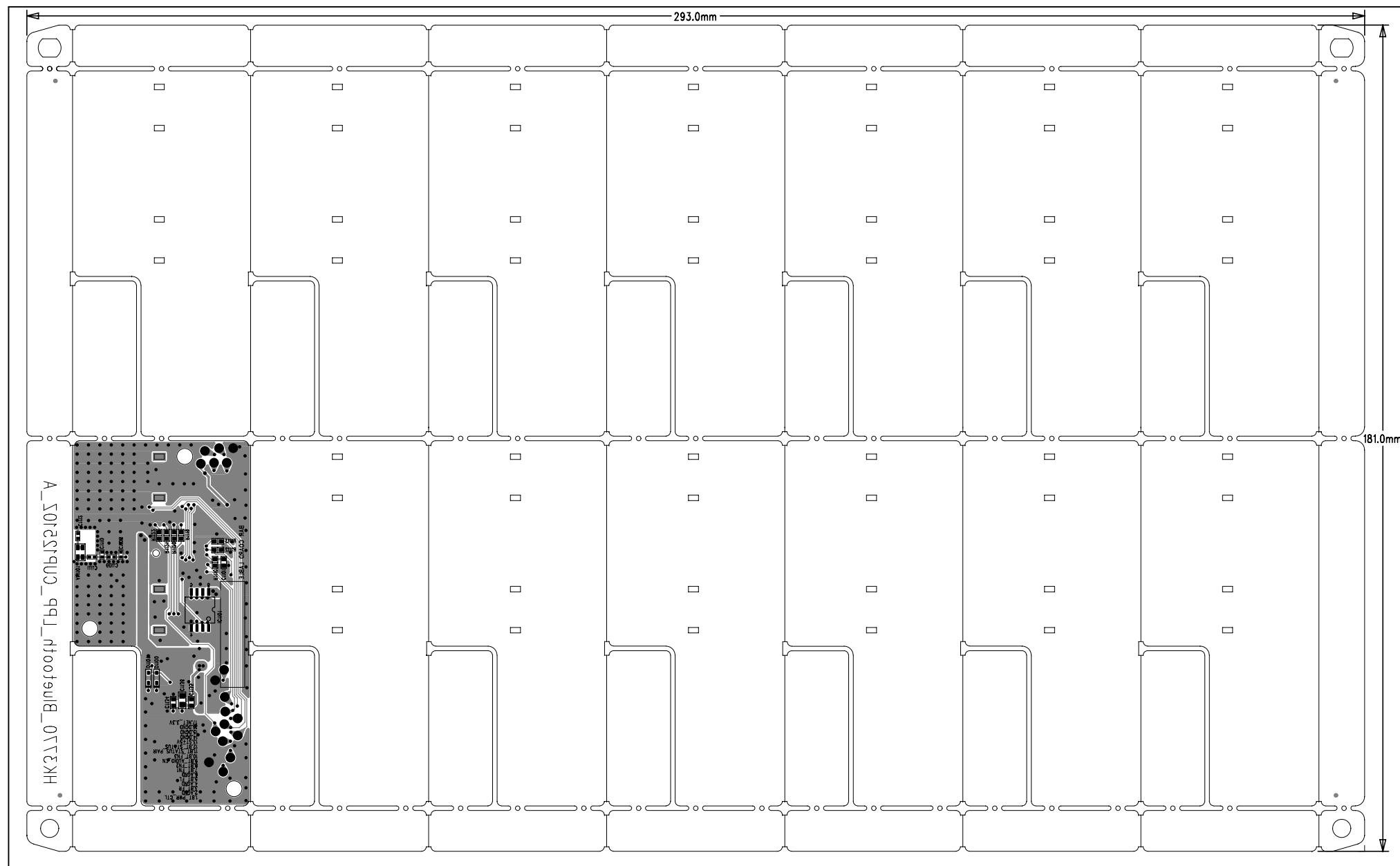
| PIN FUNCTION | |
|--------------|----------|
| 1. | A OUTPUT |
| 2. | A -INPUT |
| 3. | A +INPUT |
| 4. | V- |
| 5. | B +INPUT |
| 6. | B -INPUT |
| 7. | B OUTPUT |
| 8. | V+ |

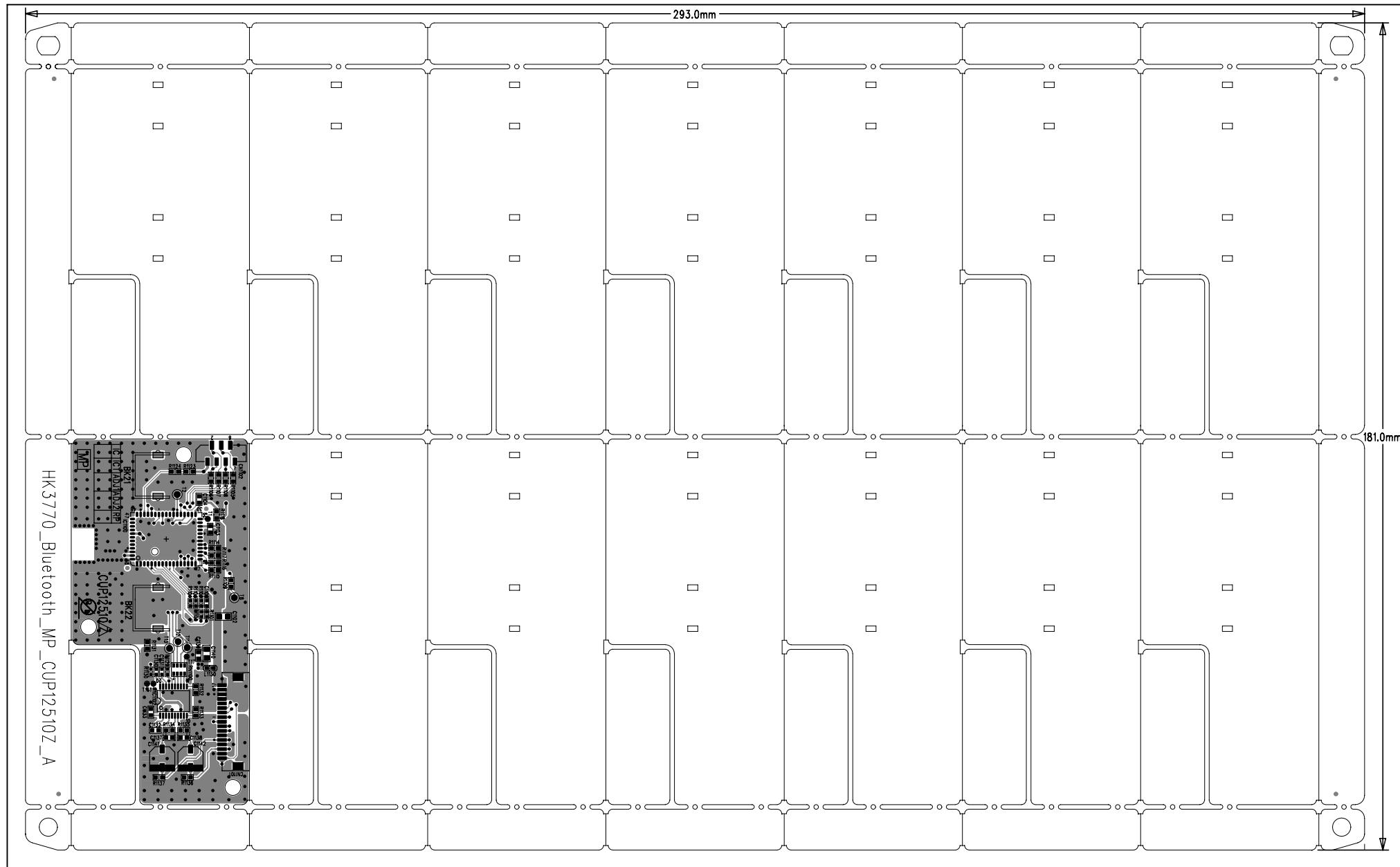
■ EQUIVALENT CIRCUIT (1/2 Shown)

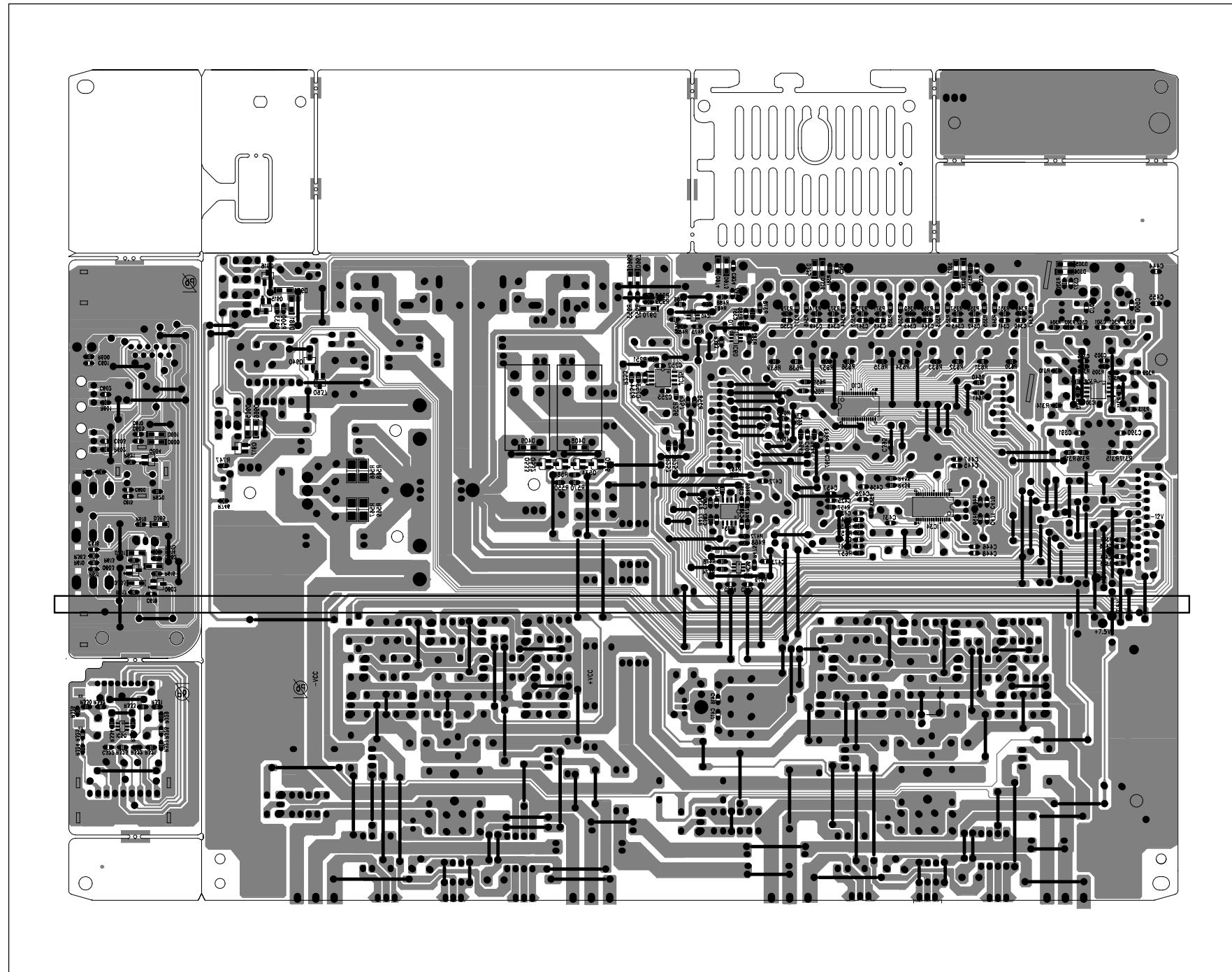
■ EQUIVALENT CIRCUIT (1/4 SHOWN)

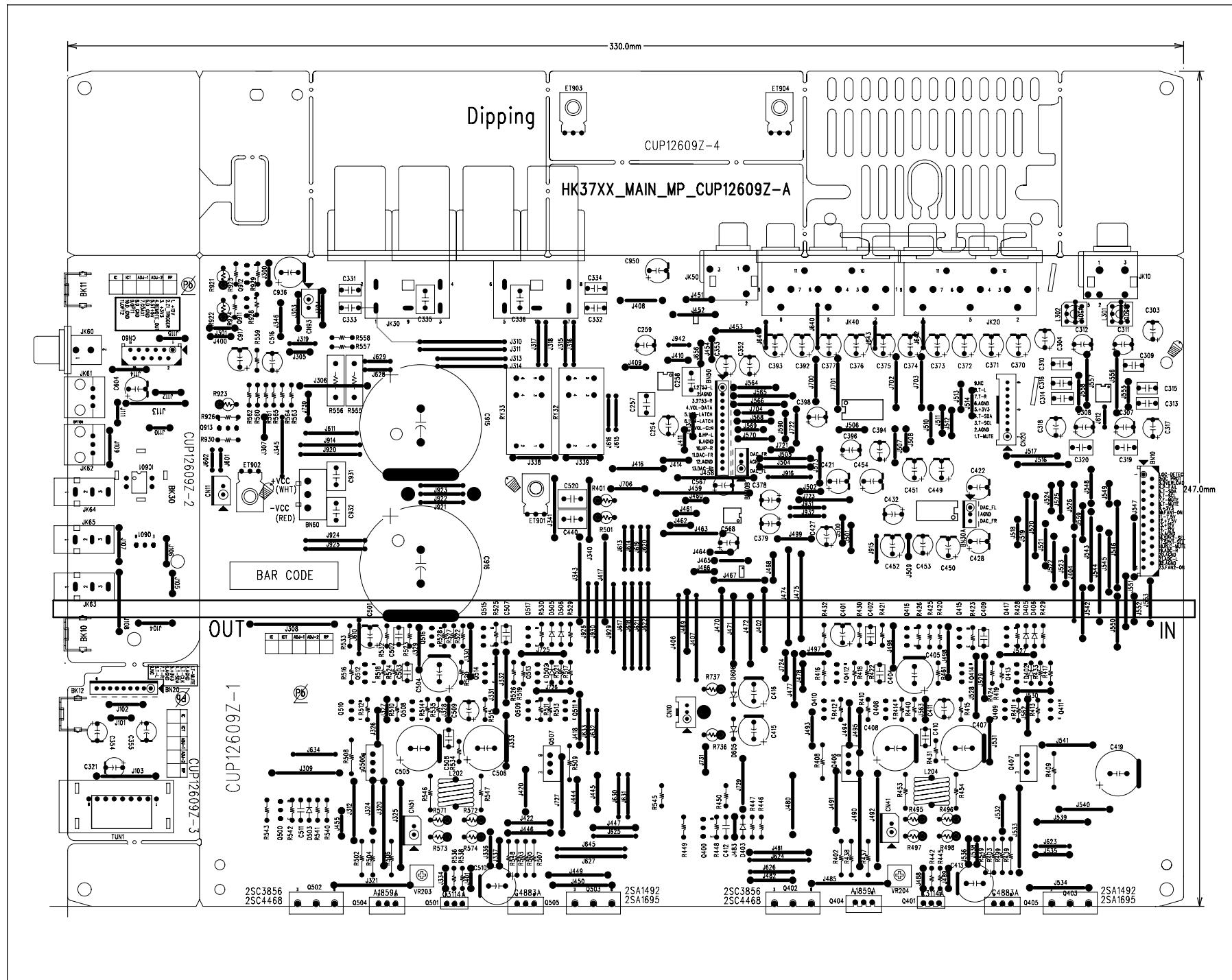


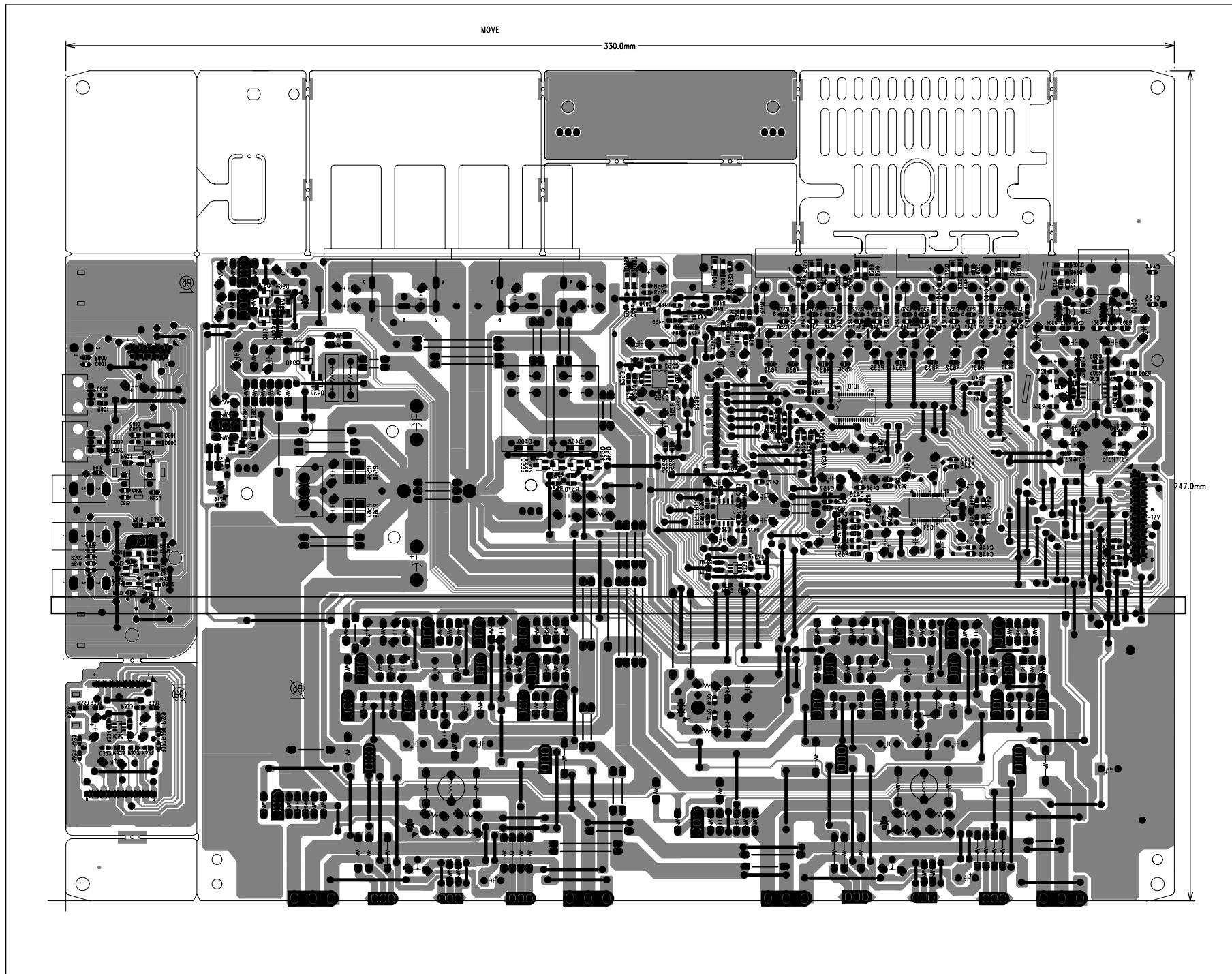


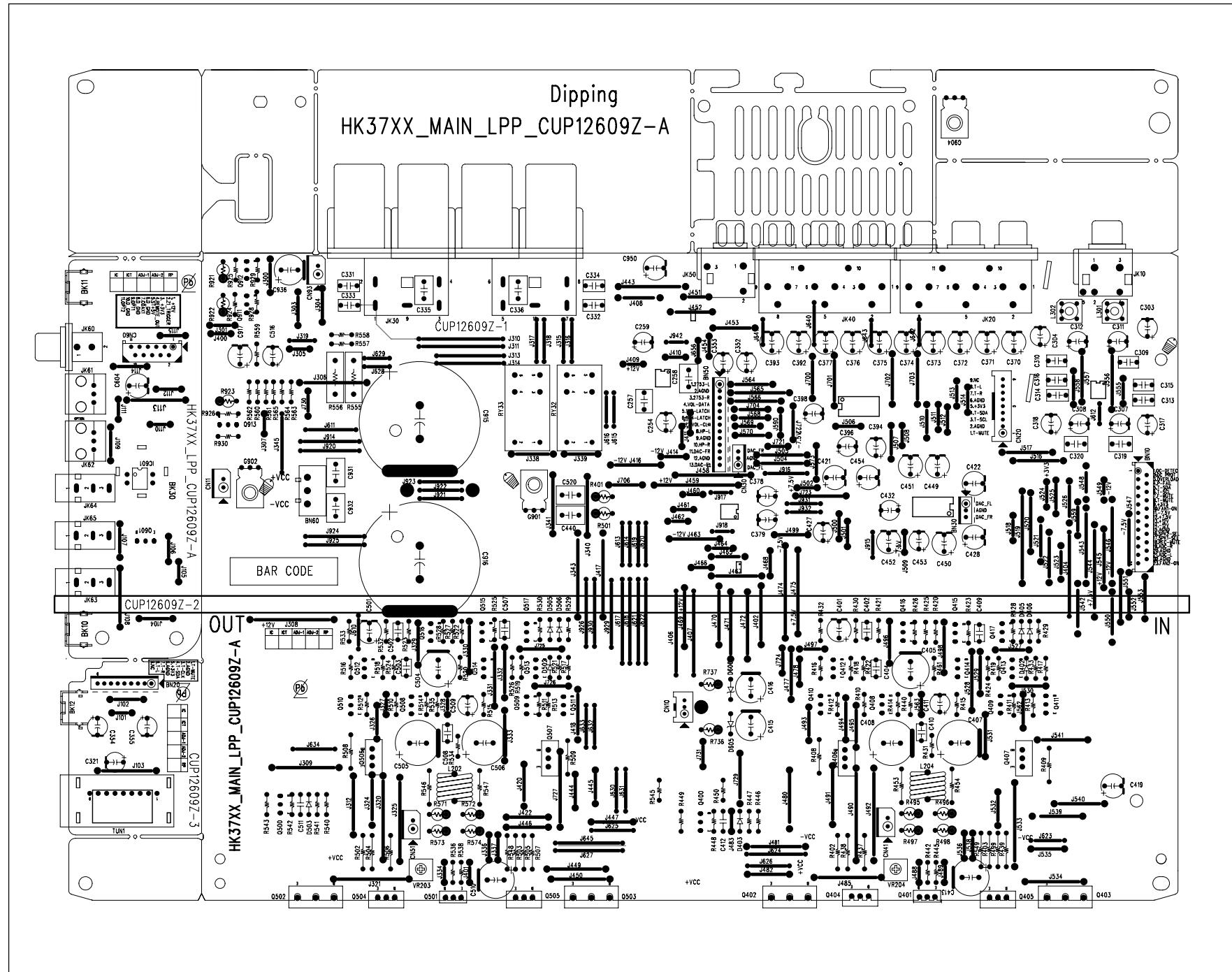


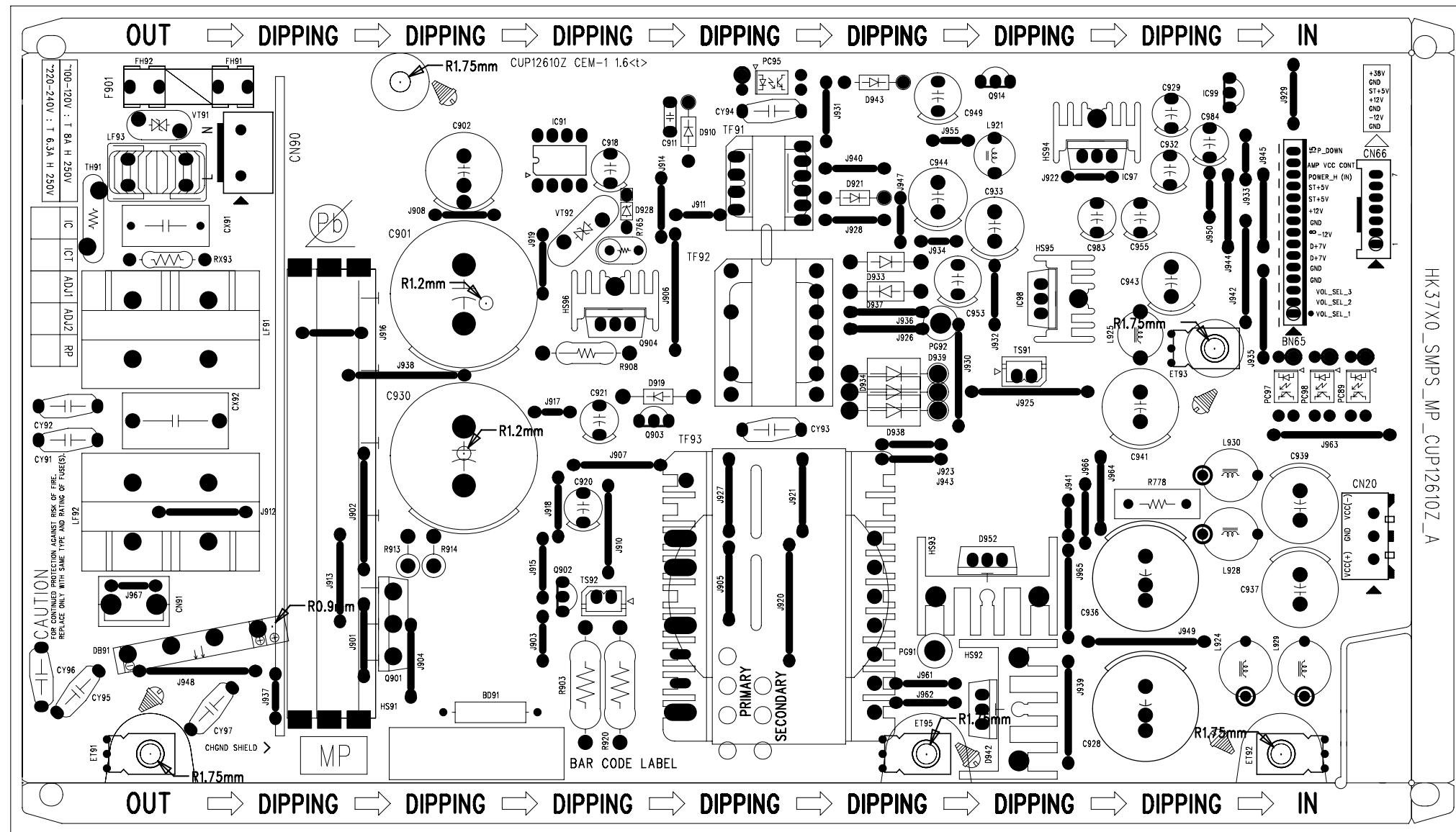


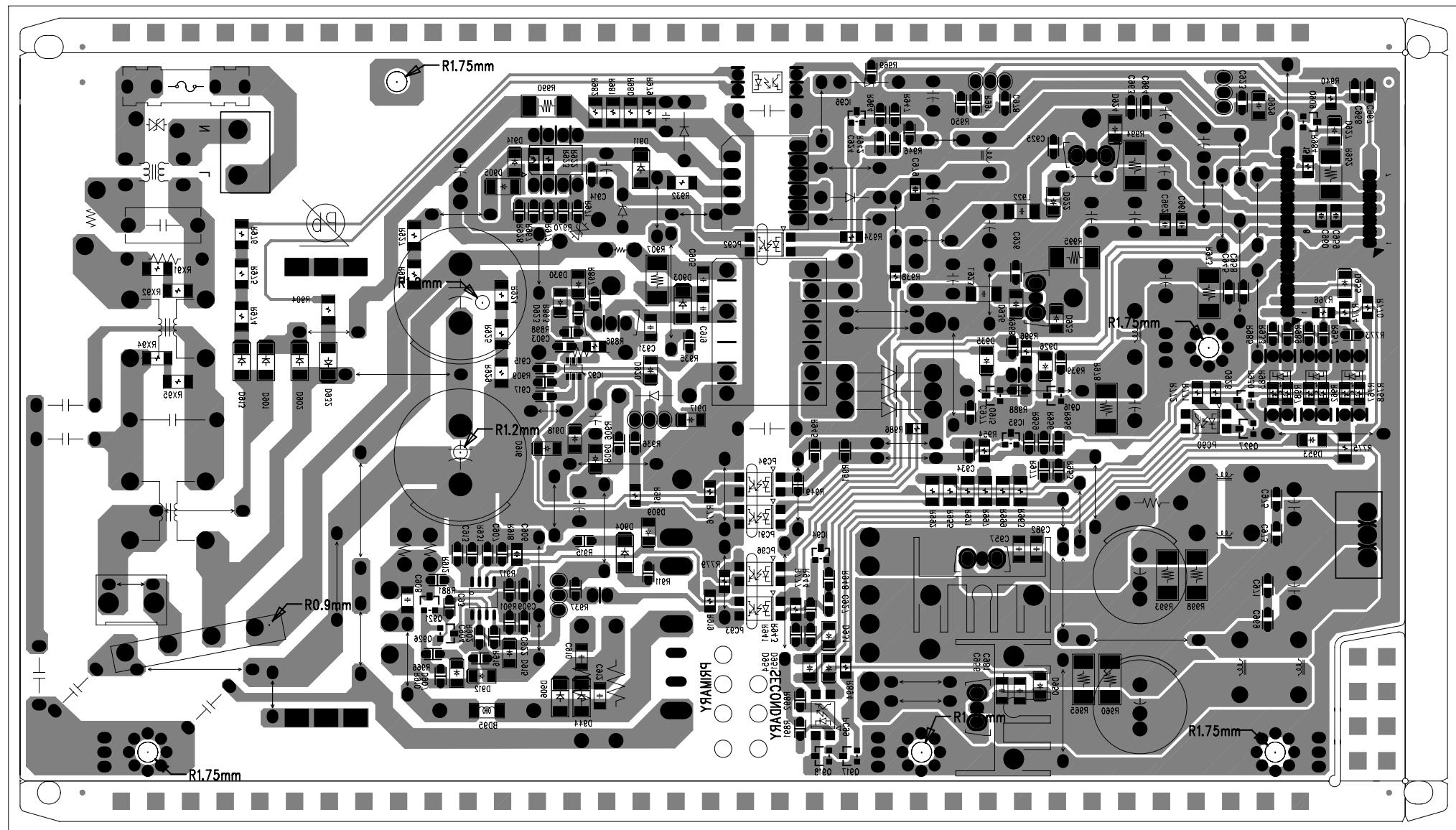


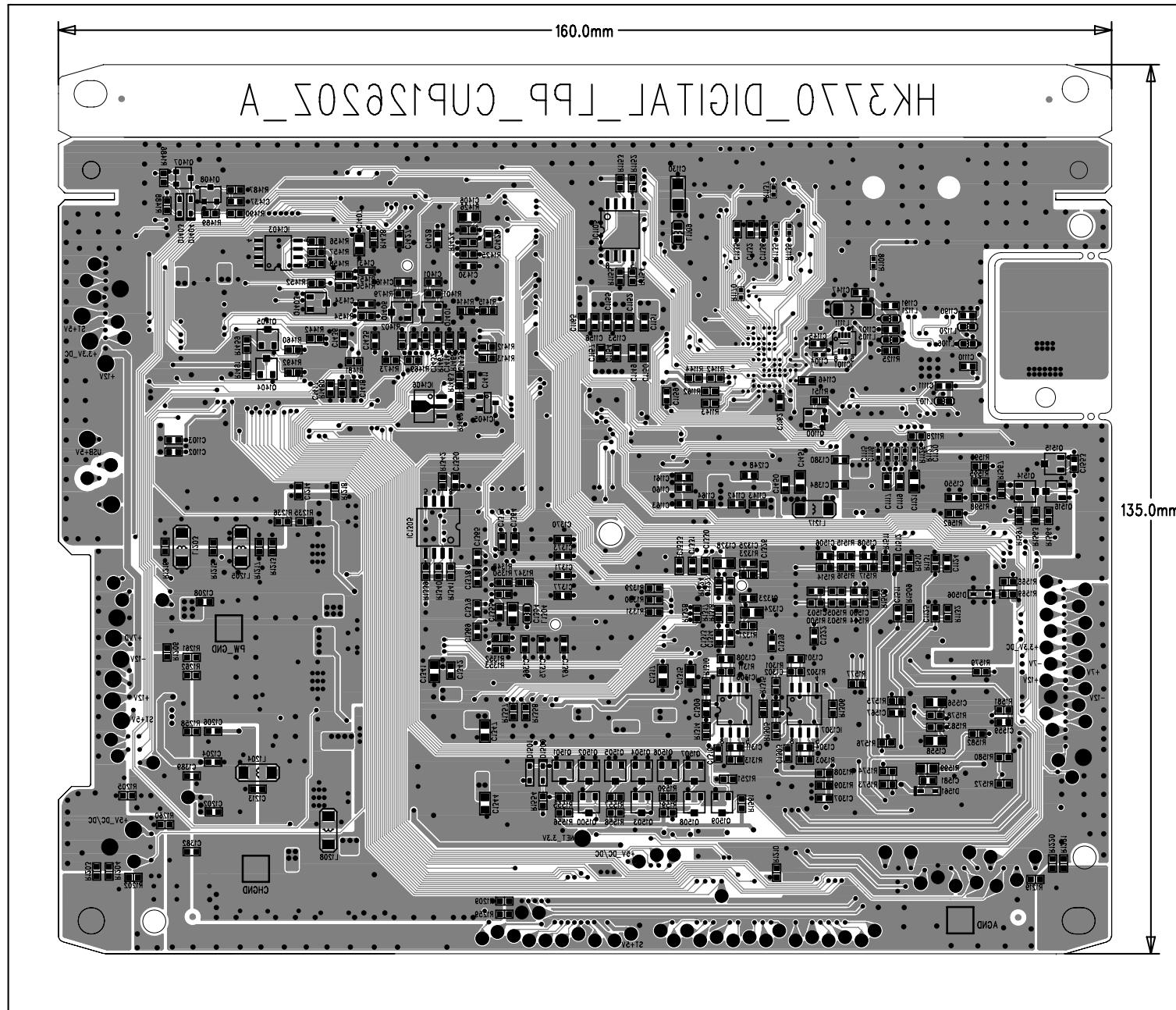


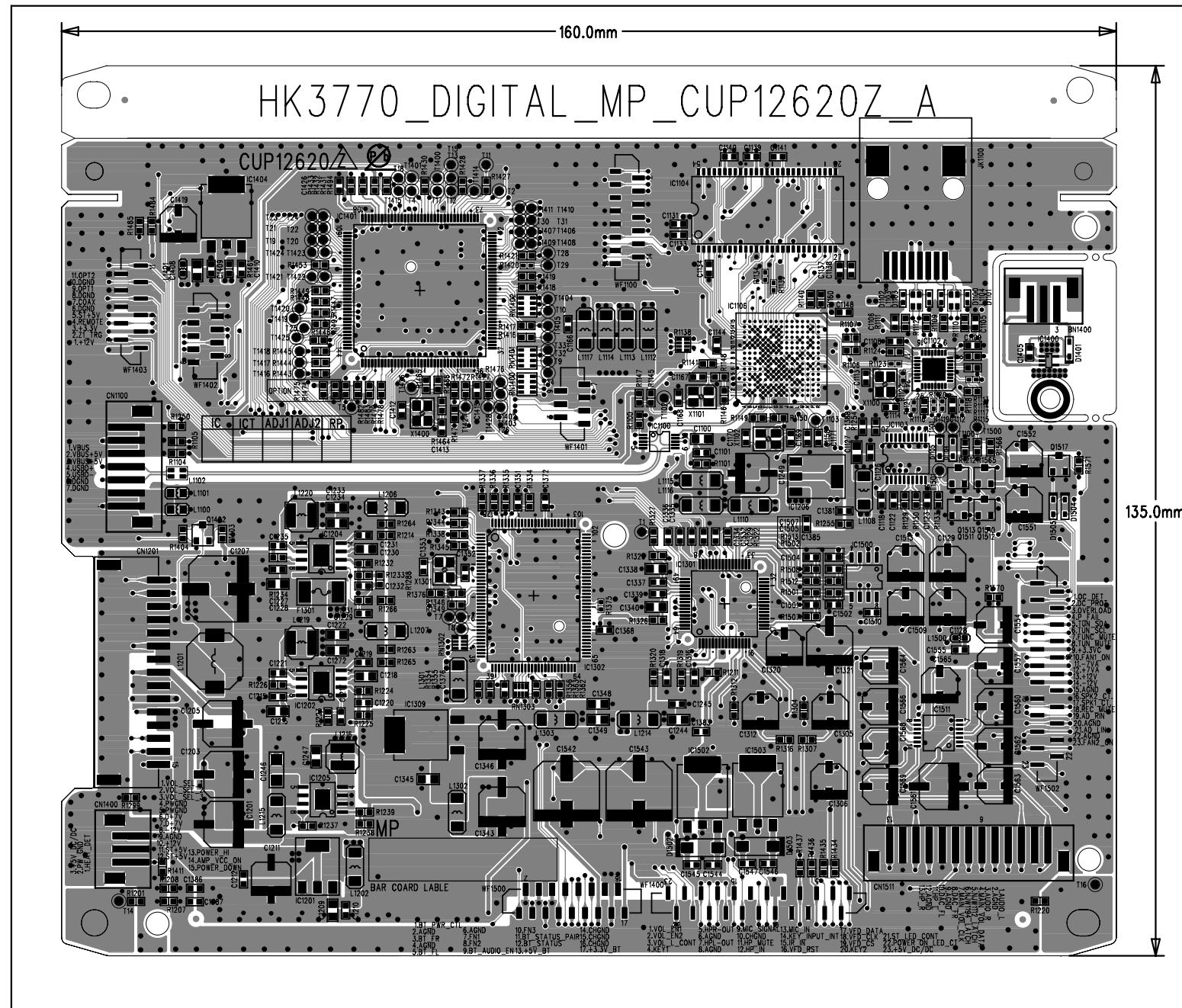


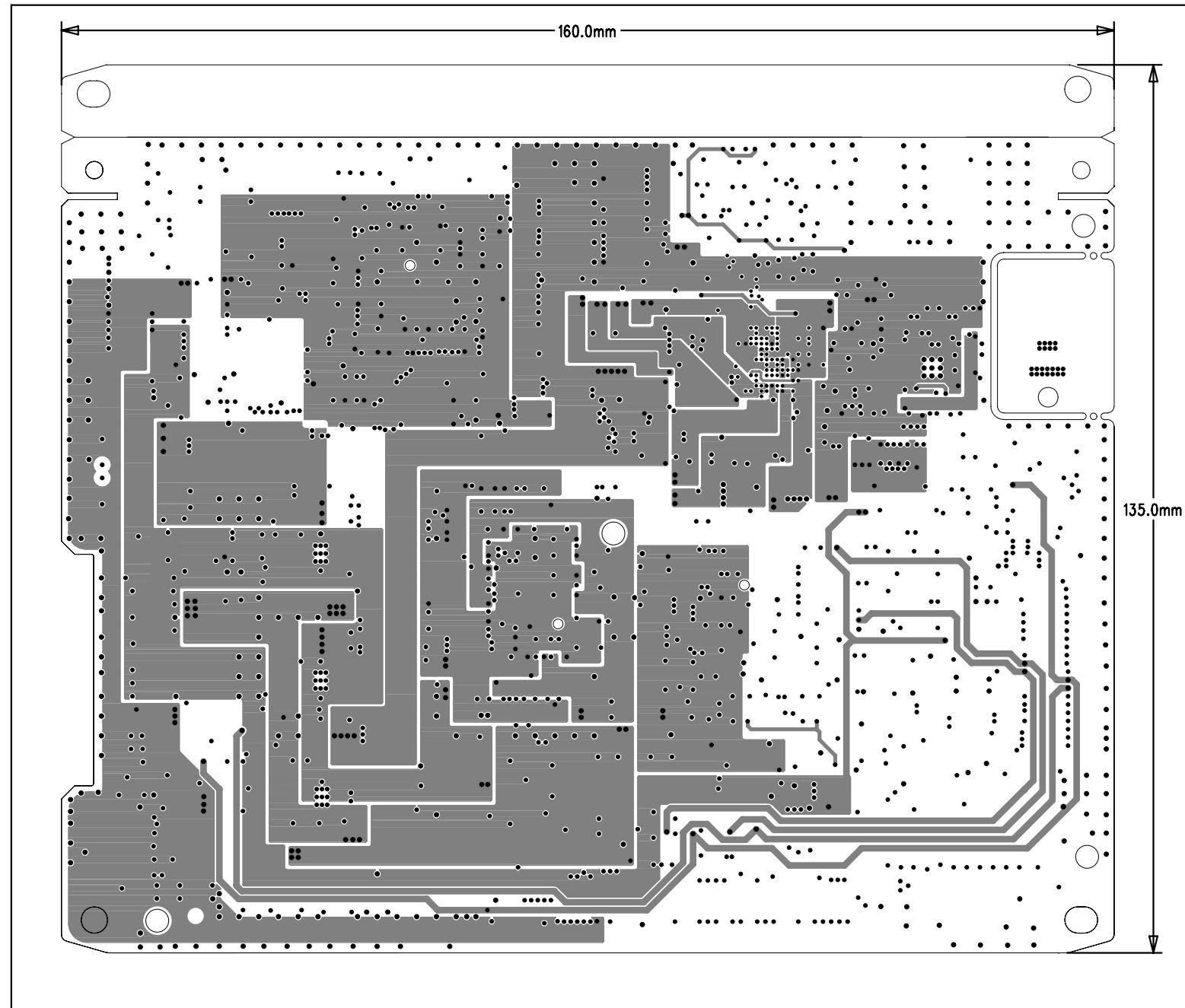


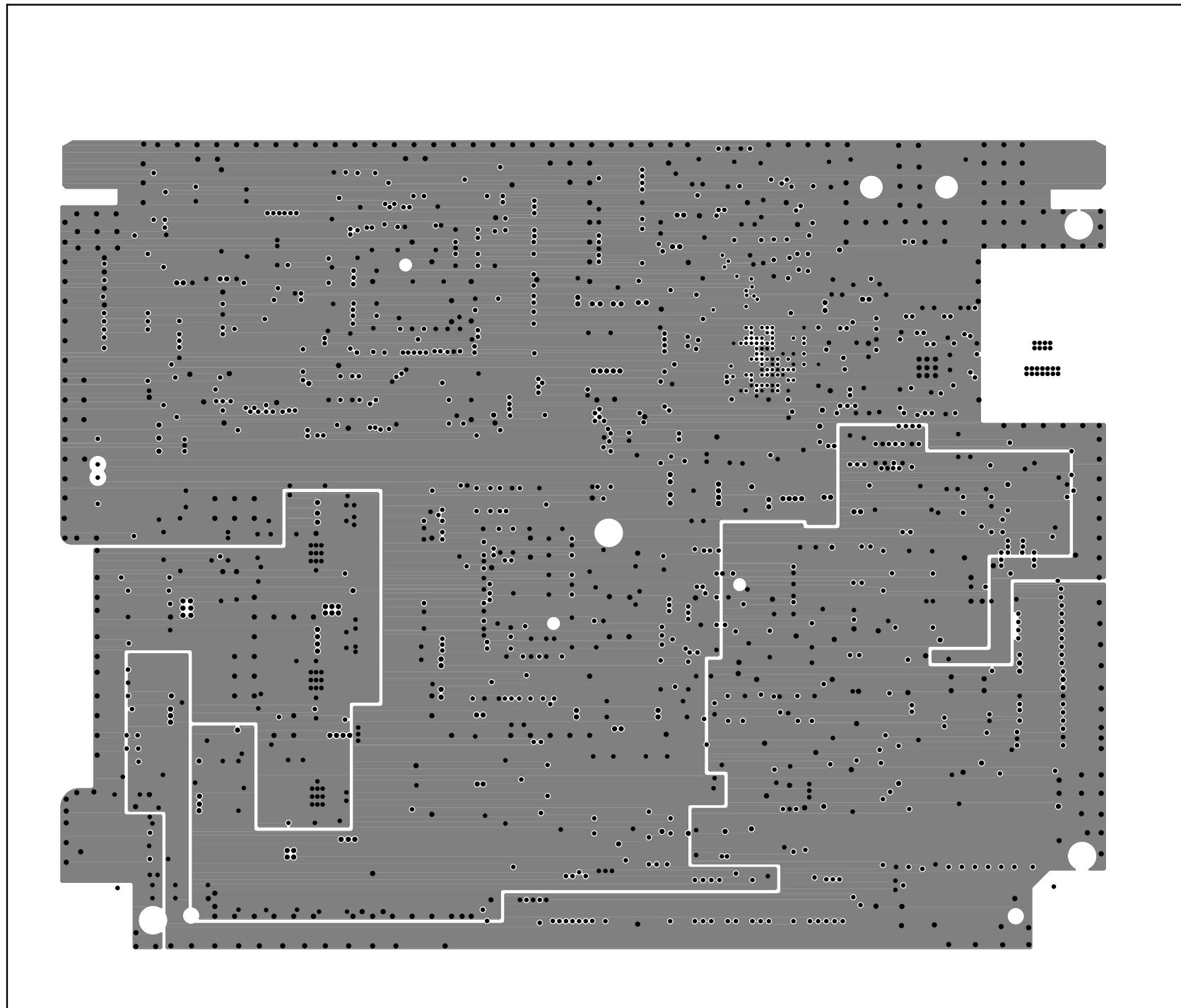


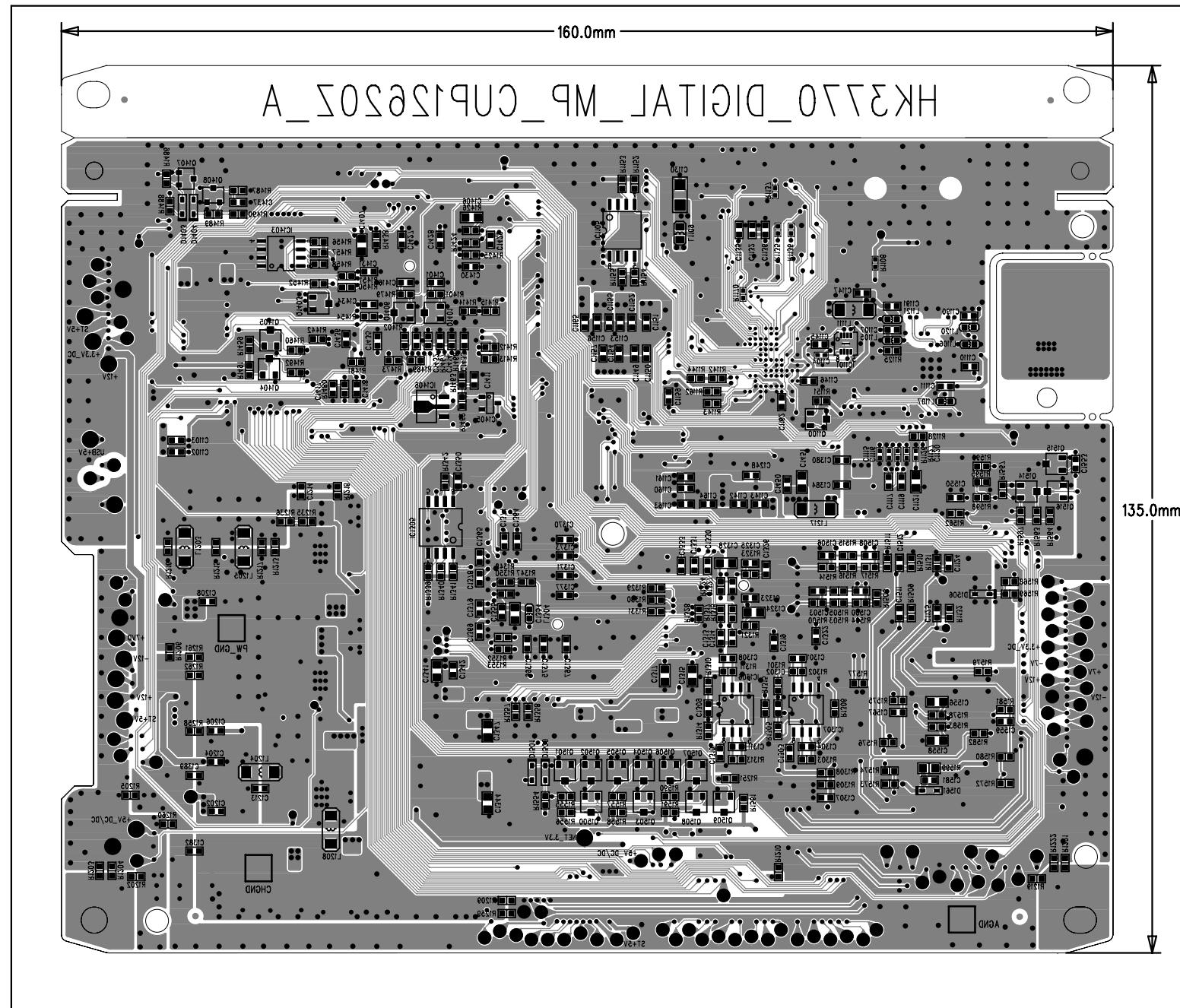


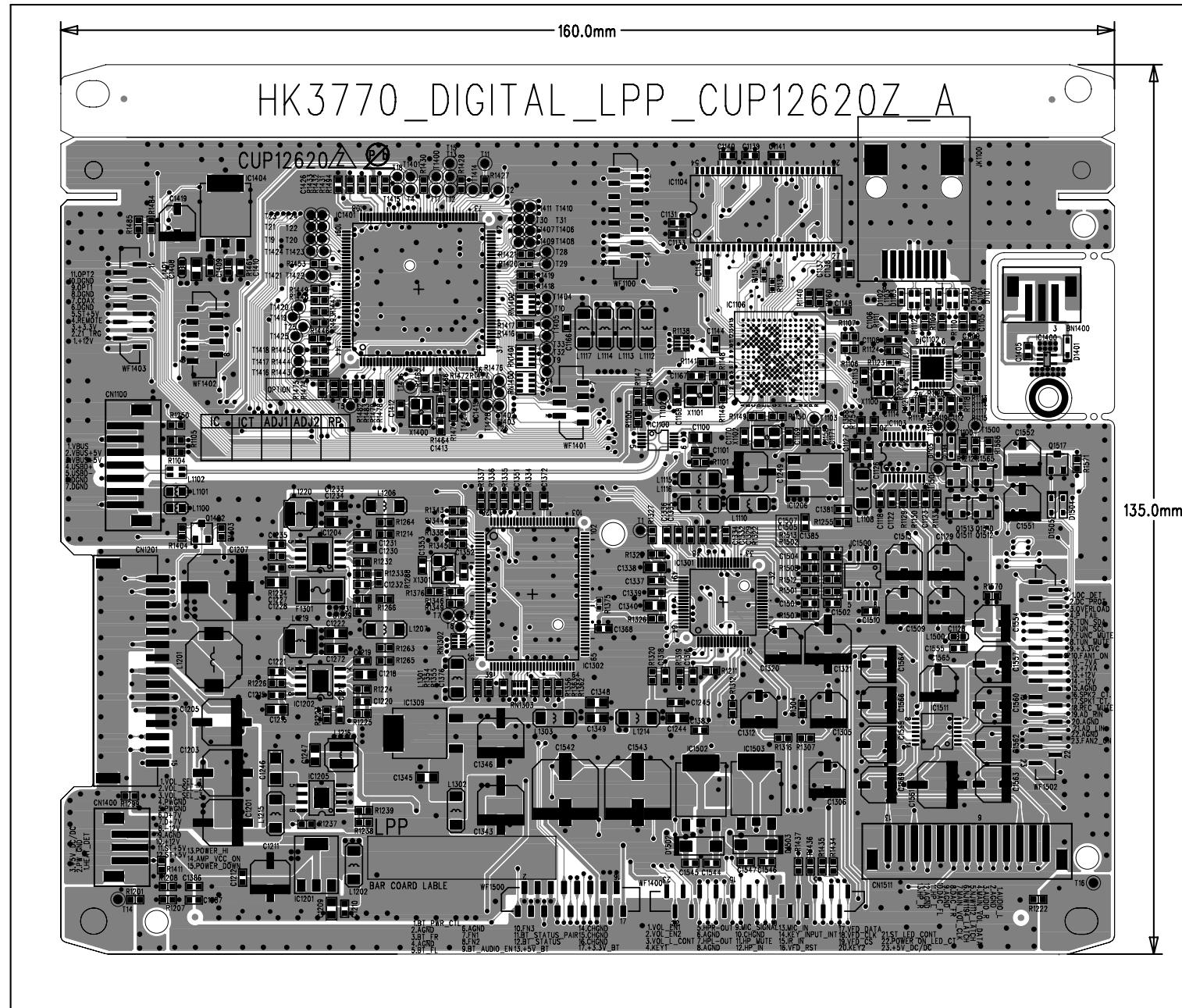


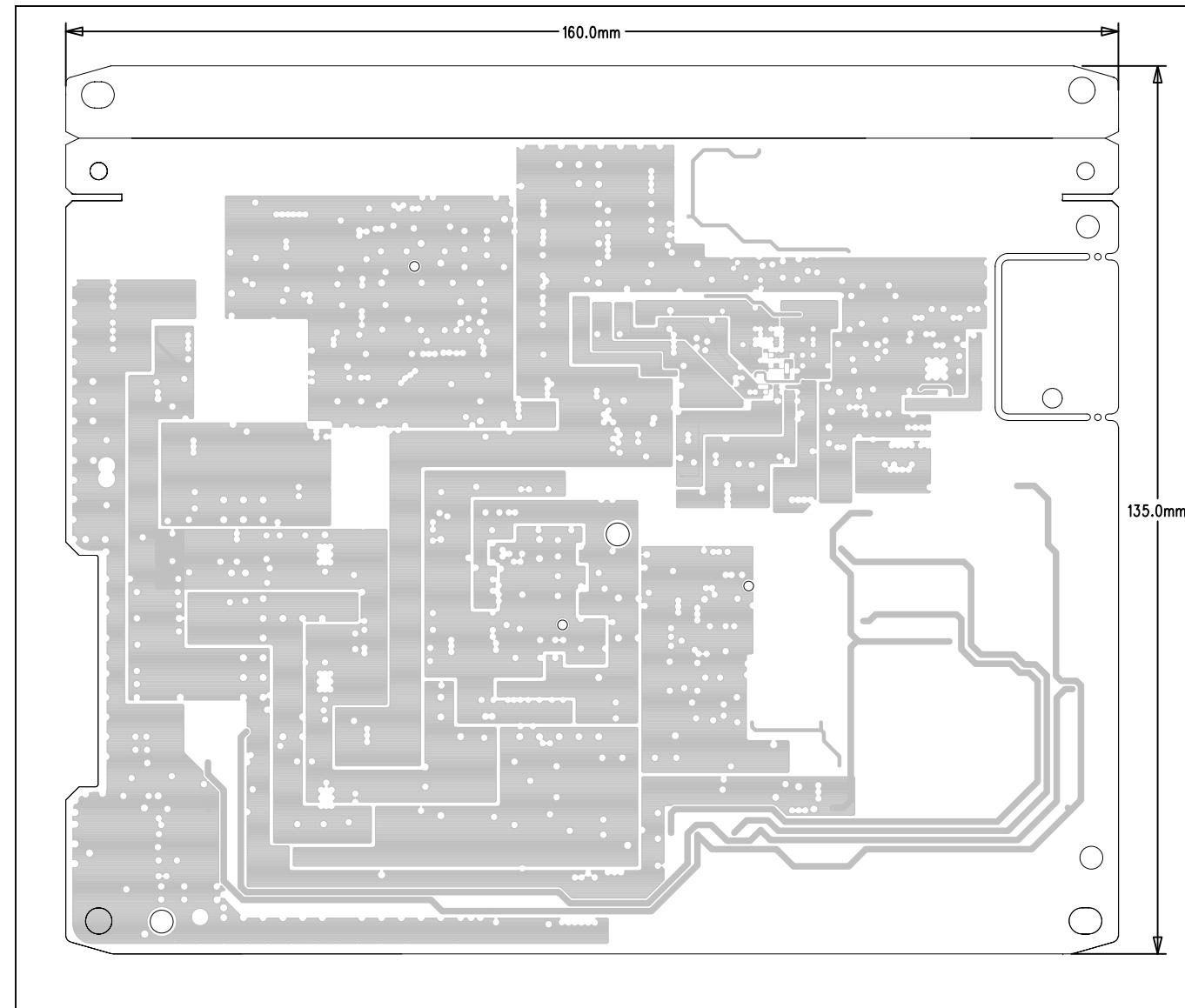


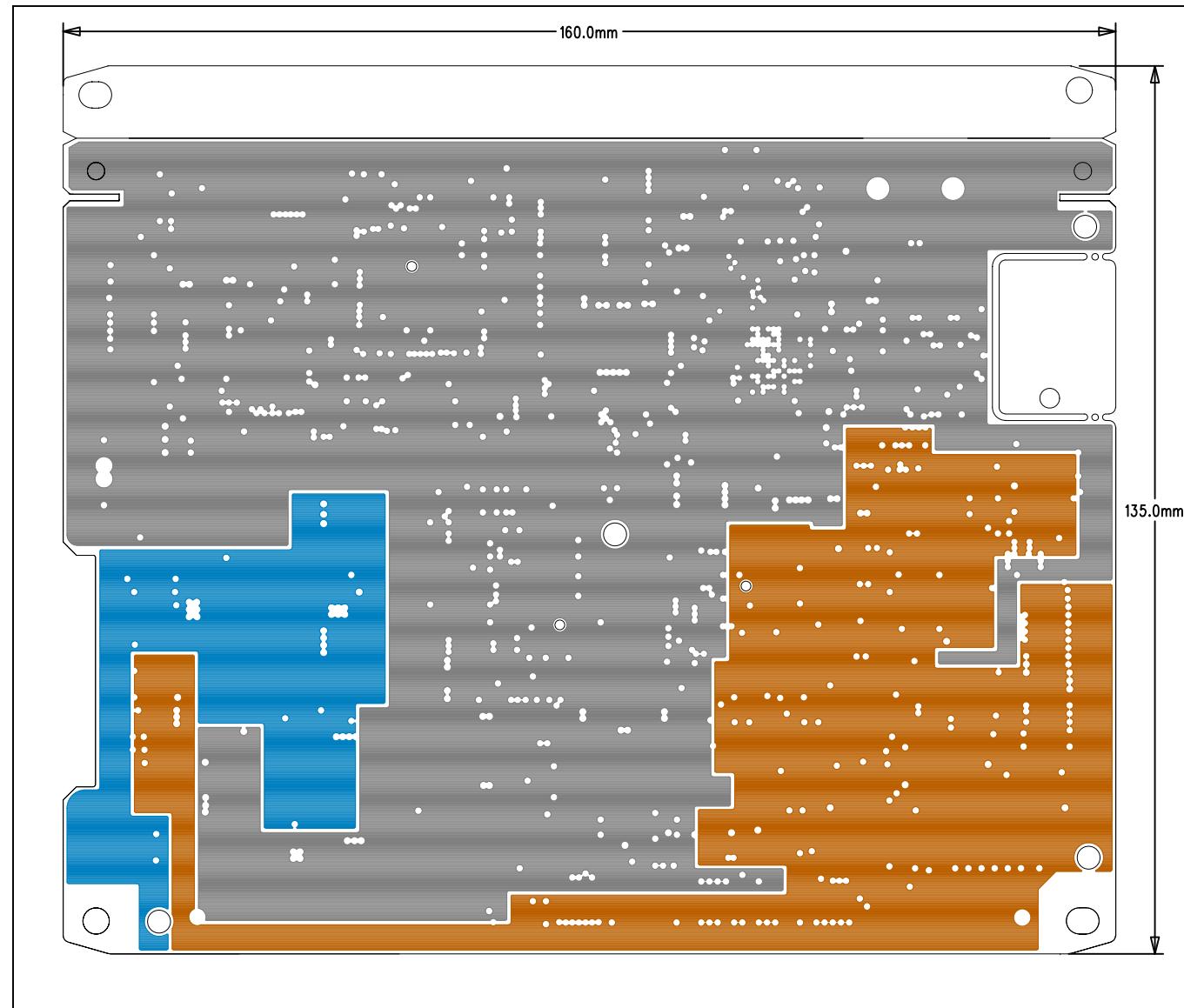








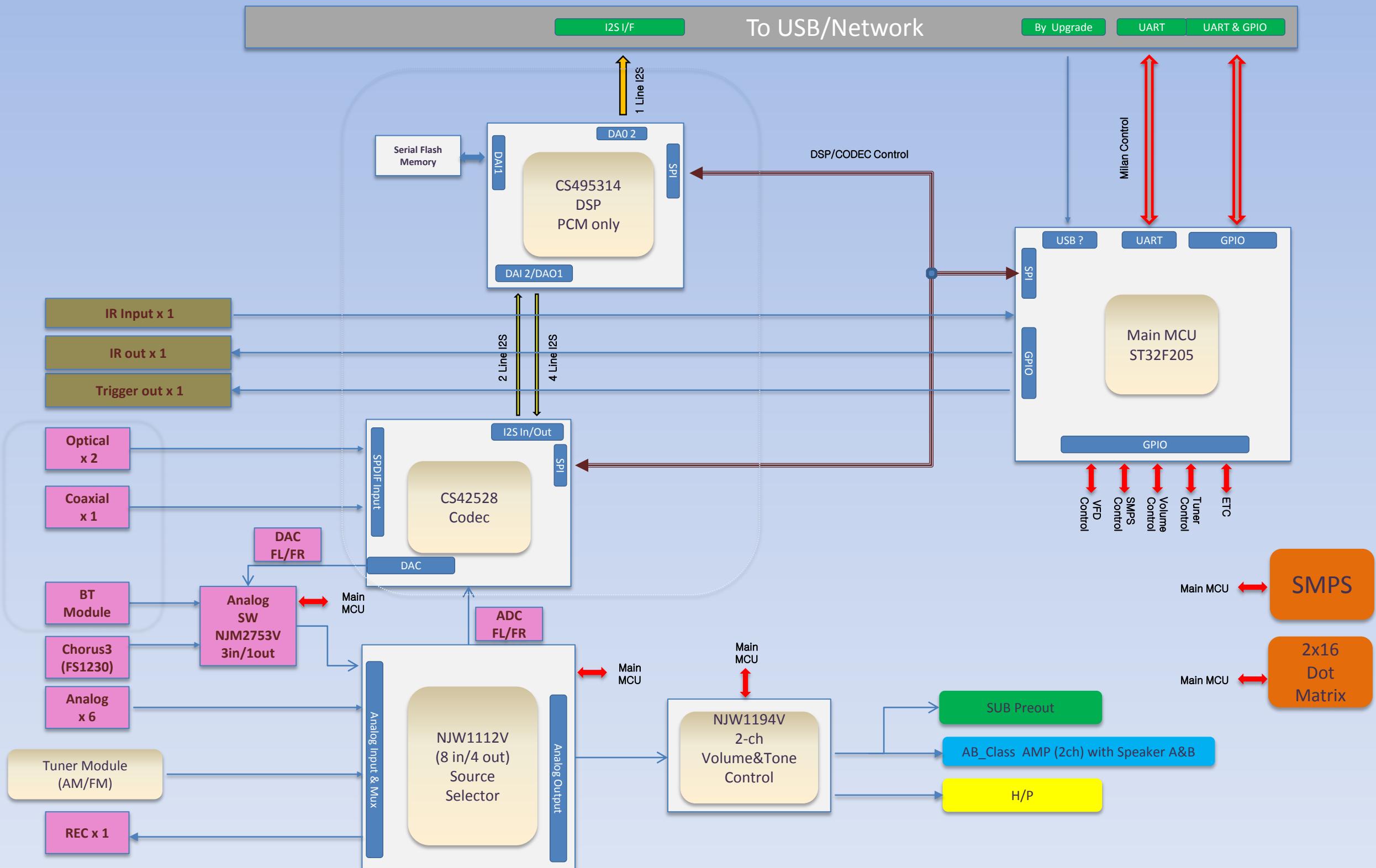




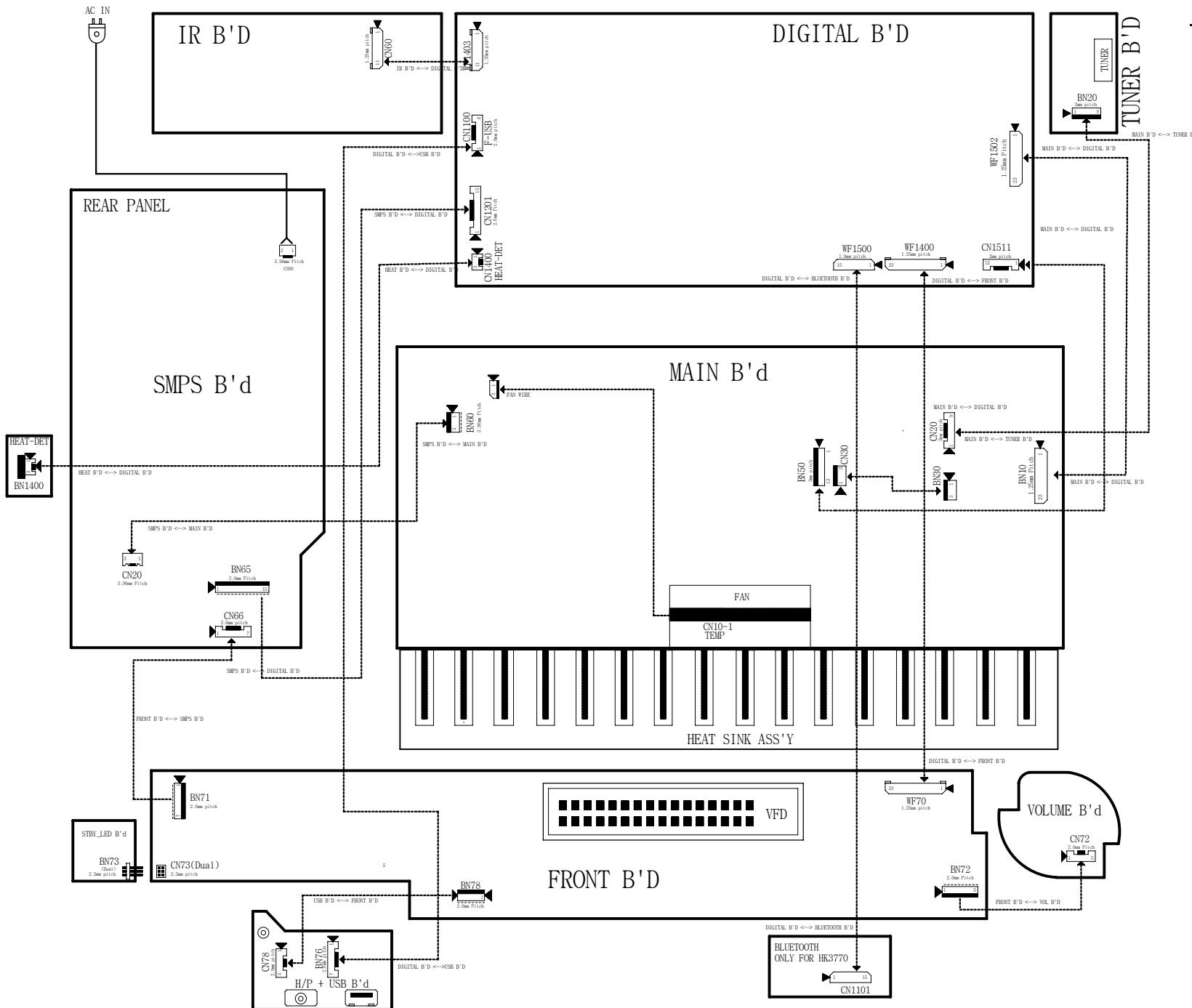
HK37xx Block Diagram (USB + Network)



HK37xx Block Diagram (Audio + MCU)



POWER CORD TYPE
120V : FIXED TYPE
230V : IEC Removable



WIRING DIAGRAM

MP

ISSUE
ANAM
MULTI. LAB
2013.07.03

| | | | |
|----------|---|---|---|
| REVISION | 2 | 4 | 6 |
| 1 | 3 | 5 | 7 |

SCHEMATIC DIAGRAM

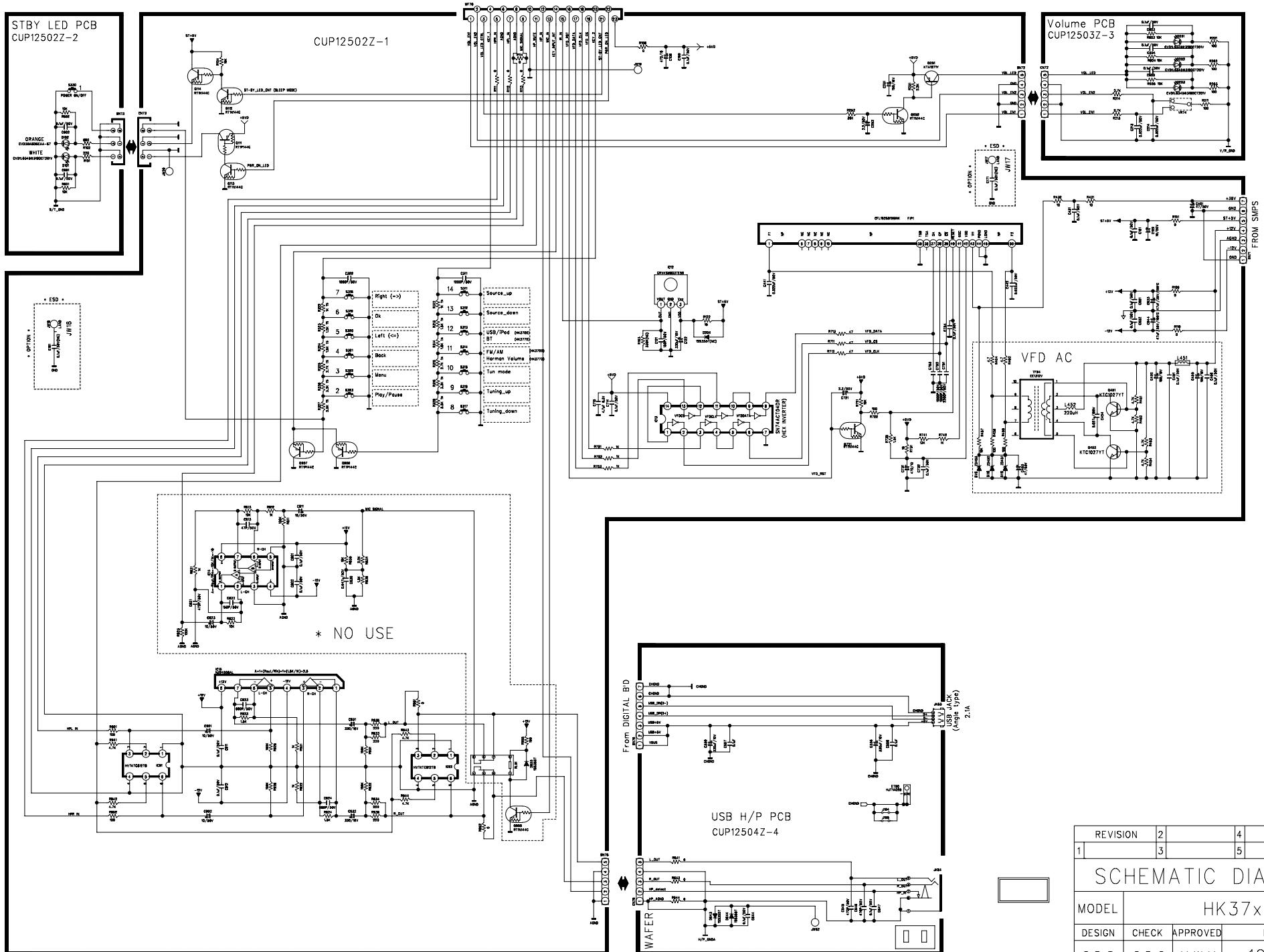
DEL | HK3770, HK3700

SIGN CHECK APPROVE DRAWING NO.

12502W0

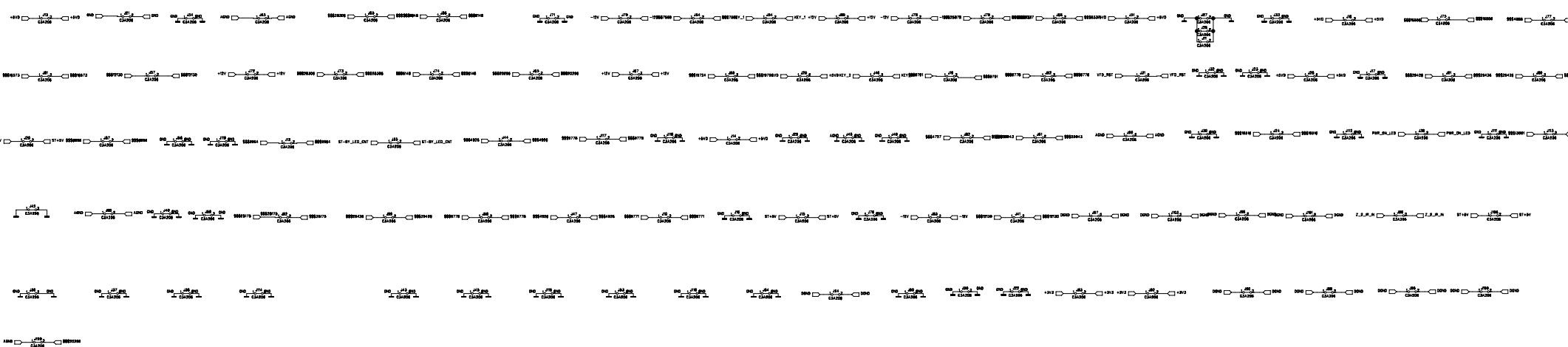
12502WCWZ

Page 108 of 120



| REVISION | 2 | 4 | 6 | |
|----------|----------|----------|----------|-----------------|
| MODEL | HK37x0 | | | |
| DESIGN | C.D.S | CHECK | APPROVED | DRAWING NO |
| C.D.C | Y.W.Y | | | 12502SCMZ |
| 13.08.30 | 00.00.00 | 00.00.00 | | Page 109 of 120 |

■



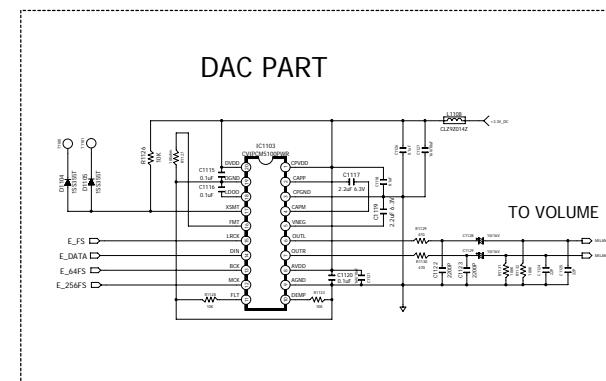
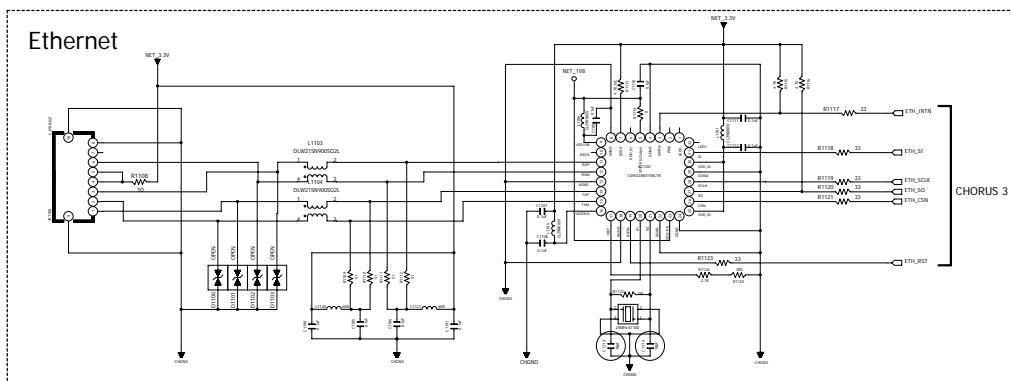
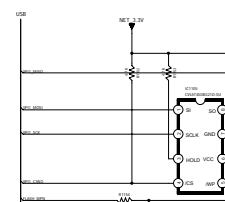
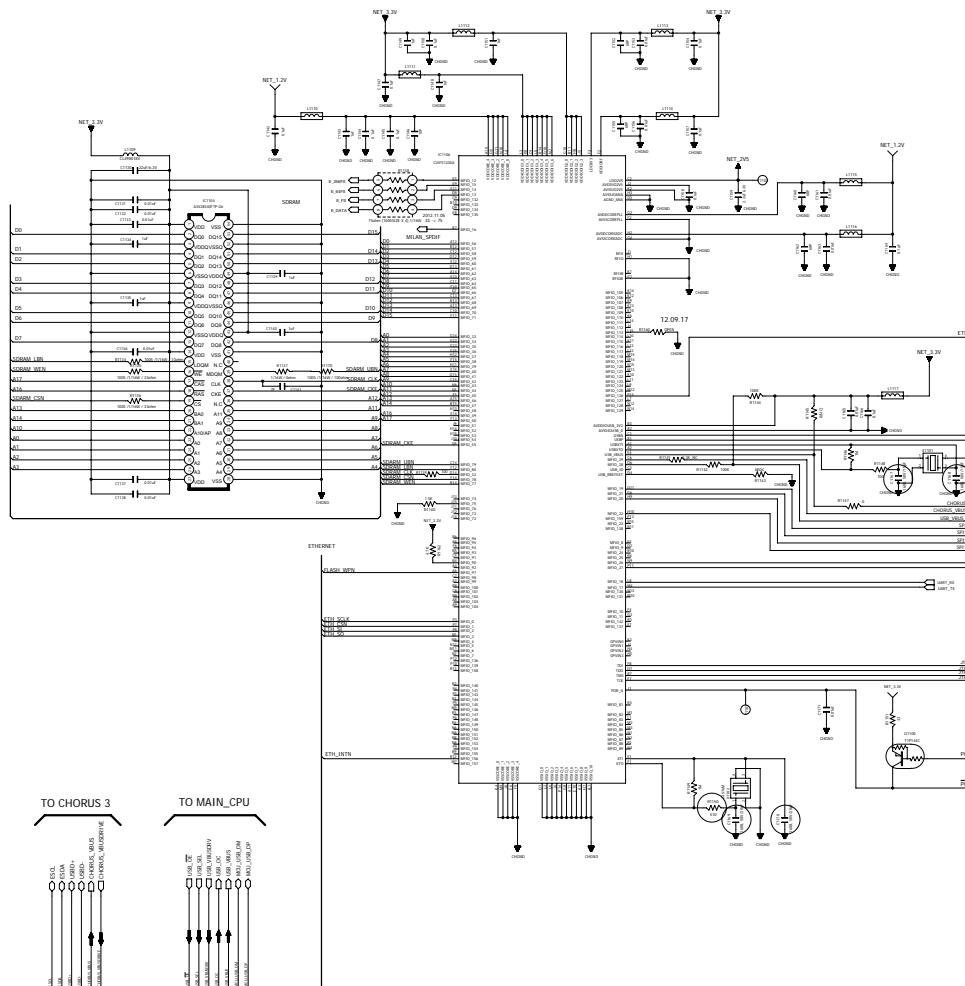
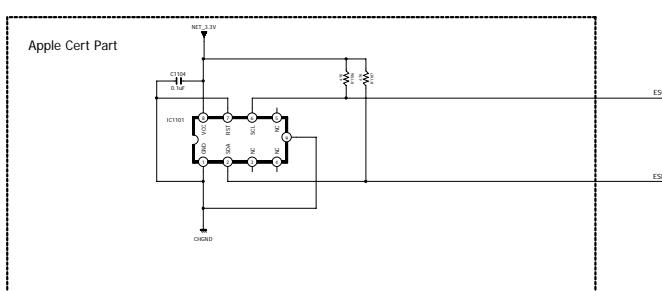
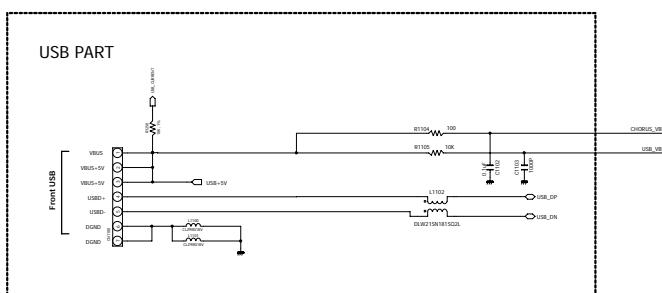
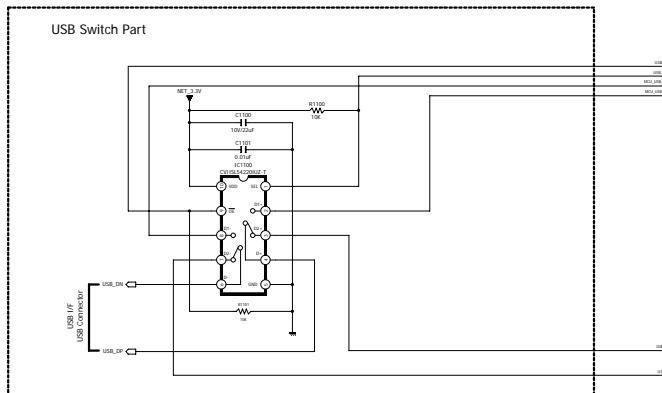
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B

A



| | | | | | | | |
|-------------------|--------|---------|-----------------|---|--|-------|----|
| REVISION | | 2 | | 4 | | 6 | |
| 1 | | 3 | | 5 | | 7 | |
| SCHEMATIC DIAGRAM | | | | | | SHEET | |
| MODEL | HK37x0 | | | | | 0 | 27 |
| DESIGN | CHECK | APPROVE | DRAWING NO | | | | |
| C.D.S | C.D.C | Y.W.Y | 12502SCMZ | | | | |
| 12.12.24 | 0.0.0 | 0.0.0 | (Page 1) of 126 | | | | |



SCHEMATIC DIAGRAM

| | | | |
|---------------------|-------|---------|------------|
| REVISION | 2 | 4 | 6 |
| 1 | 3 | 5 | 7 |
| HK3700 /3770 | | | |
| MODEL | C.D.W | S.K.S | K.J.K |
| DESIGN | CHECK | APPROVE | DRAWING NO |
| 2013.11.27 | | | |

MP

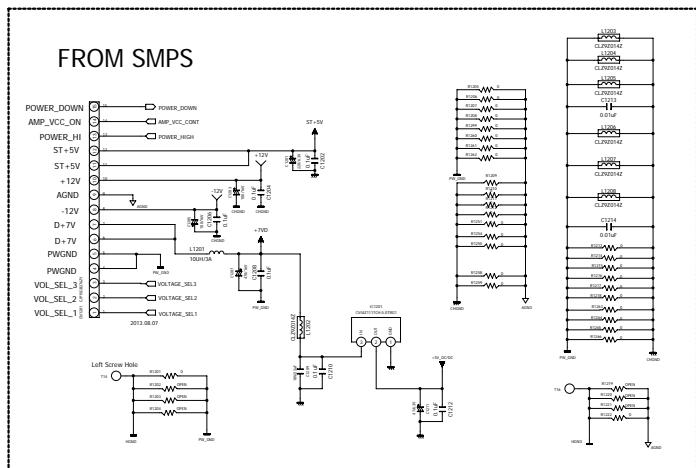
ISSUE
ANAM
MULTI LAB
2013.11.27

SCHEMATIC DIAGRAM

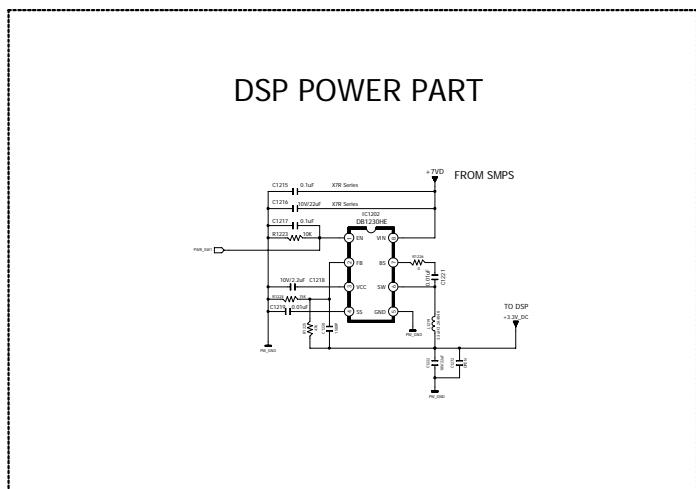
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10

27

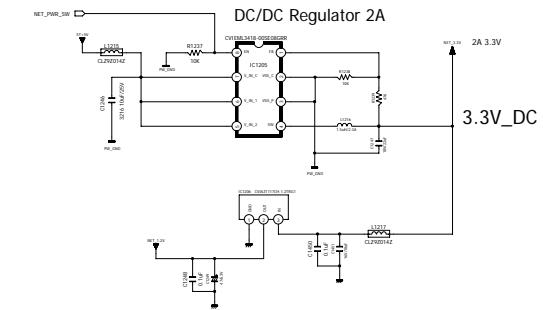


DSP POWER PART

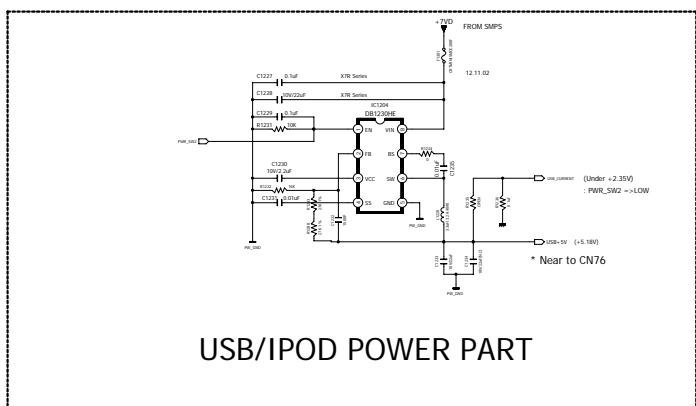


NETWORK Power Control

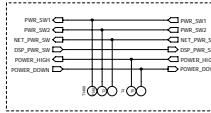
DC/DC (Milan +3.3V)



USB/IPOD POWER PART

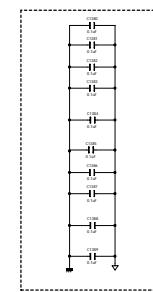
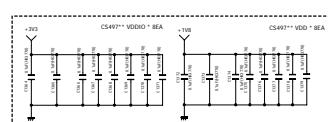
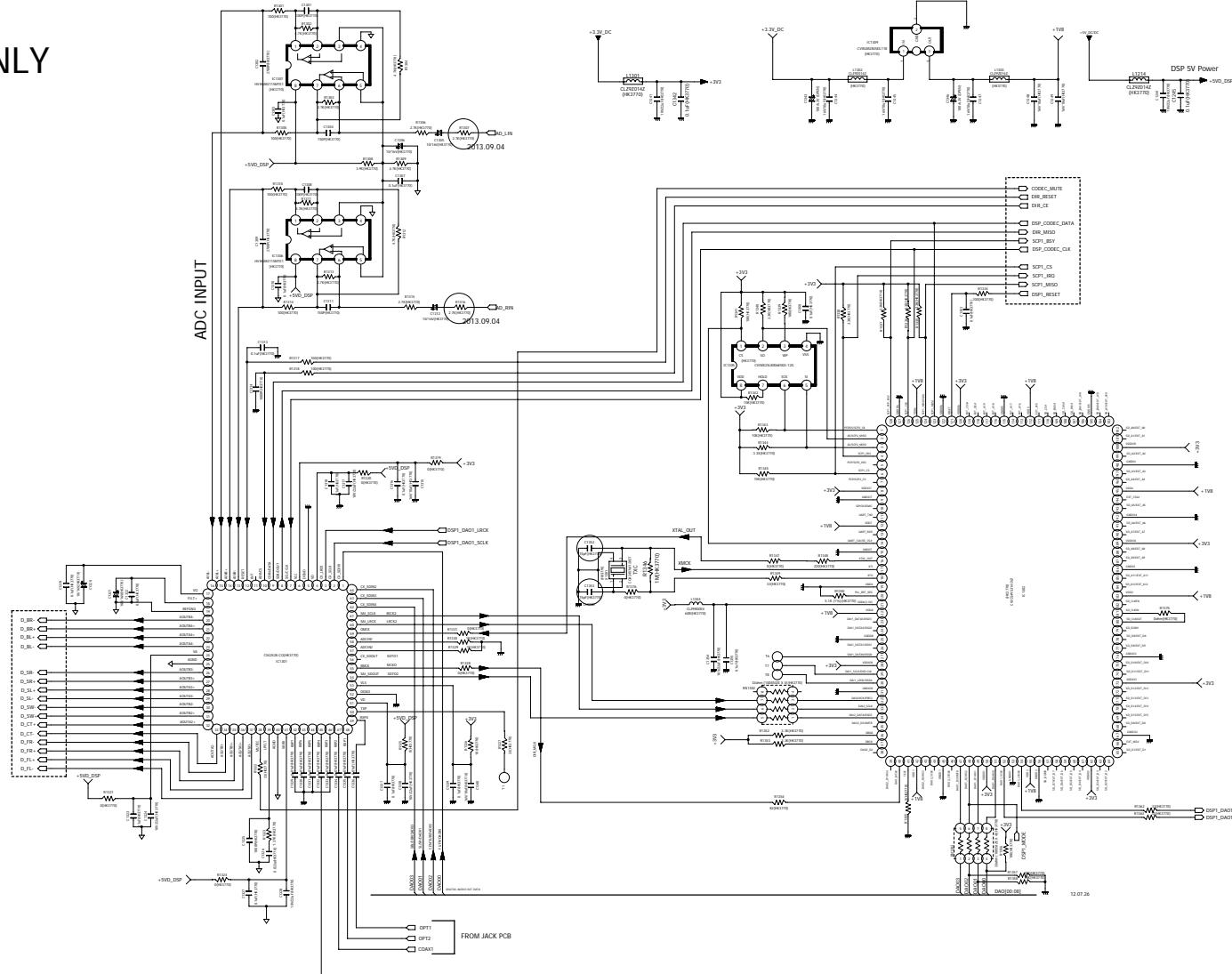


POWER TO MCU



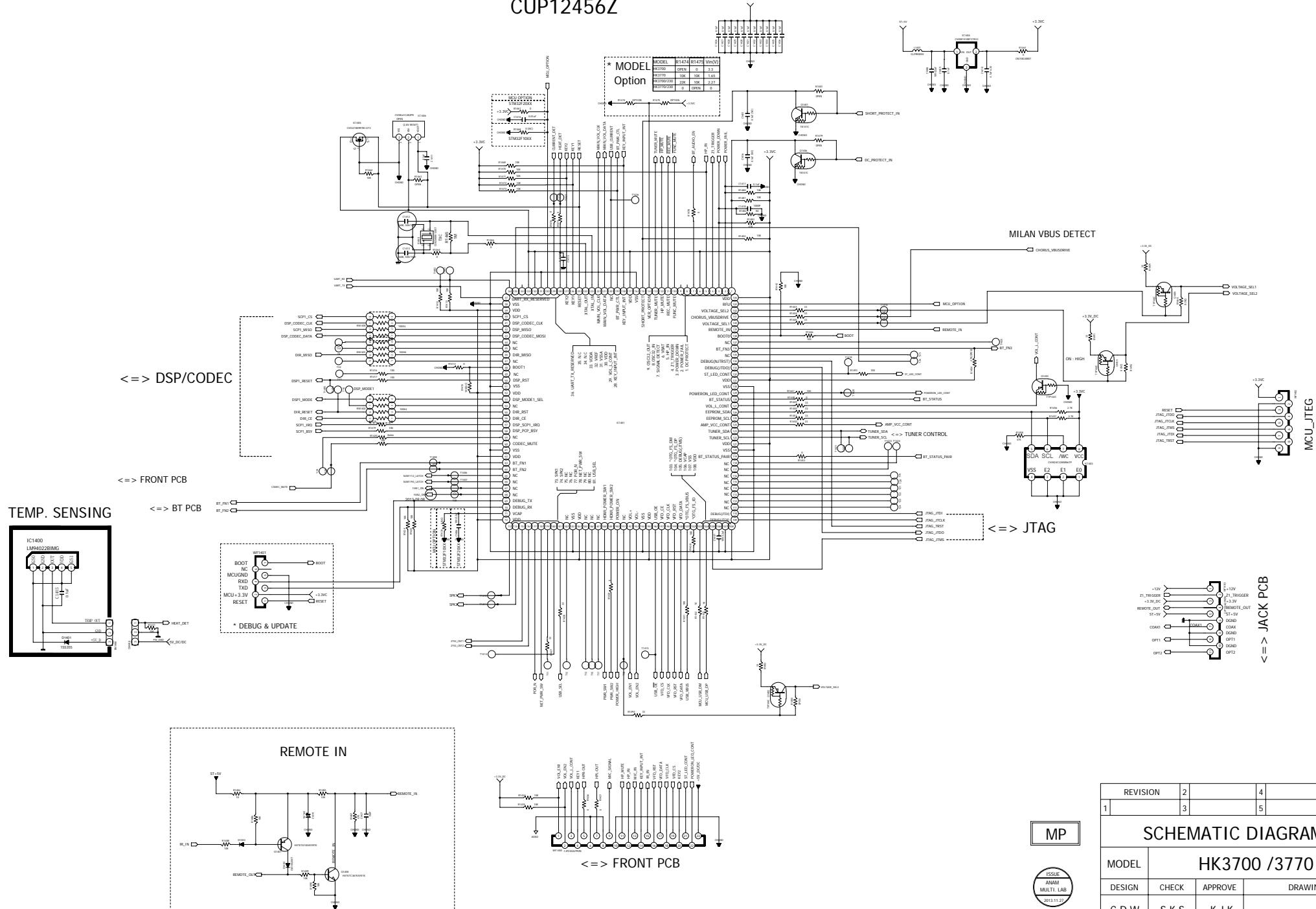
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|--------------------------|--------------|------------|----------------------|---|---|-------|
| REVISION | | 2 | | 4 | | 6 |
| 1 | | 3 | | 5 | | 7 |
| SCHEMATIC DIAGRAM | | | | | | SHEET |
| MODEL | HK3700 /3770 | | | | 5 | 27 |
| DESIGN | CHECK | APPROVE | DRAWING NO | | | |
| C.D.W | S.K.S | K.J.K | | | | |
| 2013.11.27 | 2013.11.27 | 2013.11.27 | (DC) Page 112 of 120 | | | |

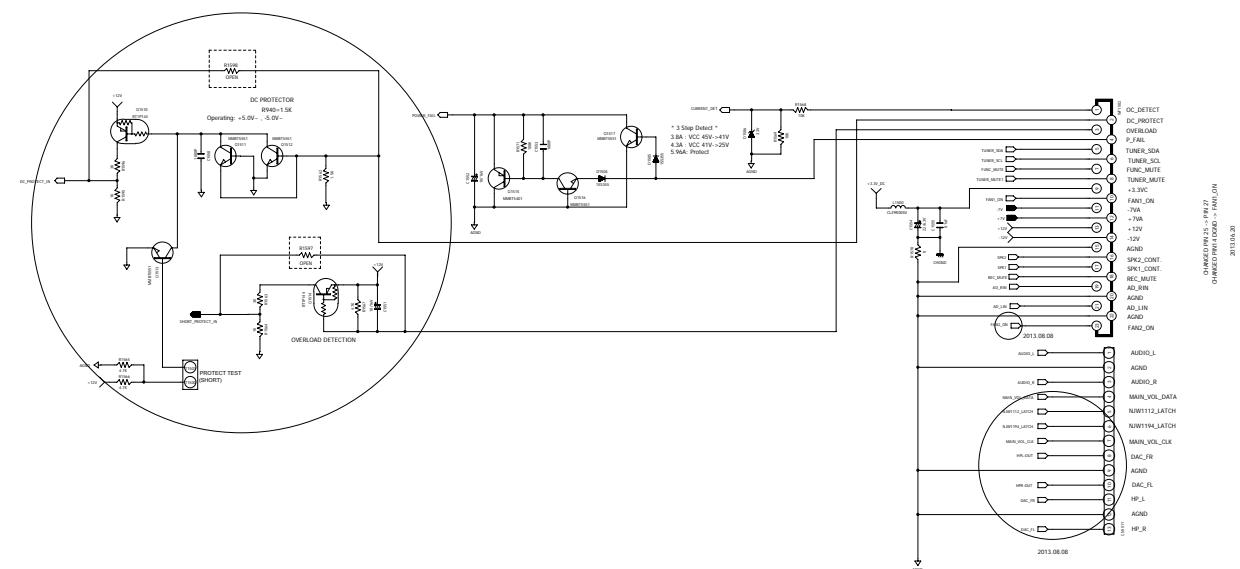
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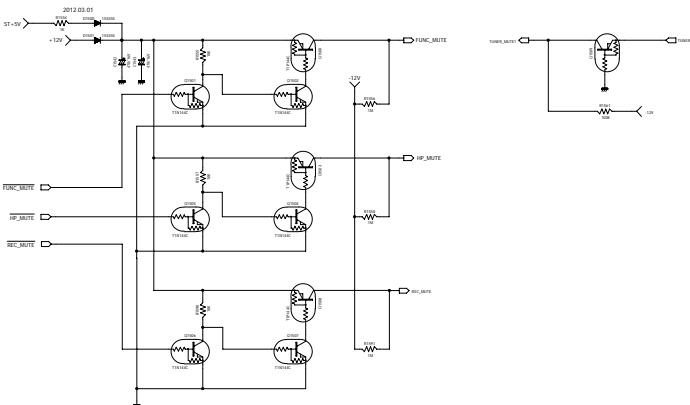
| REVISION | 2 | 4 | 6 | | |
|------------|--------------|------------|------------|------------|------------|
| MODEL | HK3700 /3770 | | | | |
| DESIGN | C.D.W | CHECK | S.K.S | APPROVE | K.J.K |
| 2013.11.27 | 2013.11.27 | 2013.11.27 | 2013.11.27 | 2013.11.27 | 2013.11.27 |

CUP12456Z

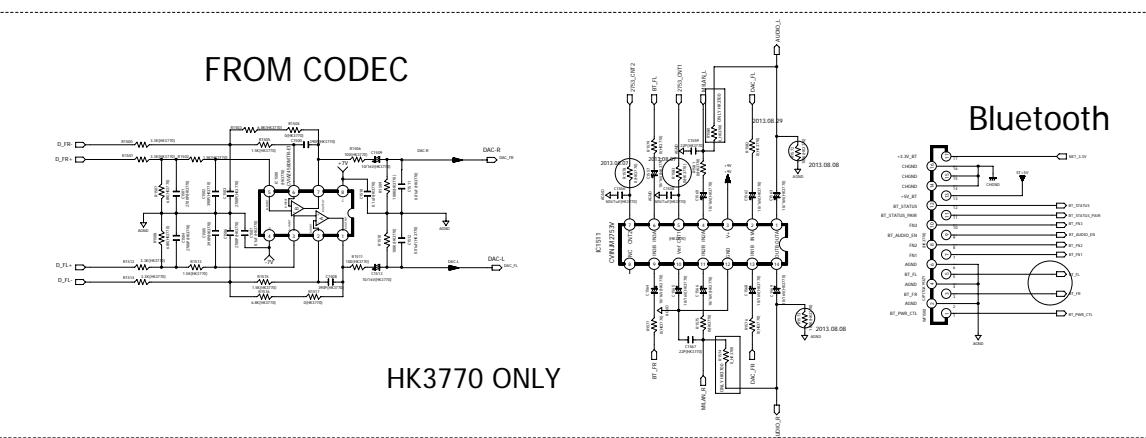




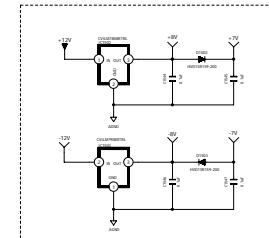
MUTE CONTROL



FROM CODEC



HK3770 ONLY



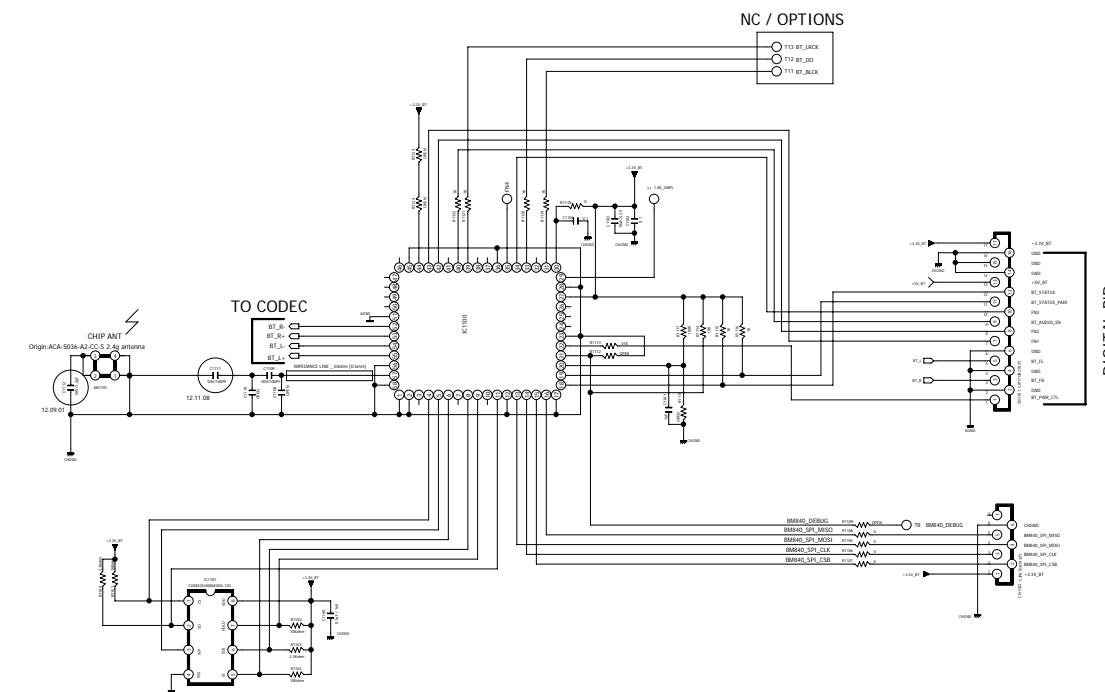
HK3770 ONLY

MP

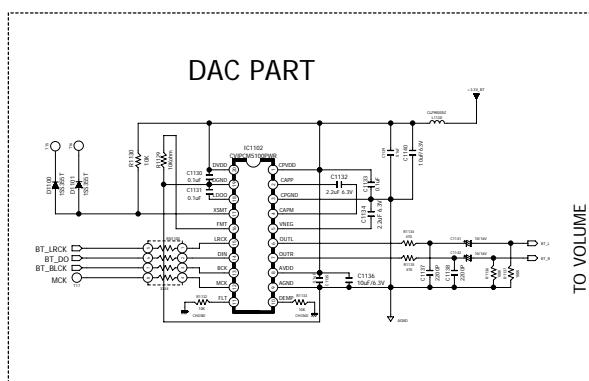
ISSUE
ANAM
MULTI. LAB

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|--------------------------|--------------|------------|----------------------|---|--|----|-------|
| REVISION | | 2 | | 4 | | 6 | |
| 1 | | 3 | | 5 | | 7 | |
| SCHEMATIC DIAGRAM | | | | | | | SHEET |
| MODEL | HK3700 /3770 | | | | | 14 | 27 |
| DESIGN | CHECK | APPROVE | DRAWING NO | | | | |
| C.D.W | S.K.S | K.J.K | | | | | |
| 2013.11.27 | 2013.11.27 | 2013.11.27 | (VOLUME 115 POF 120) | | | | |

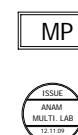
Bluetooth BM840



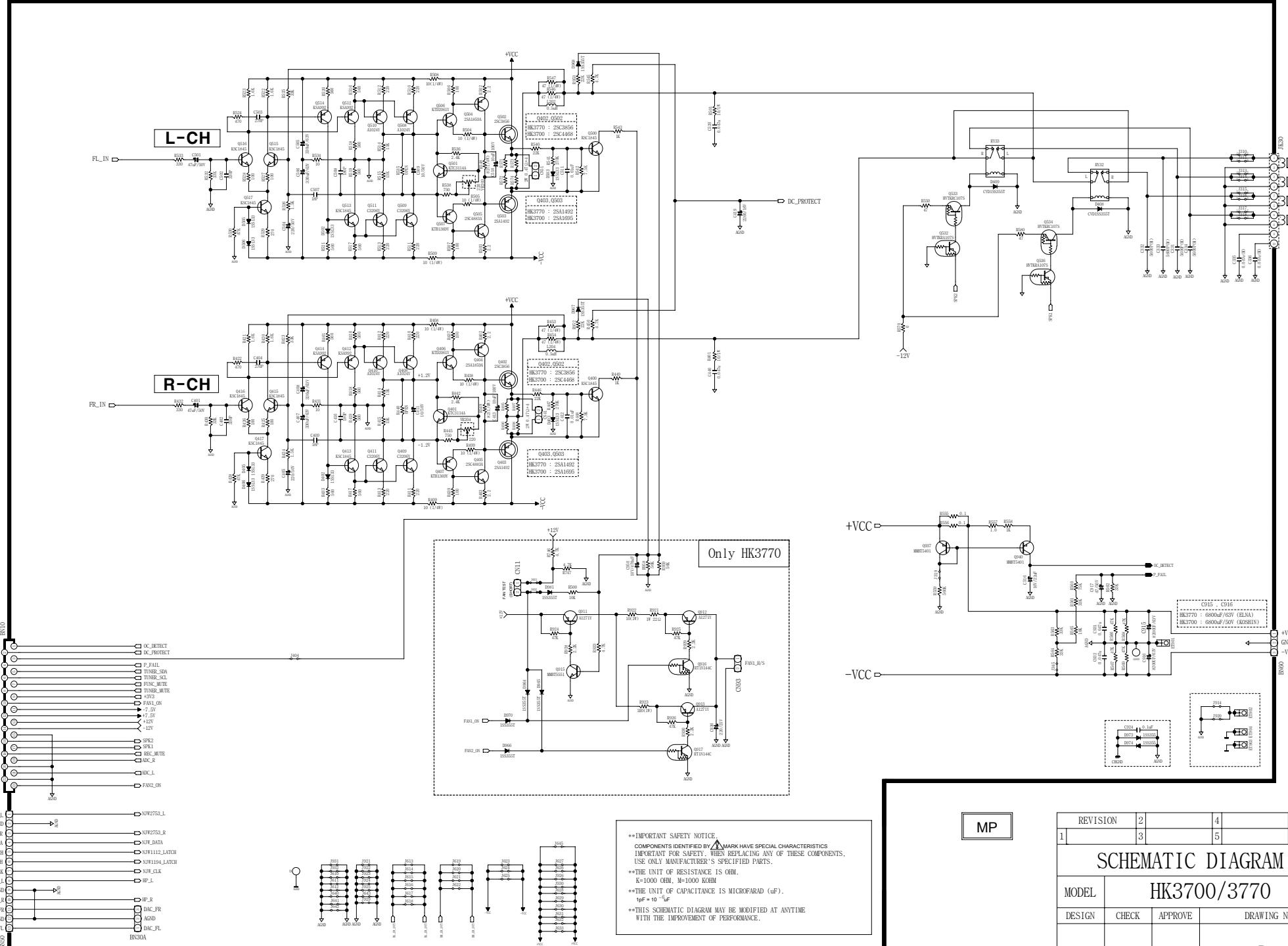
DAC PART



VOLUME



| | | | | | |
|--------------------------|-----------|---------|-----------------|---|-------|
| REVISION | | 2 | 4 | 6 | |
| 1 | | 3 | 5 | 7 | |
| SCHEMATIC DIAGRAM | | | | | SHEET |
| MODEL | HK37x0_BT | | | | 27 |
| DESIGN | CHECK | APPROVE | DRAWING NO | | |
| C.D.W | S.K.S | C.D.C | Bluetooth | | |
| 12.11.09 | | | Page 116 of 120 | | |



MP

| REVISION | 2 | 4 | 6 |
|----------|-------------|---------|------------|
| MODEL | HK3700/3770 | SHEET | A |
| DESIGN | CHECK | APPROVE | DRAWING NO |
| 1 | 3 | 5 | 7 |
| 22 | 27 | | |

SCHEMATIC DIAGRAM

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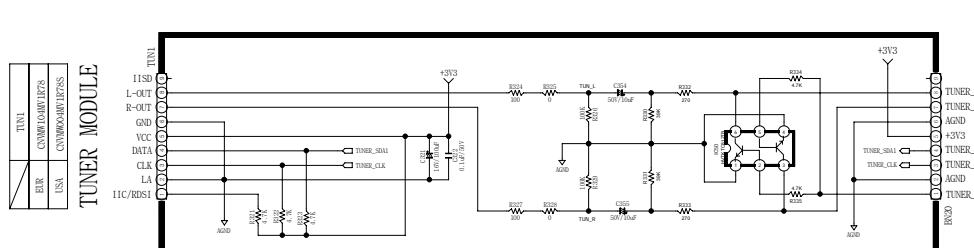
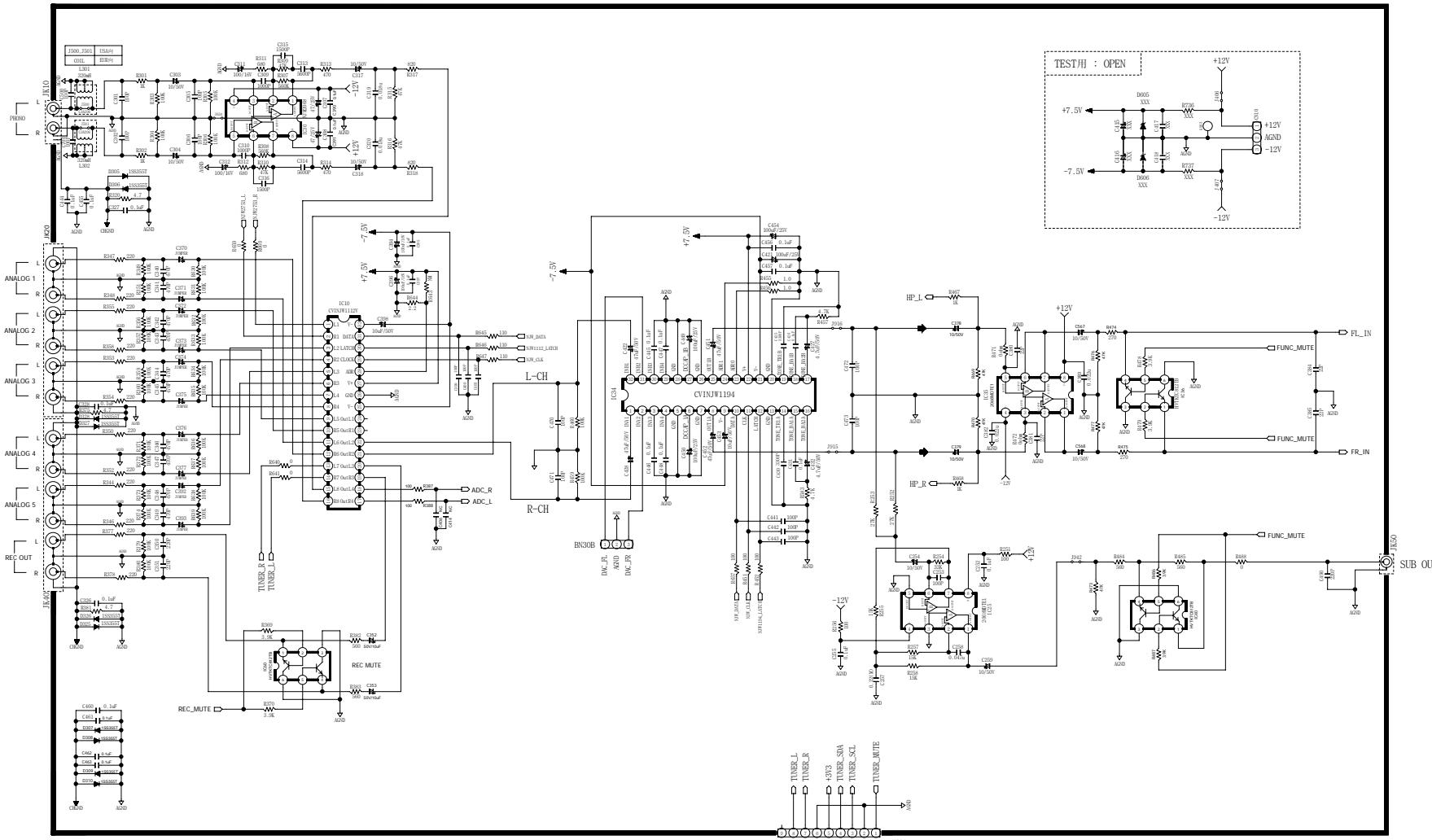
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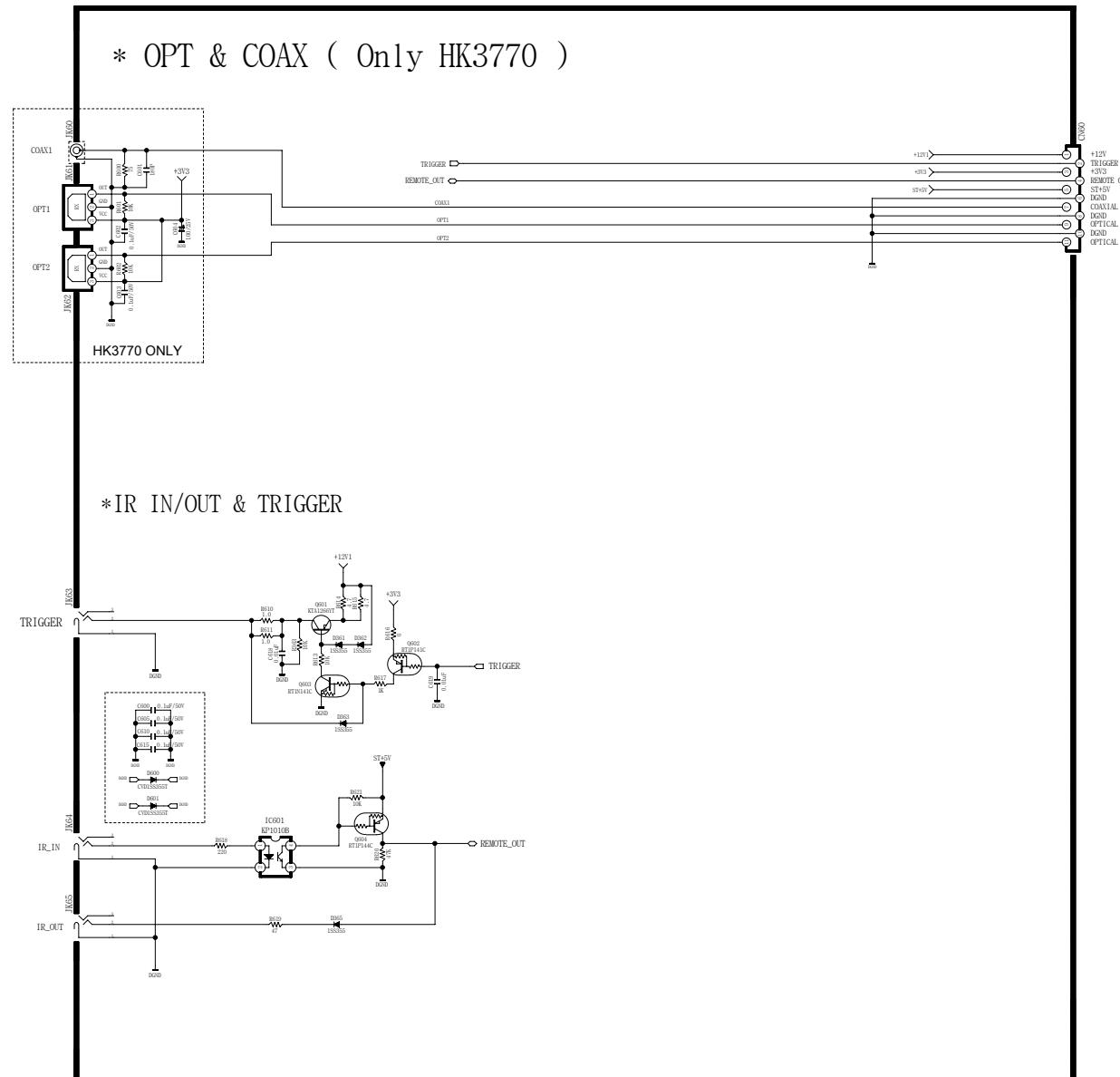
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2013.08.16



| REVISION | | 2 | 4 | 6 |
|-------------------|-------|-------------|------------|---|
| 1 | 3 | 5 | 7 | |
| SCHEMATIC DIAGRAM | | | | |
| MODEL | | HK3700/3770 | | |
| DESIGN | CHECK | APPROVE | DRAWING NO | |
| | | | | |

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MULTI. LAB
2013.12.03



| REVISION | 2 | 4 | 6 |
|----------|-------------|---------|------------|
| MODEL | HK3700/3770 | 2 | 27 |
| DESIGN | CHECK | APPROVE | DRAWING NO |



SCHEMATIC DIAGRAM

SHEET

ANAM
MULTI. LAB

27