

Service Manual

Model: ALTO MONITTOR

PA/MONITOR PROCESSOR



www.altoproaudio.com

Version: 1.1

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1.Specification

Specifications

Frequency Response:10Hz – 30KHz, ± 0.5 dB.

THD + Noise Ratio:106dB,1KHz

Input Impedance: 50k ohm balanced,25k ohm unbalanced

Maximum Input Level:+19dBm

Output Impedance: 60 ohm balanced,30 ohm unbalanced

Maximum Output Level:+21dBm

Graphic EQ Band Separation:2/3 Octave.

Power Supply:

Power consumption 8W

Fuse 95~120V ,T315mA

210~240V, T200mA

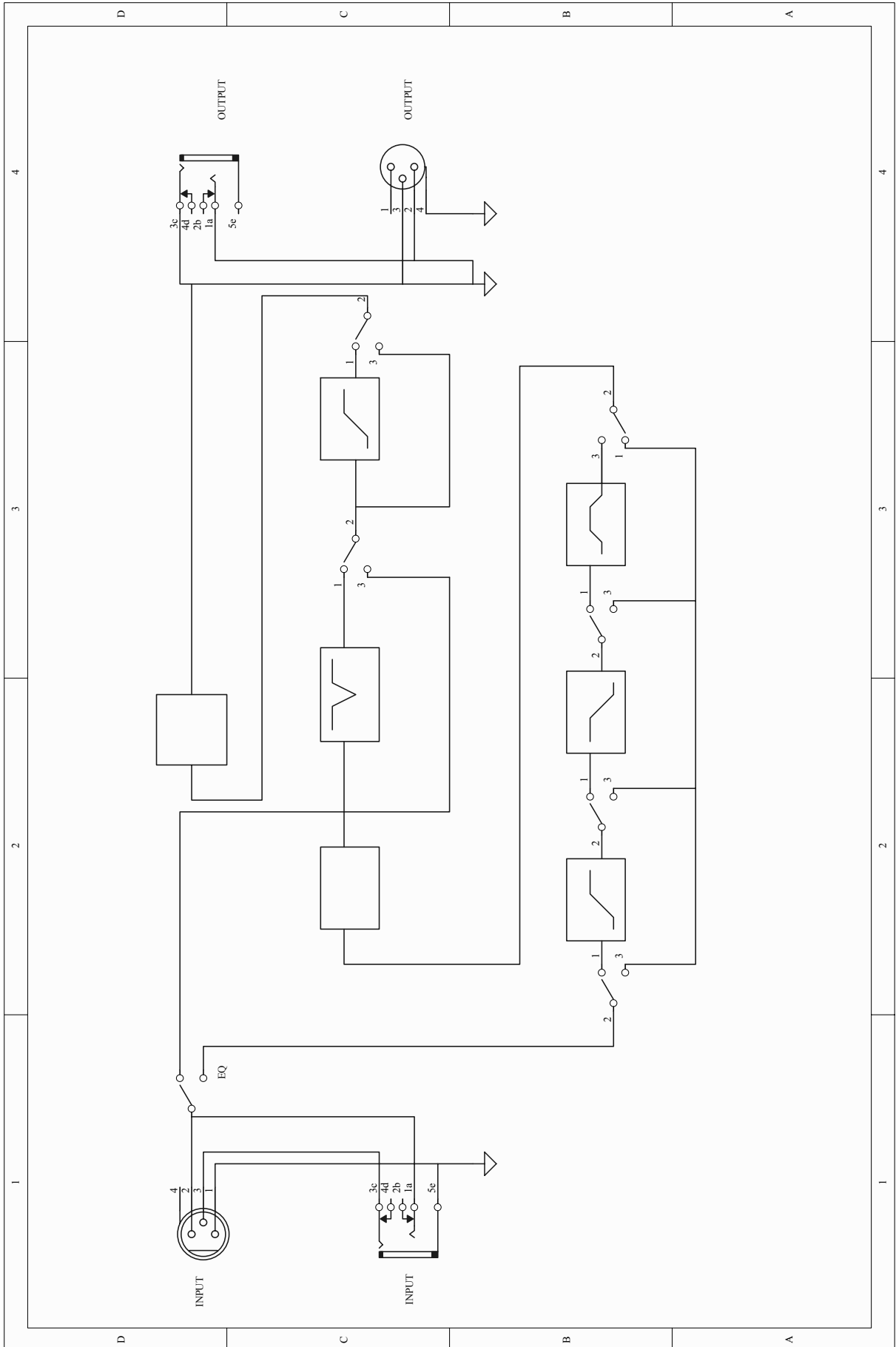
Dimensions

483(W)*194.5(D)*44(H) mm(19*7.7*1.7)

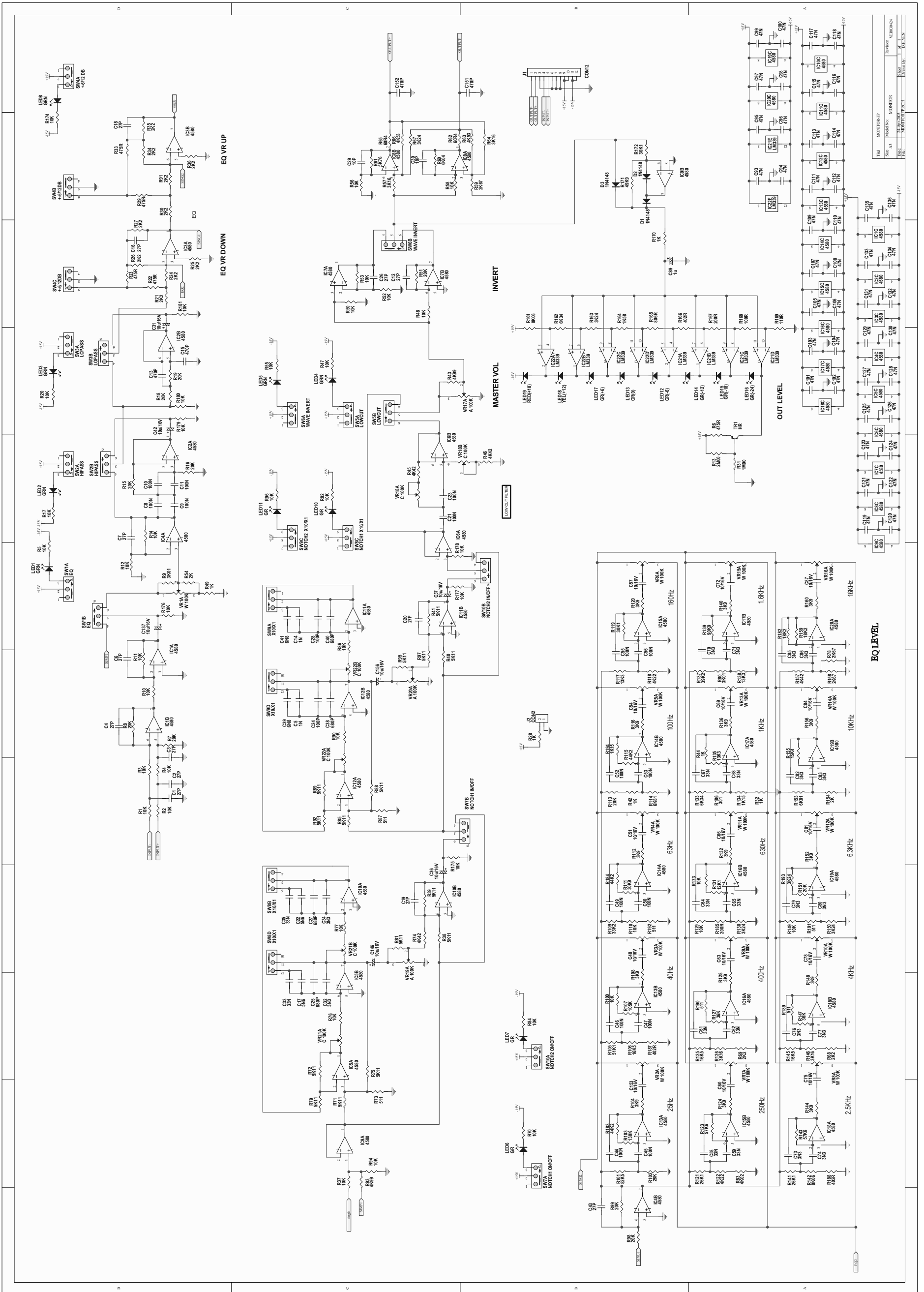
Weight

2.8kg

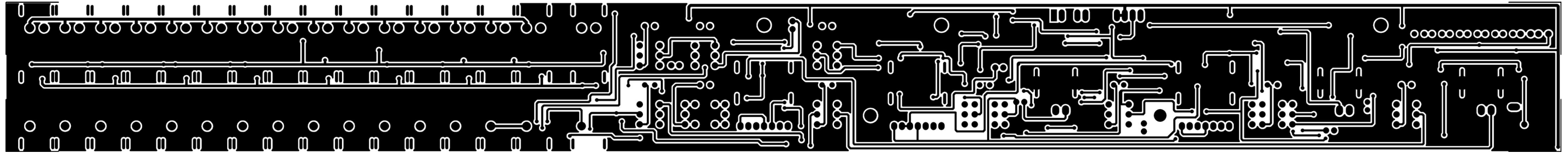
2. Block Diagram



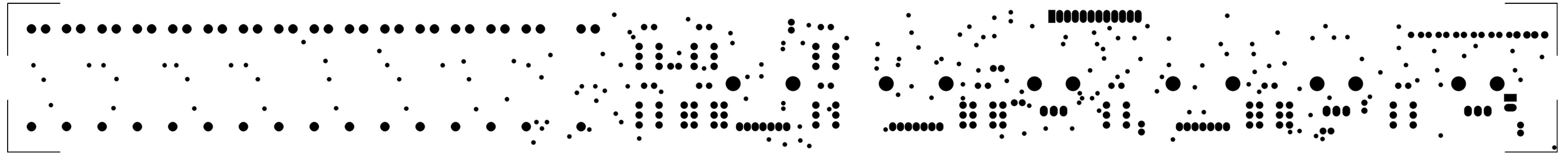
3.Schematic Diagram



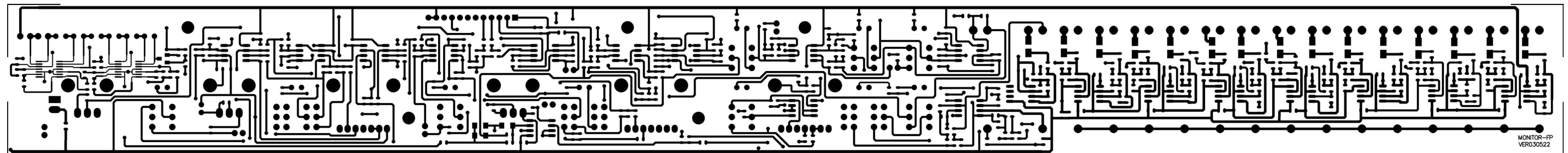
4. Printed Circuit Board



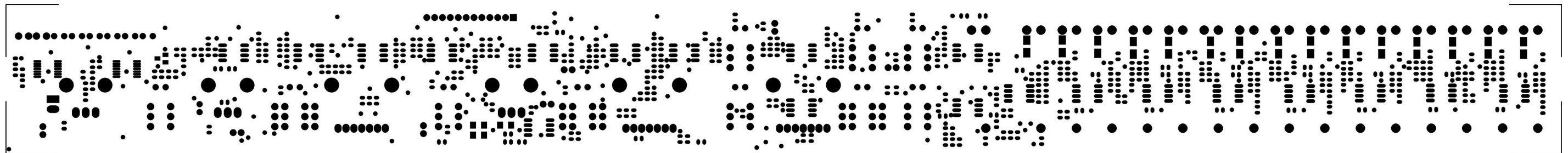
PCB : MONITOR-FP Top Layer



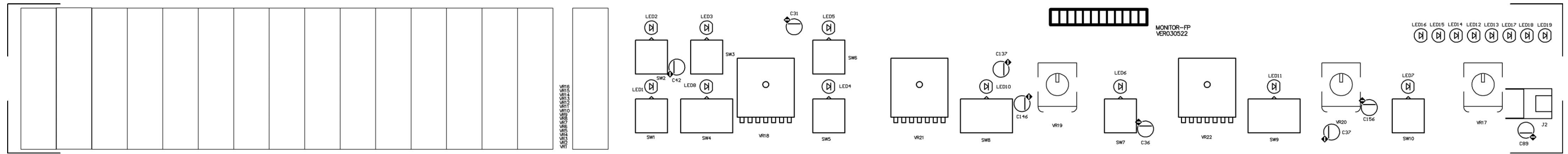
PCB : MONITOR-FP Top Solder Mask



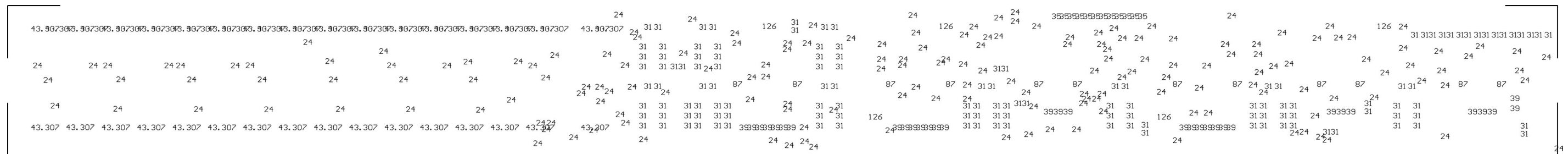
PCB : MONITOR-FP Bottom Layer



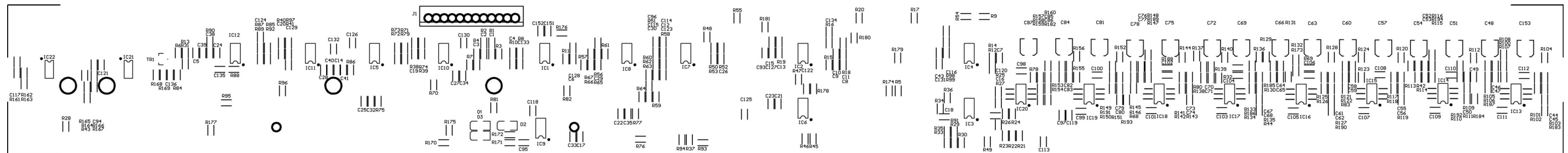
PCB : MONITOR-FP Bottom Solder Mask



PCB : MONITOR-FP Top Overlay

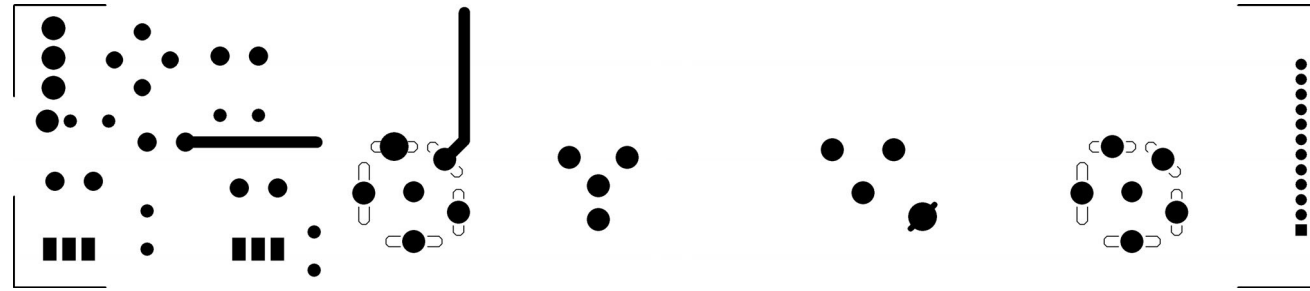


PCB : MONITOR-FP Drill Drawing Plots

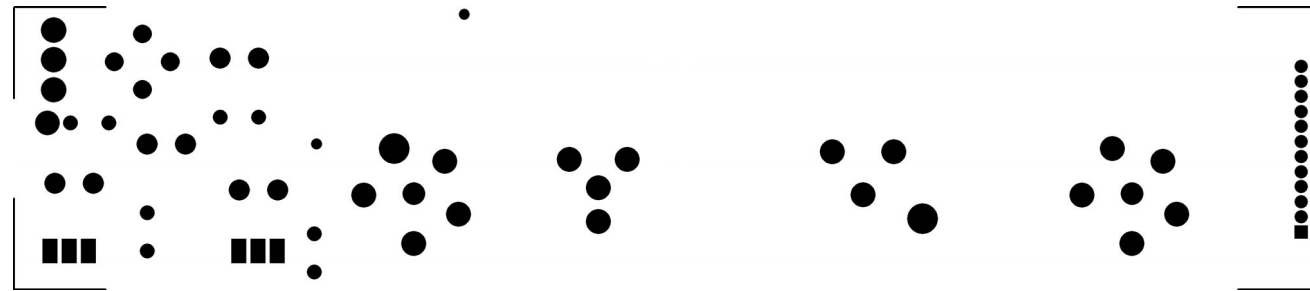


PCB : MONITOR-FP Bottom Overlay

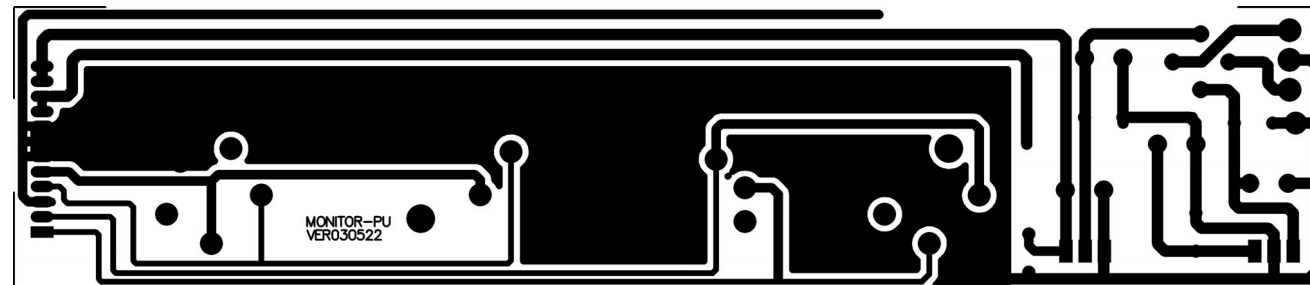
Tool	Hole Size	Hole Count Plated	Tool Travel
T1	24mil (0.6096mm)	178	78.42 Inch (1991.75 mm)
T2	31mil (0.7874mm)	130	52.74 Inch (1339.66 mm)
T3	35mil (0.889mm)	12	22.58 Inch (573.47 mm)
T4	39mil (0.9906mm)	32	33.08 Inch (840.33 mm)
T5	43mil (1.0922mm)	48	35.67 Inch (906.13 mm)
T6	87mil (2.2098mm)	12	32.83 Inch (833.95 mm)
T7	126mil (3.2004mm)	5	NPTH 32.61 Inch (828.26 mm)
Totals		417	287.93 Inch (7313.55 mm)



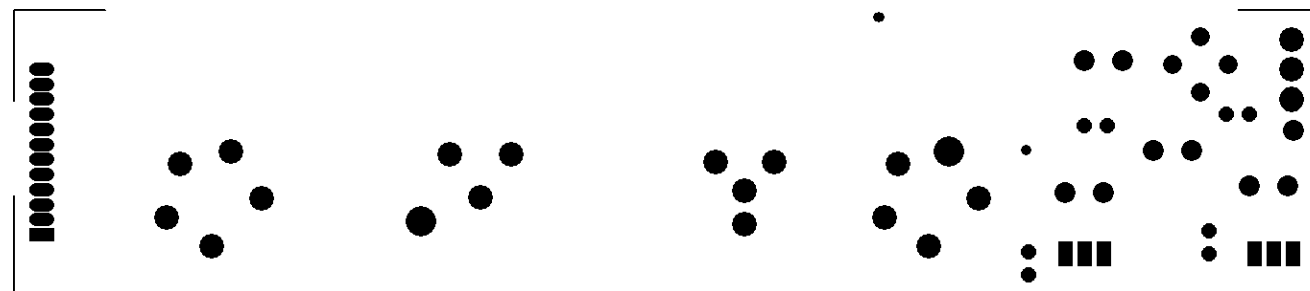
PCB : MONITOR-PU Top Layer



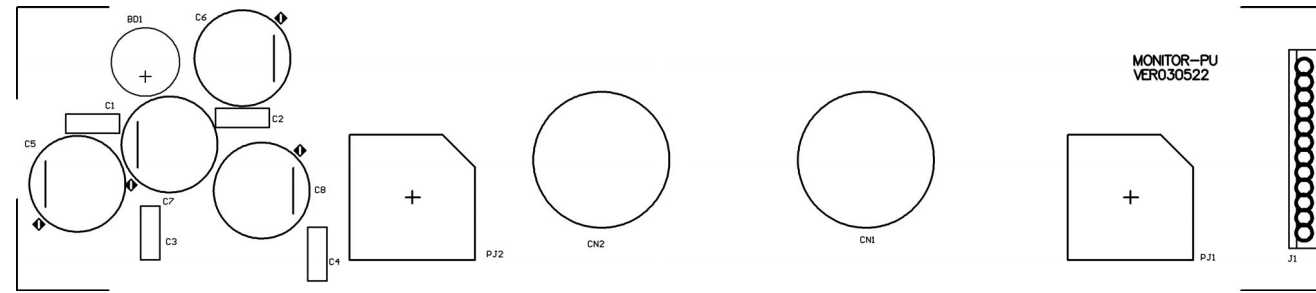
PCB : MONITOR-PU Top Solder Mask



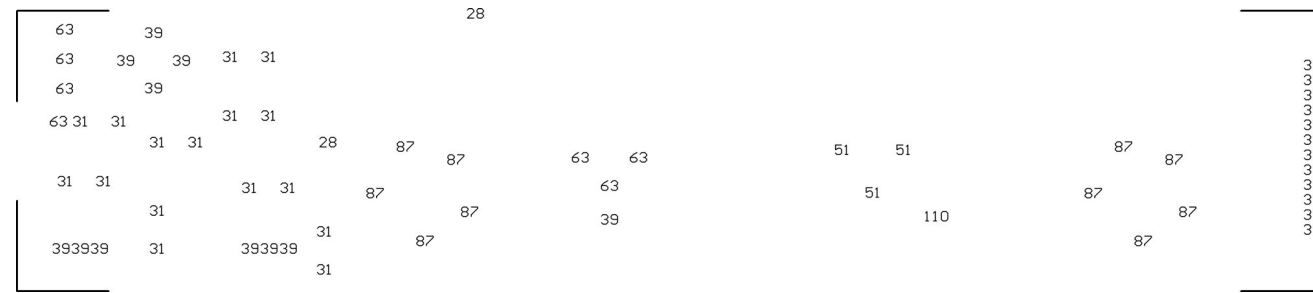
PCB : MONITOR-PU Bottom Layer



PCB : MONITOR-PU Bottom Solder Mask



PCB : MONITOR-PU Top Overlay



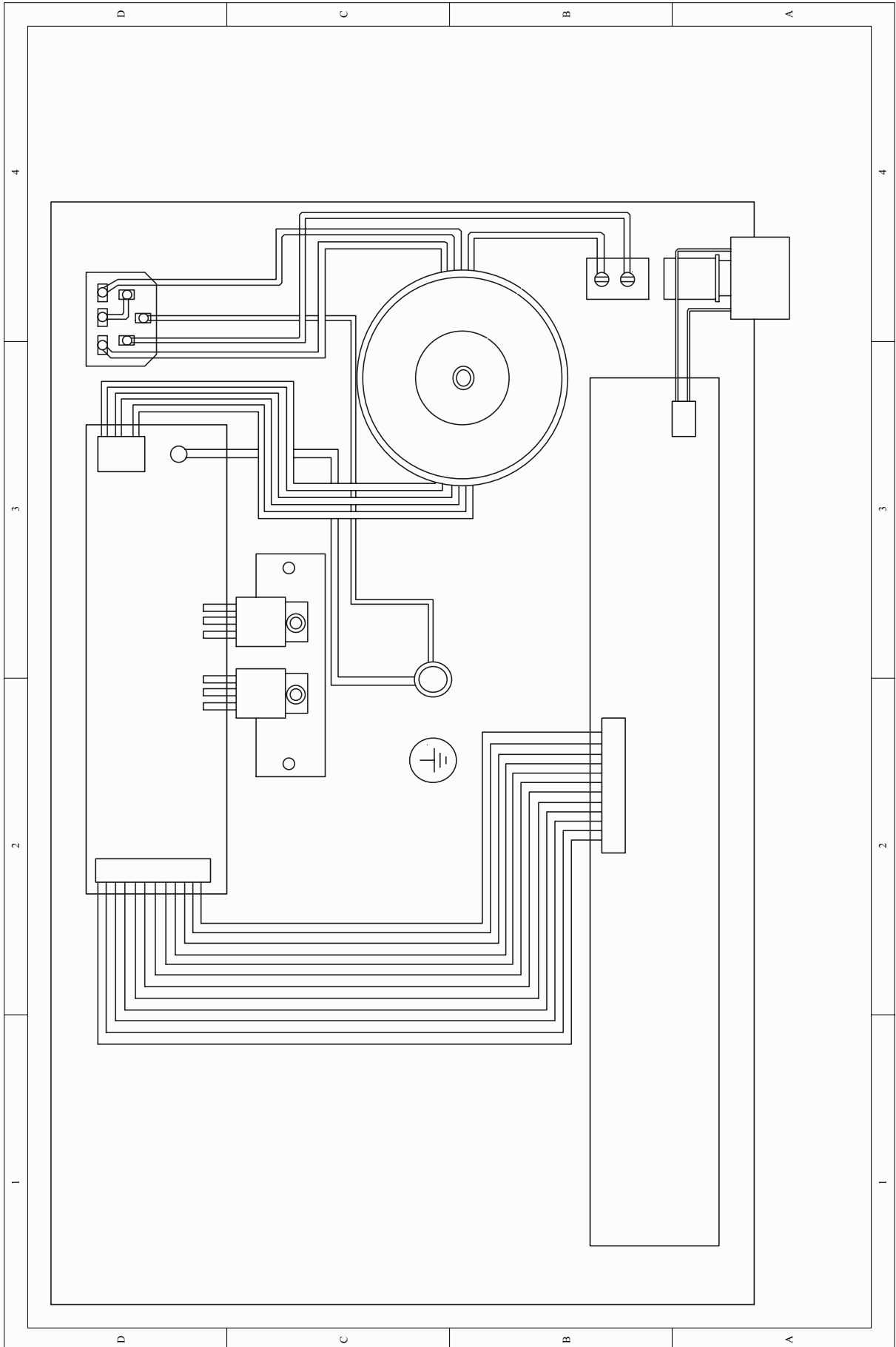
PCB : MONITOR-PU Drill Drawing Plots



PCB : MONITOR-PU Bottom Overlay

Tool	Hole Size	Hole Count Plated	Tool Travel
T1	28mil (0.7112mm)	2	13.15 Inch (333.98 mm)
T2	31mil (0.7874mm)	16	16.44 Inch (417.65 mm)
T3	35mil (0.889mm)	12	16.40 Inch (416.66 mm)
T4	39mil (0.9906mm)	11	17.48 Inch (444.08 mm)
T5	51mil (1.2954mm)	3	14.48 Inch (367.70 mm)
T6	63mil (1.6002mm)	7	19.36 Inch (491.80 mm)
T7	87mil (2.2098mm)	10	24.08 Inch (611.62 mm)
T8	110mil (2.794mm)	1	14.03 Inch (356.38 mm)
Totals		62	135.43 Inch (3439.86 mm)

5.Wiring Diagram



7.Electrical Parts List

SEKAKU ELECTRON INDUSTRY CO.,LTD

IEBO_P02

IEBO_P02

Multi-Level BOM Structure Listing

Report No.: IEBO_P02
Prepared by 030002[陳建勳]

Date 2003/08/11
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Item No. PF00882 Version
DESCRIPTION: ALTO MONITOR
ALTO MONITOR ALTO 230V Europe

UNIT: PCS
Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition Rate	Rate
-0001-----	MB02277			PCS	1.0000	2003/05/23
	bottom board				1	N
	ALTO MONITOR				0.00	%
-0001-----	MB02275			PCS	1.0000	2003/01/20
	bottom board				1	N
	ALTO MONITOR				0.00	%
-0001-----	MB02274			PCS	1.0000	2002/05/17
	bottom board				1	N
	ALTO MONITOR				0.00	%
-0001-----	MJ00058			PCS	1.0000	2002/05/17
	iron board				20	Y
	1*2135*1220 20.45kg			KG	0.00	%
-0002-----	ME00004			PCS	2.0000	2003/01/18
	screw				1	N
	M3*10*0.5PH				0.00	%
-0003-----	ME00001			PCS	1.0000	2003/01/18
	screw				1	N
	M4*10*0.7PH				0.00	%
-0004-----	MI01357			PCS	1.0000	2003/06/20
	fixed board				1	Y
	CLE2.0				0.00	%
-0001-----	MJ00063			PCS	1.0000	2002/04/14
	Zn-plated board				2542	N
	1.2*2135*1220 24.54kg			KG	0.00	%
-0002-----	MC00385			PCS	1.0000	2003/05/23
	top cover				1	N
	HPA6				0.00	%
-0001-----	MC00383			PCS	1.0000	2003/01/17
	top cover				1	N
	HPA6				0.00	%
-0001-----	MC00384			PCS	1.0000	2002/03/06
	top cover				1	N
	HPA6				0.00	%
-0001-----	MJ00058			PCS	1.0000	2002/03/06
	iron board				24	N
	1*2135*1220 20.45kg			KG	0.00	%
-0003-----	MA03340			PCS	1.0000	2003/05/23
	panel				1	N
	ALTO MONITOR				0.00	%
-0001-----	MA03338			PCS	1.0000	2002/05/17
	panel				1	N
	ALTO MONITOR				0.00	%
-0001-----	MA03337			PCS	1.0000	2002/05/17
	panel				1	N
	ALTO MONITOR				0.00	%
-0001-----	MI01276			PCS	1.0000	2002/05/17
	panel				1	N
	2*44*12*483				0.00	%
-0004-----	MI00885			PCS	1.0000	2003/05/23
	front board				1	N
	ALTO MONITOR				0.00	%
-0001-----	MJ00061			PCS	1.0000	2003/02/25
	Zn-plated board				250	N
	1*2135*1220 20.45kg			KG	0.00	%
-0002-----	ME00035			PCS	5.0000	2003/02/25
	iron pillar				1	N
	hexagon6.35*M3*6				0.00	%
-0005-----	MI00129			PCS	1.0000	2003/05/23
	front board				1	N
	EQU215				0.00	%
-0001-----	MJ00063			PCS	1.0000	2003/02/24
	Zn-plated board				119	N
	1.2*2135*1220 24.54kg			KG	0.00	%
-0006-----	NB02073			PCS	1.0000	2003/05/23
	box				1	N
	ALTO MONITOR ALTO				0.00	%

Multi-Level BOM Structure Listing

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Item No. PF00882 Version
 DESCRIPTION: ALTO MONITOR
 ALTO MONITOR ALTO 230V Europe

UNIT: PCS
 Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition	Rate
-0007-----	NE06310 label			PCS	4.0000	2003/05/23
	ALTO MONITOR				1	N
					0.00	%
-0001-----	NH00012 bond paper			M	1.0000	2003/02/10
	0.04*1M				80	N
					0.00	%
-0002-----	NI00014 membrane			M	1.0000	2003/02/10
	0.035*1M				80	N
					0.00	%
-0008-----	NF01356 instruction			PCS	1.0000	2003/05/23
	ALTO MONITOR ALTO				1	N
					0.00	%
-0009-----	NI02510 knob			PCS	6.0000	2003/05/23
	φ 14*4mm				1	N
					0.00	%
-0010-----	TD00118 transformer			PCS	1.0000	2003/05/23
	PT-CLE40(include FUSE102)				1	N
					0.00	%
-0011-----	NI00443 rubber coil			PCS	1.0000	2003/05/23
	φ 20* φ 60*2tB				1	N
					0.00	%
-0012-----	MG00041 screw			PCS	7.0000	2003/05/23
	M3*6				1	N
					0.00	%
-0013-----	MG00061 screw			PCS	4.0000	2003/05/23
	M3*10				1	N
					0.00	%
-0014-----	MG00166 screw			PCS	2.0000	2003/05/23
	M3*10				1	N
					0.00	%
-0015-----	NI00863 insulate bean			PCS	2.0000	2003/05/23
	TO220B				1	N
					0.00	%
-0016-----	MG00182 screw			PCS	5.0000	2003/05/23
	M2*2.5				1	N
					0.00	%
-0017-----	MG00042 screw			PCS	2.0000	2003/05/23
	M3*10				1	N
					0.00	%
-0018-----	MG00025 screw			PCS	10.0000	2003/05/23
	M3*6				1	N
					0.00	%
-0019-----	MG00036 screw			PCS	7.0000	2003/05/23
	M3*4				1	N
					0.00	%
-0020-----	MG00043 screw			PCS	4.0000	2003/05/23
	M4*6				1	N
					0.00	%
-0021-----	ME00015 colour nut			PCS	2.0000	2003/05/23
	3m/m				1	N
					0.00	%
-0022-----	MF00037 washer			PCS	2.0000	2003/05/23
	φ 3* φ 5*1t				1	N
					0.00	%
-0023-----	NC00005 silicone insulator			PCS	2.0000	2003/05/23
	TO-220 square type				1	N
					0.00	%
-0024-----	MJ00123 heat-sink(white)			PCS	1.0000	2003/05/23
	65*18*4 SCX-P234				1	N
					0.00	%
-0001-----	MJ00120 heat-sink			PCS	1.0000	2002/12/23
	65*18*4 SCX-P234				1	N
					0.00	%
-0001-----	MJ00070 AL board			PCS	1.0000	2002/04/16
	4*2440*1220 32.40kg			KG	1400	N
					0.00	%

Multi-Level BOM Structure Listing

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Item No. PF00882 Version
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 ALTO MONITOR ALTO 230V Europe

UNIT: PCS
 Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition	Rate
-0025-----	NI00308 key φ15*17			PCS	1.0000 1 0.00 %	2003/05/23 N
-0026-----	NI01159 switch cap φ6*2.5 YELLOW C			PCS	1.0000 1 0.00 %	2003/05/23 N
-0027-----	HI00023 alimentation SW SDDL B 1007U			PCS	1.0000 1 0.00 %	2003/05/23 N
-0028-----	SA00065 L.E.D LG2043 green			PCS	1.0000 1 0.00 %	2003/05/23 N
-0029-----	HA01388 row-wire connector wiring 2P 100			PCS	1.0000 1 0.00 %	2003/05/23 N
-0030-----	NI02097 power switch φ18.5*10 blue			PCS	1.0000 1 0.00 %	2003/05/23 N
-0031-----	@NI00240 sleeve φ2.5*10mm			PCS	2.0000 1 0.00 %	2003/05/23 N
-0001-----	NI00239 sleeve φ2.5*1000mm			M	10.0000 1000 0.00 %	2002/06/04 N
-0032-----	@NI00252 sleeve φ4*20mm			PCS	7.0000 1 0.00 %	2003/05/23 N
-0001-----	NI00248 sleeve φ4*1000mm			M	20.0000 1000 0.00 %	2002/06/04 N
-0033-----	NI00362 knob (COOL GRAY 8C/white)			PCS	6.0000 1 0.00 %	2003/05/23 N
-0034-----	NI00896 knob cover φ8.5*4 072C			PCS	6.0000 1 0.00 %	2003/05/23 N
-0035-----	NF00061 assurance card ▲LTO			PCS	1.0000 1 0.00 %	2003/05/23 N
-0036-----	HA01333 single terminal wiring CF:W76 150mm UL1015 18AWG green/yellow			PCS	1.0000 1 0.00 %	2003/05/23 N
-0037-----	HA02190 wire 150mm			PCS	1.0000 1 0.00 %	2003/05/23 N
-0038-----	HC00015 AC outlett (S)315-B (AC select)			PCS	1.0000 1 0.00 %	2003/05/23 N
-0039-----	HD00023 fuse(T) 200mA 250V φ5.2*20mm CSA/S/UL/VDE			PCS	1.0000 1 0.00 %	2003/07/25 N
-0040-----	NI00839 knob 5*5*15(3.3*3.3)black			PCS	10.0000 1 0.00 %	2003/05/23 N
-0041-----	MF00061 washer JY-6351G-02-250			PCS	2.0000 1 0.00 %	2003/05/23 N
-0042-----	ME00060 socket nut JY-6351G-02-250			PCS	2.0000 1 0.00 %	2003/05/23 N
-0043-----	HA01835 P.V.C single wave wired UL1617 80 brown			PCS	1.0000 1 0.00 %	2003/05/23 N
-0044-----	HA00078 wire 250mm black L3R3			PCS	1.0000 1 0.00 %	2003/05/23 N

Multi-Level BOM Structure Listing

Report No.: IEBO_P02
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Date 2003/08/11
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Item No. PF00882 Version
 DESCRIPTION: ALTO MONITOR
 ALTO MONITOR ALTO 230V Europe

UNIT: PCS
 Date: 2003/05/23

Version	Item No Item Descri	Loss %	Ver.	Unit	Cardinal Usage Rate Attrition Rate	Effective Date @:Phantom Layer Rate
-0045-----	NB02163 barrier X23,34,40			PCS	1.0000 1 0.00 %	2003/05/23 N
-0046-----	NB02164 barrier X23,34,40			PCS	1.0000 1 0.00 %	2003/05/23 N
-0047-----	NI00218 cable tie-black ALT-102SB			PCS	2.0000 1 0.00 %	2003/05/23 N
-0048-----	SD00079 integrated circuit 7915(TO-220) TR2			PCS	1.0000 1 0.00 %	2003/05/23 N
-0049-----	SD00077 integrated circuit 7815(TO-220) TR1			PCS	1.0000 1 0.00 %	2003/05/23 N
-0050-----	MF00048 washer φ 4* φ 8*0.5t			PCS	3.0000 1 0.00 %	2003/05/23 N
-0051-----	MF00020 washer φ 5* φ 12*1t			PCS	1.0000 1 0.00 %	2003/05/23 N
-0052-----	MF00038 washer φ 4* φ 7*1t			PCS	1.0000 1 0.00 %	2003/05/23 N
-0053-----	MG00111 screw pill 4*30			PCS	1.0000 1 0.00 %	2003/05/23 N
-0054-----	ME00016 colour nut 4m/m			PCS	2.0000 1 0.00 %	2003/05/23 N
-0055-----	ND00030 nonwoven 33*154 2016B			PCS	1.0000 1 0.00 %	2003/05/23 N
-0056-----	HJ00006 desiccant 30g			PCS	1.0000 1 0.00 %	2003/05/23 N
-0057-----	NA00123 PE bag 0.04t*580*300mm			PCS KG	1.0000 1 0.00 %	2003/05/23 N
-0058-----	NA00137 clip-chain bag 5*7			PCS	1.0000 1 0.00 %	2003/05/23 N
-0059-----	HA00861 power cord Europe 3P LT-312+LT-501			PCS	1.0000 1 0.00 %	2003/05/23 N
-0060-----	HK03899 PC board P-MONITORFP-DIP			PCS	1.0000 1 0.00 %	2003/05/23 N
-0001-----	HI00163 按壓式SW 2段12P PS-42E85L(3.3x3.3) SW4,SW8,SW9			PCS	3.0000 1 0.00 %	2003/05/23 N
-0002-----	HI00162 按壓式SW 2段6P PS-22E8552L(3.3x3.3) SW1,SW2,SW3,SW5,SW6,SW7,SW10			PCS	7.0000 1 0.00 %	2003/05/23 N
-0003-----	RC00015 sliding potentiometer RA2043-20,handle 20,100KW,whit VR1,VR2,VR3,VR4,VR5,VR6,VR7,VR8,VR9,VR10,VR11,VR12, VR13,VR14,VR15,VR16			PCS	16.0000 1 0.00 %	2003/05/23 N

Multi-Level BOM Structure Listing

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Date 2003/08/11
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Item No. PF00882 Version
 DESCRIPTION: ALTO MONITOR
 ALTO MONITOR ALTO 230V Europe

UNIT: PCS
 Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition	Rate
-0004-----	CB00006 electrotytic capacitor 1uF/50V φ4*5 C89			PCS	1.0000 1 0.00 %	2003/05/23 N
-0005-----	CB00021 electrotytic capacitor 10uF/16V φ4*5 C31,C36,C37,C42,C137,C46,C156			PCS	7.0000 1 0.00 %	2003/05/23 N
-0006-----	SA00069 light emitting diode circle*square red LED19			PCS	1.0000 1 0.00 %	2003/05/23 N
-0007-----	SA00139 L.E.D φ2 (L-1464YD) LED18			PCS	1.0000 1 0.00 %	2003/05/23 N
-0008-----	SA00138 L.E.D φ2 gred(L-1464GD) LED1,LED2,LED3,LED4,LED5,LED6,LED7,LED8,LED10,LED11, LED12,LED13,LED14,LED15,LED16,LED17			PCS	16.0000 1 0.00 %	2003/05/23 N
-0009-----	HC00065 row-wire header 2P 2.5mm 90° J2			PCS	1.0000 1 0.00 %	2003/05/23 N
-0010-----	HA02078 wire 12P-12P 220 J1			PCS	1.0000 1 0.00 %	2003/05/23 N
-0011-----	RC00229 potentiometer R1411G0A-V1C104FN00-00 VR18,VR21,VR22			PCS	3.0000 1 0.00 %	2003/05/23 N
-0012-----	RC00230 potentiometer R0911NOB-V1-A104FN00-00 VR17,VR19,VR20			PCS	3.0000 1 0.00 %	2003/05/23 N
-0013-----	HK03900 K-PCB P-MONITORFP-SMD			PCS	1.0000 1 0.00 %	2003/05/23 N
-0001-----	HB00924 pc board MONITORFP(1*4)_VER030522			PCS	1.0000 1 0.00 %	2003/05/23 N
-0002-----	RD00297 resistor 60.4Ω ±1% 0603 R62,R65			PCS	2.0000 1 0.00 %	2003/05/23 N
-0003-----	RD00274 resistor 100Ω ±1% 0603 R168			PCS	1.0000 1 0.00 %	2003/05/23 N
-0004-----	RD00275 resistor 110Ω ±1% 0603 R169			PCS	1.0000 1 0.00 %	2003/05/23 N

Multi-Level BOM Structure Listing

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Item No. PF00882 Version
 DESCRIPTION: ALTO MONITOR
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UNIT: PCS
 Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition	Rate
-0005-----	RD00277 resistor 200Ω ±1% 0603 R167,R185			PCS	2.0000 1 0.00 %	2003/05/23 N
-0006-----	RD00278 resistor 301Ω ±1% 0603 R186			PCS	1.0000 1 0.00 %	2003/05/23 N
-0007-----	RD00279 resistor 402Ω ±1% 0603 R166,R187,R188			PCS	3.0000 1 0.00 %	2003/05/23 N
-0008-----	RD00315 resistor 475Ω ±1% 0603 R6,R22,R23,R29,R33			PCS	5.0000 1 0.00 %	2003/05/23 N
-0009-----	RD00361 resistor 511Ω ±1% 0603 R73,R87,R189,R190,R191,R192			PCS	6.0000 1 0.00 %	2003/05/23 N
-0010-----	RD00281 resistor 806Ω ±1% 0603 R165			PCS	1.0000 1 0.00 %	2003/05/23 N
-0011-----	RD00282 resistor 1.00KΩ ±1% 0603 R28,R32,R42,R44,R49,R170			PCS	6.0000 1 0.00 %	2003/05/23 N
-0012-----	RD00396 SMD resistor 1.15KΩ ±1% 0603 R134,R194			PCS	2.0000 1 0.00 %	2003/05/23 N
-0013-----	RD00283 resistor 1.58KΩ ±1% 0603 R164			PCS	1.0000 1 0.00 %	2003/05/23 N
-0014-----	RD00203 SMDprecise resistor 1/10W 2.00KΩ ±1% 0603 R54,R154			PCS	2.0000 1 0.00 %	2003/05/23 N
-0015-----	RD00392 resistor 2.2KΩ ±1% 0603 R21,R24,R25,R26,R27,R30,R34,R35,R36,R68,R69,R91			PCS	12.0000 1 0.00 %	2003/05/23 N
-0016-----	RD00271 SMD fixed resistor 1/10W 2.67KΩ ±1% 0603 R59,R78,R158			PCS	3.0000 1 0.00 %	2003/05/23 N
-0017-----	RD00385 resistor 3.01KΩ ±1% 0603 R9,R80			PCS	2.0000 1 0.00 %	2003/05/23 N

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Item No. PF00882 Version
 DESCRIPTION: ALTO MONITOR
 ALTO MONITOR ALTO 230V Europe

UNIT: PCS
 Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal Usage Rate	Effective Date @:Phantom Layer Attrition Rate
0018-----	RD00363 resistor 3.16KΩ ±1% 0603 R57,R64,R126,R146			PCS	4.0000 1 0.00 %	2003/05/23 N
0019-----	RD00285 resistor 3.24KΩ ±1% 0603 R67,R130,R150,R163,R193			PCS	5.0000 1 0.00 %	2003/05/23 N
0020-----	RD00414 resistor 3.90KΩ ±1% 0603 R104,R108,R112,R116,R120,R124,R128,R132,R136,R140, R144,R148,R152,R156,R160			PCS	15.0000 1 0.00 %	2003/05/23 N
0021-----	RD00364 resistor 4.02KΩ ±1% 0603 R83			PCS	1.0000 1 0.00 %	2003/05/23 N
0022-----	RD00397 SMD resistor 4.22KΩ ±1% 0603 R118,R122			PCS	2.0000 1 0.00 %	2003/05/23 N
0023-----	RD00286 resistor 4.53KΩ ±1% 0603 R63,R66			PCS	2.0000 1 0.00 %	2003/05/23 N
0024-----	RD00209 SMDprecise resistor 1/10W 4.99KΩ ±1% 0603 R43,R93			PCS	2.0000 1 0.00 %	2003/05/23 N
0025-----	RD00210 SMDprecise resistor 1/10W 5.11KΩ ±1% 0603 R38,R39,R40,R41,R71,R75,R79,R81,R85,R88,R89,R92,R95, R97,R72			PCS	15.0000 1 0.00 %	2003/05/23 N
0026-----	RD00299 resistor 5.76KΩ ±1% 0603 R61			PCS	1.0000 1 0.00 %	2003/05/23 N
0027-----	RD00300 resistor 6.04KΩ ±1% 0603 R60			PCS	1.0000 1 0.00 %	2003/05/23 N
0028-----	RD00287 resistor 6.34KΩ ±1% 0603 R133,R162			PCS	2.0000 1 0.00 %	2003/05/23 N
0029-----	RD00288 resistor 6.81KΩ ±1% 0603 R114,R153			PCS	2.0000 1 0.00 %	2003/05/23 N
0030-----	RD00289 resistor 8.06KΩ ±1% 0603 R142,R161			PCS	2.0000 1 0.00 %	2003/05/23 N

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Item No. PF00882 Version
 DESCRIPTION: ALTO MONITOR
 ALTO MONITOR ALTO 230V Europe

UNIT: PCS
 Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition	Rate
-0031-----	RD00214 SMDprecise resistor 1/10W 10.0KΩ ±1% 0603 R1,R2,R3,R4,R5,R10,R11,R12,R14,R17,R20,R37,R47,R48, R50,R52,R53,R55,R56,R58,R70,R76,R77,R82,R84,R86,R90, R94,R96,R100,R110,R129,R149,R173,R174,R175,R176,R177, R178,R179,R180,R181			PCS	42.0000 1 0.00 %	2003/05/23 N
-0032-----	RD00301 resistor 12.1KΩ ±1% 0603 R131			PCS	1.0000 1 0.00 %	2003/05/23 N
-0033-----	RD00216 SMDprecise resistor 1/10W 13.3KΩ ±1% 0603 R117,R135,R138			PCS	3.0000 1 0.00 %	2003/05/23 N
-0034-----	RD00367 resistor 15.4KΩ ±1% 0603 R155			PCS	1.0000 1 0.00 %	2003/05/23 N
-0035-----	RD00368 resistor 16.5KΩ ±1% 0603 R106,R125,R145			PCS	3.0000 1 0.00 %	2003/05/23 N
-0036-----	RD00358 resistor 18.2KΩ ±1% 0603 R159,R182			PCS	2.0000 1 0.00 %	2003/05/23 N
-0037-----	RD00219 SMDprecise resistor 1/10W 20.0KΩ ±1% 0603 R7,R8,R15,R16,R18,R19,R51,R98,R99,R113,R151			PCS	11.0000 1 0.00 %	2003/05/23 N
-0038-----	RD00356 resistor 26.1KΩ ±1% 0603 R121,R141			PCS	2.0000 1 0.00 %	2003/05/23 N
-0039-----	RD00302 resistor 28.0KΩ ±1% 0603 R102			PCS	1.0000 1 0.00 %	2003/05/23 N
-0040-----	RD00266 SMD 1/10W precise resistor 30.1KΩ ±1% 0603 R119,R172			PCS	2.0000 1 0.00 %	2003/05/23 N
-0041-----	RD00421 resistor 30.9KΩ ±1% 0603 R111			PCS	1.0000 1 0.00 %	2003/05/23 N
-0042-----	RD00370 resistor 33.2KΩ ±1% 0603 R109			PCS	1.0000 1 0.00 %	2003/05/23 N
-0043-----	RD00407 resistor 36.0KΩ ±1% 0603 R127,R147			PCS	2.0000 1 0.00 %	2003/05/23 N

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Item No. PF00882 Version
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 ALTO MONITOR ALTO 230V Europe

UNIT: PCS
 Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition	Rate
-0044-----	RD00317 resistor 39.2KΩ ±1% 0603 R137			PCS	1.0000 1 0.00 %	2003/05/23 N
-0045-----	RD00223 SMDprecise resistor 1/10W 49.9KΩ ±1% 0603 R171			PCS	1.0000 1 0.00 %	2003/05/23 N
-0046-----	RD00371 resistor 51.1KΩ ±1% 0603 R105			PCS	1.0000 1 0.00 %	2003/05/23 N
-0047-----	RD00303 resistor 57.6KΩ ±1% 0603 R123,R143			PCS	2.0000 1 0.00 %	2003/05/23 N
-0048-----	RD00270 SMD fixed resistor 1/10W 82.5KΩ ±1% 0603 R101			PCS	1.0000 1 0.00 %	2003/05/23 N
-0049-----	RD00423 resistor 105KΩ ±1% 0603 R107			PCS	1.0000 1 0.00 %	2003/05/23 N
-0050-----	RD00225 SMDprecise resistor 1/10W 130KΩ ±1% 0603 R103			PCS	1.0000 1 0.00 %	2003/05/23 N
-0051-----	RD00292 resistor 1.00MΩ ±1% 0603 R31			PCS	1.0000 1 0.00 %	2003/05/23 N
-0052-----	RD00319 resistor 2.00MΩ ±1% 0603 R13			PCS	1.0000 1 0.00 %	2003/05/23 N
-0053-----	CI00047 SMDceramic capacitor0603 10PF/50V NPO ±5% C29			PCS	1.0000 1 0.00 %	2003/05/23 N
-0054-----	CI00050 SMDceramic capacitor0603 18PF/50V NPO ±5% C30			PCS	1.0000 1 0.00 %	2003/05/23 N
-0055-----	CI00052 SMDceramic capacitor0603 27PF/50V NPO ±5% C1,C2,C3,C4,C6,C7,C12,C16,C18,C19,C20,C26,C43			PCS	13.0000 1 0.00 %	2003/05/23 N
-0056-----	CI00059 SMDceramic capacitor0603 100PF/50V NPO ±5% C24,C28			PCS	2.0000 1 0.00 %	2003/05/23 N

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Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition Rate	Rate
-0057-----	CI00063 SMDceramic capacitor0603 470PF/50V NPO ±5% C13,C15,C151,C152			PCS	4.0000 1 0.00 %	2003/05/23 N
-0058-----	CI00064 SMDceramic capacitor0603 680PF/50V NPO ±5% C25,C27,C38,C40			PCS	4.0000 1 0.00 %	2003/05/23 N
-0059-----	CI00065 SMDceramic capacitor0603 0.001uF/50V X7R ±10% C5,C14			PCS	2.0000 1 0.00 %	2003/05/23 N
-0060-----	CI00069 SMDceramic capacitor0603 0.0033uF/25V X7R ±10% C32,C34,C70,C71,C73,C74,C76,C77,C79,C80,C82,C83,C85, C86			PCS	14.0000 1 0.00 %	2003/05/23 N
-0061-----	CI00091 SMD0603 ceramic capacitor 0.0056uF/50V X7R ±10% C17,C22			PCS	2.0000 1 0.00 %	2003/05/23 N
-0062-----	CI00092 SMD0603 ceramic capacitor 0.0068uF/50V X7R ±10% C39,C41			PCS	2.0000 1 0.00 %	2003/05/23 N
-0063-----	CI00073 SMDceramic capacitor0603 0.033uF/50V X7R ±10% C33,C35,C58,C59,C61,C62,C64,C65,C67,C68			PCS	10.0000 1 0.00 %	2003/05/23 N
-0064-----	CI00074 SMDceramic capacitor0603 0.047uF/25V X7R ±10% C93,C94,C95,C96,C97,C98,C99,C100,C101,C102,C103,C104, C105,C106,C107,C108,C109,C110,C111,C112,C113,C114, C115,C116,C117,C118,C119,C120,C121,C122,C123,C124, C125,C126,C127,C128,C129,C130,C131,C132,C133,C134, C135,C136			PCS	44.0000 1 0.00 %	2003/05/23 N
-0065-----	RD00437 smd resistor 44.2KΩ±1% 0603 R115,R183,R184			PCS	3.0000 1 0.00 %	2003/05/23 N
-0066-----	RD00438 smd resistor 90.9KΩ ±1% 0603 R139			PCS	1.0000 1 0.00 %	2003/05/23 N
-0067-----	CL00006 SMD tantalum capacitor 10uF/16V case B2 C48,C51,C54,C57,C60,C63,C66,C69,C72,C75,C78,C81,C84, C87,C153			PCS	15.0000 1 0.00 %	2003/05/23 N
-0068-----	SG00122 SMD integrated circuit NJM4580M-TE3 IC1, IC2, IC3, IC4, IC5, IC6, IC7, IC8, IC9, IC10, IC11, IC12, IC13, IC14, IC15, IC16, IC17, IC18, IC19, IC20			PCS	20.0000 1 0.00 %	2003/05/23 N

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 ALTO MONITOR ALTO 230V Europe

UNIT: PCS
 Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition	Rate
0069	SG00116 SMD積體電路 BA10339FV E2 IC21,IC22			PCS	2.0000 1 0.00 %	2003/07/17 N
0070	SF00004 SMD transistor 2SA1036K(R)(MMBT3906LT1) TR1			PCS	1.0000 1 0.00 %	2003/05/23 N
0071	SE00011 SMD rectifier diode RLS4148 0.5A (LL-34) D1,D2,D3			PCS	3.0000 1 0.00 %	2003/05/23 N
0072	CI00075 SMDceramic capacitor0603 0.1uF/50V Y5V +80,-20% C8,C9,C10,C11,C21,C23,C44,C45,C46,C47,C49,C50,C52,C53, C55,C56			PCS	16.0000 1 0.00 %	2003/05/23 N
0073	RD00439 SMDfixed resistor 1/10W 4.42KΩ ±1% 0603 R74,R46,R45,R157			PCS	4.0000 1 0.00 %	2003/05/23 N
0014	NI01768 LED間隔柱 LEDS-16 16mm			PCS	18.0000 1 0.00 %	2003/06/23
0061	HK03901 PC board P-MONITORPU			PCS	1.0000 1 0.00 %	2003/05/23 N
0001	HB00904 pc board MONITORPU(1*4)_VER030522			PCS	1.0000 1 0.00 %	2003/05/23 N
0002	HC00125 MIC jack JY-6351G-02-250 PJ1,PJ2			PCS	2.0000 1 0.00 %	2003/05/23 N
0003	HC00126 MIC jack for balance JY-5042-030G female plug 180° CN1			PCS	1.0000 1 0.00 %	2003/05/23 N
0004	HC00392 shape male JY-5030-030G 180° CN2			PCS	1.0000 1 0.00 %	2003/05/23 N
0005	HC00261 row-wire header 12P 2.0mm 180° J1			PCS	1.0000 1 0.00 %	2003/05/23 N
0006	HC00172 row-wire header 3P 3.96mm 180° R1			PCS	1.0000 1 0.00 %	2003/05/23 N
0007	SA00001 bridge rectifier 1A/400V RB154 BD1			PCS	1.0000 1 0.00 %	2003/05/23 N

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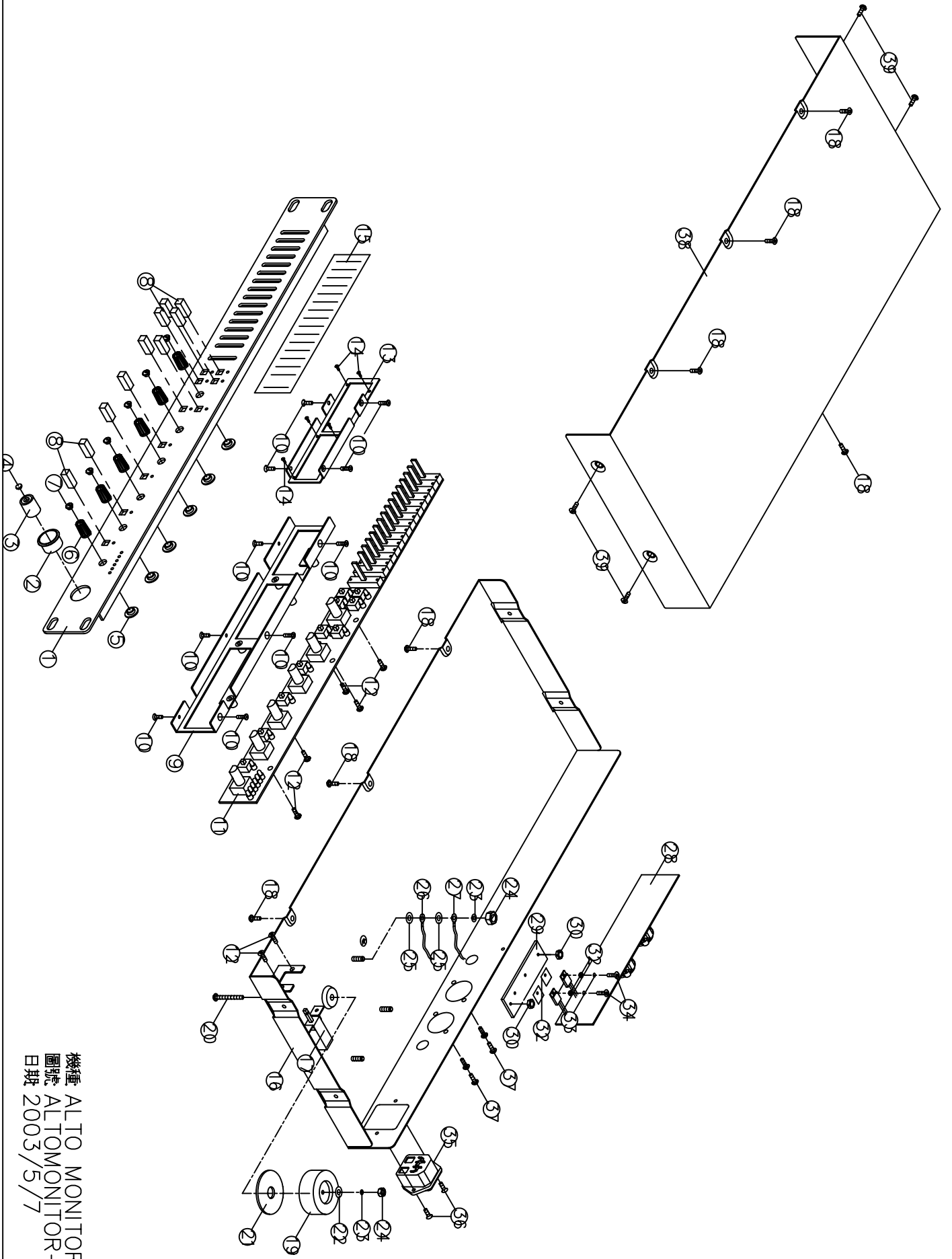
Item No. PF00882 Version
 DESCRIPTION: ALTO MONITOR
 ALTO MONITOR ALTO 230V Europe

UNIT: PCS
 Date: 2003/05/23

Version	Item No	Loss %	Ver.	Unit	Cardinal	Effective Date
Component Remark	Item Descri				Usage Rate	@:Phantom Layer
					Attrition Rate	Rate
0008-----	CB00071 electrotytic capacitor 1000uF/25V C7,C8			PCS	2.0000 1 0.00 %	2003/05/23 N
0009-----	CB00073 electrolytic capacitor 1000uF/35V φ13*20mm C5,C6			PCS	2.0000 1 0.00 %	2003/05/23 N
0010-----	CA00052 ceramic capacitor 0.1uF SL C1,C2,C3,C4			PCS	4.0000 1 0.00 %	2003/05/23 N
0062-----	NE05004 label ALTO			PCS	4.0000 1 0.00 %	2003/05/23 N
0063-----	NI00501 foot cushion 12.7*9*3t(SF-004)			PCS	4.0000 1 0.00 %	2003/05/31
0064-----	NI01627 fixed bracket CM-19S			PCS	1.0000 1 0.00 %	2003/06/19

8.Exploded Views & Mechanical Parts List

SIEMENS



機種 ALTO MONITOR
圖號 ALTO MONITOR-
日期 2003/5/7

