

**SAMSUNG**

# LCD-TV

Chassis  
GA46EO

Model  
LW46G15W

# *SERVICE Manual*

## LCD-TV



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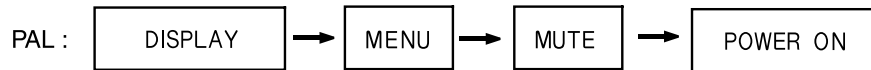
## 4 Alignments and Adjustments

### 4-1. Factory Mode OSD

#### 4-1-1 Entering Factory Mode

- a. To enter "Service Mode" Press the remote -control keys in this sequence :

- If you do not have Factory remote - control



- b. Adjust separately according to each input mode for factory mode adjustment.

- Mode1 : RF                      - Mode 2 : EXT 1, 2,3                      - Mode 3 : AV, S-Video
- Mode 4 : DVD/DTV(480i/P, 576i/P, 720P\_50/60Hz, 1080i-50/60Hz)
- Mode 5 : PC                      -Mode 6 : DVI, HDMI

※ Adjust with Offset and other adjustment item in case there is data difference according to item of the same mode.

- c. Cancellation method : - Power off => On, Factory reset => Power On
- d. Factory OSD Main Menu

```

Factory
1 SAA7119
2 FALCONIC
3 Gm1601H
4 DNle PRO
5 OPTION
6 Bus Stop      Off
7 Panel Adjust
8 Reset
Check Sum :    0000

07/27T-GAIA46PEU-1000
  
```

## 4 Alignments and Adjustments

### 1. SAA7119

Item: OSD	Address Description	Sub Address	Range	Input mode initial value						Remark
				TV(RF)	Ext1 Ext2 Ext3	AV S-video	Comp 480i/p 576i/p 720p_50/60 1080i_50/60	PC	DVI HDMI	
1.SAA7119				Mode-1	Mode-2	Mode-3	Mode-4	Mode-5	Mode-6	
MVCEN	MacroVision Copy-protection Enable	03H	D4	1	→	→	x	x	x	0:OFF,1:ON
HTC	horizontal time constant selection	08H	[4:3]	3	→	→	x	x	x	
ATVT	Automatic VCR/TV-Detection Threshold	1B	[7:6]	1	→	→	x	x	x	
VNOI	vertical noise reduction	08H	[1:0]	0	→	→	x	x	x	
LUFI	sharpness control, luminance filter characteristic	09H	[3:0]	5	→	→	x	x	x	
NAICO_Brig		0AH	[7:0]	124	→	→	x	x	x	
NAICO_Cont		0BH	[7:0]	60	→	→	x	x	x	
NAICO_Satu		0CH	[7:0]	48	→	→	x	x	x	
NAICO_Hue		0DH	[7:0]	0	→	→	x	x	x	
Status1	Status byte 1 video decoder	1EH	[7:0]	0	→	→	x	x	x	
Status2	Status byte 2 video decoder	1FH	[7:0]	0	→	→	x	x	x	
COMP_Brig		2AH	[7:0]	128	→	→	x	x	x	
COMP_Cont		2BH	[7:0]	62	→	→	x	x	x	
COMP_Satu		2CH	[7:0]	64	→	→	x	x	x	
TASKA_Brig		A4H	[7:0]	123	→	→	x	x	x	
TASKA_Cont		A5H	[7:0]	64	→	→	x	x	x	
TASKA_Satu		A5H	[7:0]	68	→	→	x	x	x	
LIMOD	Luminance Improvement	B6H	[7:6]	0	→	→	x	x	x	
LIFIL	Luminance Improvement	B6H	[5:3]	5	→	→	x	x	x	
LIWGT	Luminance Improvement	B6H	[2:0]	3	→	→	x	x	x	
CIMOD	Chrominance Improvement	B7H	[7:6]	3	→	→	x	x	x	
CIFIL	Chrominance Improvement	B7H	[5:3]	0	→	→	x	x	x	
CIWGT	Chrominance Improvement	B7H	[1:0]	3	→	→		x	x	

\*Adjusted data should be saved separately according to each input mode.

## 2. FALCONIC

Item: OSD		Sub Addre ss	Range	Input mode initial value						Remark
				TV (RF)	Ext1 Ext2 Ext3	AV S-video	Comp 480i/p 576i/p 720p_50/ 60 1080i_50/60	PC	DVI HDMI	
FALCONIC				Mode-1	Mode-2	Mode-3	Mode-4	Mode-5	Mode-6	
MOV_Fallback	movie_fall back	00H	[7]	0	→	→	x	x	x	
Interlace Shift	No_Deint_shift_Movie	03H	0	0	→	→	x	x	x	
De_ShiftF	Deint_shift	03H	[1:2]	3	→	→	x	x	x	
NR		05H	[0:1]	2	1	→	x	x	x	
Detect_ModeEv		05H	[7]	1	→	→	x	x	x	
HWE1_Fine Del		06H	[0:7]	0	→	→	x	x	x	
VWE1_Delay		07H	[0:6]	0	→	→	x	x	x	
Auto_MOV	Auto_Movie_Processing_off	08H	4	0	→	→	x	x	x	
Fallback23	GlobalActStepWidth Fallback23	09H	[6:7]	0	→	→	x	x	x	
SafeMode	Double Check Safe Mode	0AH	7	1	→	→	x	x	x	
V_Peaking		0BH	[4:7]	2	→	→	x	x	x	
Halo_Reduc	Halo Reduction	16H	7	1	→	→	x	x	x	
Fast_MOV23s	Not_FastMovie23 Switch	17H	2	0	→	→	x	x	x	
MOV_Fback1_Thr	MovieFallback_1_ Threshold	1BH	[0:7]	255	→	→	x	x	x	
MOV_Fback2_Thr	MovieFallback_2_ Threshold	1CH	[0:7]	255	→	→	x	x	x	
DCTI_Gain		29H	[0:2]	0	→	→	x	x	x	
DCTI_Threshold		29H	[3:6]	4	→	→	x	x	x	
DCTI_ddx_Sel		29H	[7]	1	→	→	x	x	x	
DCTI_limit		2AH	[0:1]	0	→	→	x	x	x	
SID_Off	StillImage Detection_off	3FH	0	0	→	→	x	x	x	
MinMov_Time		41H	[0:3]	0	→	→	x	x	x	
SID_Speed	Stilll image Detection Speed	41H	[4:5]	3	→	→	x	x	x	
SIGloActi_Thr	Still Image Global Activity Threshold	41H	[6:7]	2	→	→	x	x	x	
MOV_PAL/NTSC	VideoToMovieSwitch PenaltyPAL_NTSC	42H	[0:3]	8	→	→	x	x	x	
Phase_Slice		42H	[4:7]	10	→	→	x	x	x	

## 4 Alignments and Adjustments

### 1. Gm 1601H

Item: OSD	Adjustment IC	Sub Address	Range	Input mode initial value						Remark
				TV(RF)	Ext1 Ext2 Ext3	AV S-video	Comp 480i/p 576i/p 720p_50/60 1080i_50/ 60	PC	DVI HDMI	
4. Gm1601H				Mode-1	Mode-2	Mode-3	Mode-4	Mode-5	Mode-6	Automatic Code
Adc_Red_Offset	Gm1601H	0X30FA	0~255	x	x	x	(Auto Color)	(Auto Color)	x	
Adc_Grn_Offset (SBT)		0X3100	0~255	x	x	x	(Auto Color)	(Auto Color)	x	
Adc_Blu_Offset		0X3106	0~255	x	x	x	(Auto Color)	(Auto Color)	x	
Adc_Red_Gain		0X30FC	0~255	x	x	x	(Auto Color)	(Auto Color)	x	
Adc_Grn_Gain		0X3102	0~255	x	x	x	(Auto Color)	(Auto Color)	x	
Adc_Blu_Gain		0X3108	0~255	x	x	x	(Auto Color)	(Auto Color)	x	
R_Cutoff			0~255	←	←	←	←	128	→	03
G_Cutoff			0~255	←	←	128→126	←	128	→	04
B_Cutoff			0~255	←	←	←	←	128	→	05
R_Gain			0~255	←	←	←	←	255	→	00
G_Gain			0~255	←	←	←	←	255	→	01
B_Gain			0~255	←	←	←	←	255	→	02
Flesh Tone			0~ 3	←	←	←	←	0	→	
Auto color			No/Yes	←	←	←	1080i	1024x768 60h	x	
Gamma Tbl			Off	Off	Off	Off	Off	Off	→	
H Sharpness			0~ 12	6→9	→	→	7→8	6	→	
V Sharpness			0~ 12	3→4	→	→	3→4	6	→	

## 4. DNIE Pro

Item: OSD	Adjustment IC	Sub Address	Range	Input mode initial value						Remark
				TV (RF)	Ext1 Ext2 Ext3	AV S-video	Comp 480i/p 576i/p 720p_50/ 60 1080i_50/60	PC	DVI HDMI	
DNi <del>e</del> Pro				Mode-1	Mode-2	Mode-3	Mode-4	Mode-5	Mode-6	Automatic Code
Pattern_SEL		0x002 0	0000 ~ 0 013	0	→	→	0	→	→	
NR_LimitY		0x00 9B	0081 ~ FF81	127	→	→	125	→	→	
NR_LimitC		0X009B	7D00 ~ 7 DFF	129	→	→	129	→	→	
NR_SEL		0X0090	0000 ~ 3000	2	→	→	2	→	→	
DEP_Gain1_X		0X0100	4000 ~ 7F00	79	→	→	74	→	→	high frequency range
DEP_Gain1_Y		0X0101	0009 ~ 3F09	25	→	→	10	→	→	
DEP_Gain2_X		0X0101	0600 ~ 0 63F	5	→	→	3	→	→	low frequency range
DEP_Gain2_Y		0X0102	0000 ~ 3F00	5	→	→	3	→	→	
DEP_Scale_R		0X010A	B800 ~ B 8FF	64	→	→	64	→	→	
DEP_Sup_ScaleTH1		0X0109	006B ~ 1F6B	3	→	→	3	→	→	
DEP_Sup_ScaleTHF		0X0109	0300 ~ 0 3FF	16	→	→	16	→	→	
WTE_MCCT_FAC		0X0135	0000 ~ 03FF	150→0	→	→	150	→	→	
DCE_Adap_SEL		0X00D2	1400 ~ 1 403	2 →1	→	→	2	→	→	
BS_Tilt		0X00F3	00C8 ~ FFC8	80→48	→	→	80	→	→	By-pass: 64
BS_GainMax		0X00F5	0000 ~ 03FF	400→330	→	→	350	→	→	By-pass: 330
NE_Core		0X00A9	01A0 ~ 0 1AF	3	→	→	3	→	→	
NE_RTH2		0X00A4	11F0 ~ 11FF	3	→	→	3	→	→	
CTE_H_min	0X0155	0000 ~ 0 2FF	6	→	→	6		→		
DNi <del>e</del> Pro_RGain	0x016 0	0 ~ 255	120	→	→	121	128(Fixed)	→	00	
DNi <del>e</del> Pro_GGain	0x016 0	0 ~ 255	128(Fixed)	→	→	128(Fixed)	128(Fixed)	→		
DNi <del>e</del> Pro_BGain	0x016 1	0 ~ 255	132	→	→	128	128(Fixed)	→	02	
DNi <del>e</del> Pro_RCutoff	0x016 1	0 ~ 255	127	→	→	130	128(Fixed)	→	03	
DNi <del>e</del> Pro_GCutoff	0x16 2	0 ~ 255	128(Fixed)	→	→	128(Fixed)	128(Fixed)	→		
DNi <del>e</del> Pro_BCutoff	0x16 2	0 ~ 255	126	→	→	132	128(Fixed)	→	05	
CTE			ON/OFF	ON	→	→	ON	off	→	

✱ PC (Mode-6) Mode Adjustment : PC Analog “Grey Scale Pattern” to Auto Color adjustment.

✱ Component (Mode-4,5) Mode Adjustment : Component 480p, 1080i Mode to Auto Color DNIE White Balance adjustment.

#### 4 Alignments and Adjustments

##### 5. OPTION

###### 5.Option

Auto Power	On
DNle Demo	On
High Devi	Off
System	CW(SCAM L support), CZ(SCAM L deletion)
DDC Protect	Off
High Pilot	14
Low Pilot	7
AV Snd Delay	2
DTV Snd Delay	3
Channel Video Mute	On
LNA	OFF
Inch	46 Inch
TTX TOP	OFF ( NOW : FLOF)
TTX Lang	OSD Lang
Suwon CH Table	
Video Recall	
Panel Life Time	00000

6. Bus Stop                      Off

##### 7. Panel Adjust

###### 7.Panel Adjust

ANA DIMMING	180
PWM DIMMING	255
I2C(ANA DIMMING)Check	
I2C_Mean_OFS	0

##### 8. Reset



## 4-2 White Balance in each Mode Coordinates

Mode		AV (RF, S-VHS)	DVD(480i/p)	DTV(720p/1080i)	PC (RGB)	DVI(DTV)
W/B	High	267,263 + / -2	267,263 + / -2	267,263 + / -2	267,263 + / -2	267,263 + / -2
		64Ft + / -15	64Ft + / -15	64Ft + / -15	64Ft + / -15	64Ft + / -15
	Low	270,260 + / -5	270,260 + / -5	270,260 + / -5	270,260 + / -5	270,260 + / -5
		0.5Ft + / -0.05	0.5Ft + / -0.05	0.5Ft + / -0.05	0.5Ft + / -0.05	0.5Ft + / -0.05
SAA7119 NAICO_Brig		128	x	x	x	x
Gm1601 adc_Red_offset		x	←	50 (Auto Color)	50 (Auto Color)	x
Gm1601 adc_Grn_offset		x	←	50 (Auto Color)	50 (Auto Color)	x
Gm1601 adc_Blu_offset		x	←	50 (Auto Color)	50 (Auto Color)	x
Gm1601 adc_Blu_Gain		x	←	128 (Auto Color)	128 (Auto Color)	x
Gm1601 adc_Grn_Gain		x	←	128 (Auto Color)	128 (Auto Color)	x
Gm1601 adc_Red_Gain		x	←	128 (Auto Color)	128 (Auto Color)	x
(Gm1601) R_Cutoff		←	←	←	128	→
(Gm1601) G_Cutoff		←	←	←	128	→
(Gm1601) B_Cutoff		←	←	←	128	→
DNLePro R_Cutoff		Low Light Adjustment (x)	Low Light Adjustment (x)	Low Light Adjustment (x)	128(Fixed)	DTV Adjustment value
DNLePro G_Cutoff		128(Fixed)	128(Fixed)	128(Fixed)	128(Fixed)	DTV Adjustment value
DNLePro B_Cutoff		Low Light Adjustment (y)	Low Light Adjustment (y)	Low Light Adjustment (y)	128(Fixed)	DTV Adjustment value
DNLePro R_Gain		High Light Adjustment (x)	High Light Adjustment (x)	High Light Adjustment (x)	128(Fixed)	DTV Adjustment value
DNLePro G_Gain		128(Fixed)	128(Fixed)	128(Fixed)	128(Fixed)	DTV Adjustment value
DNLePro B_Gain		High Light Adjustment (y)	High Light Adjustment (y)	High Light Adjustment (y)	128(Fixed)	DTV Adjustment value

- Brightness adjustment for each model

- There is no High Light brightness adjustment. Use Wide Range Tolerance to inspect brightness.
- In other Modes except PC Mode, adjust Low/High Light Color the same way.
- Use IC Limitation to correct White Balance distortion in sub-screen of PIP/POP Picture.

1. "Auto Color" adjustment in PC Mode(16 Gray Pattern)

2. "Auto Color" adjustment in DTV Mode(16 RGB Gray Pattern)

- In an attempt to prevent Set-top Box Greenish problem, turn DNLe RGB White Balance Data of Micom Software Setting Offset.

3. AV (CVBS) Mode White Balance adjustment (Color axes adjustment and Low Light brightness adjustment)

- adjust SAA7119 TASKA\_Brig to control Low Light brightness value

4. 480p Mode White Balance adjustment (Color axes adjustment or Low Light brightness adjustment)

- Turn Micom Software Offset when entering 480i after adjustment in 480p

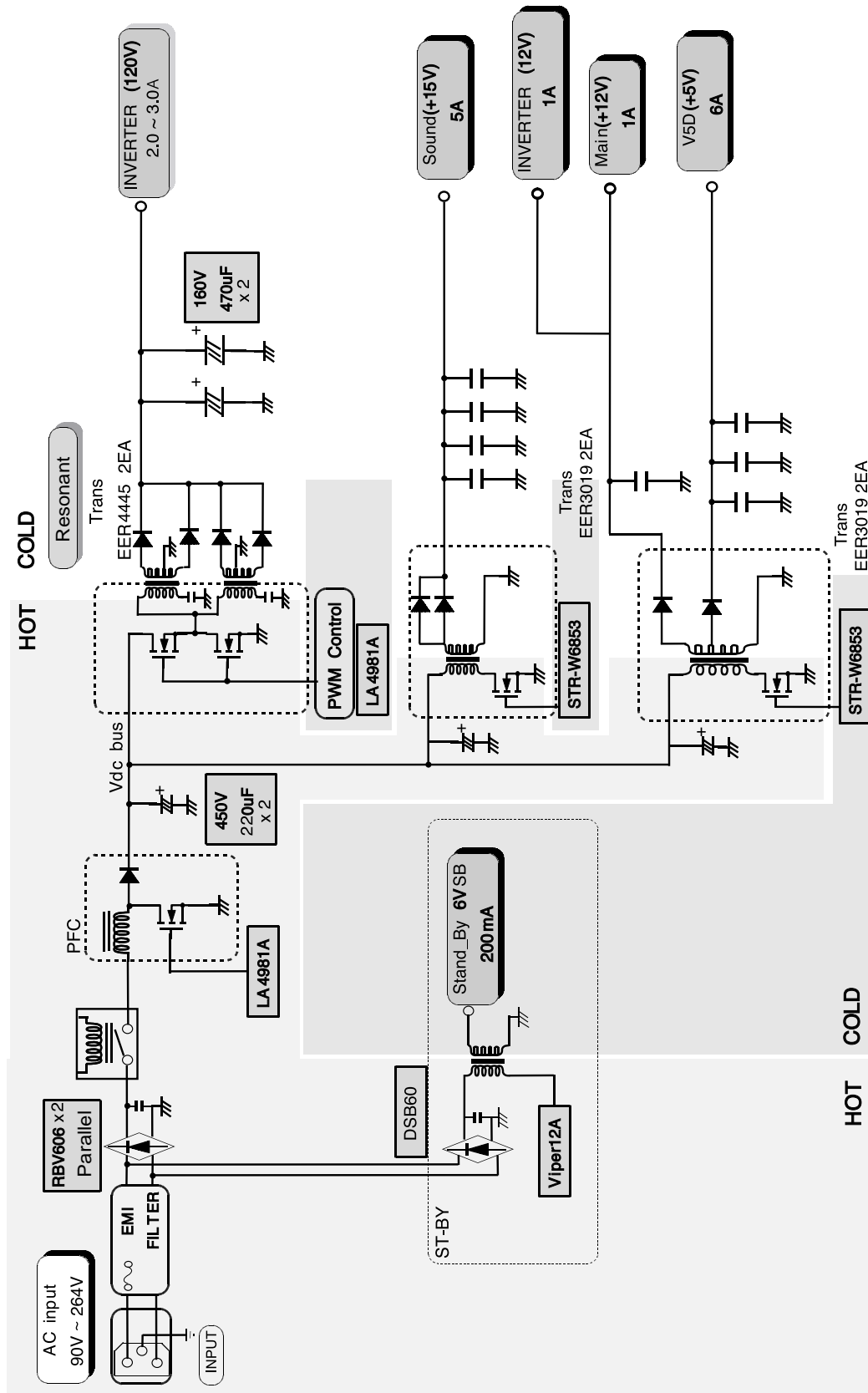
5. 1080i Mode White Balance adjustment (Color axes adjustment or Low Light brightness adjustment)

- Turn Micom Software Offset when entering 720p after adjustment in 1080i.

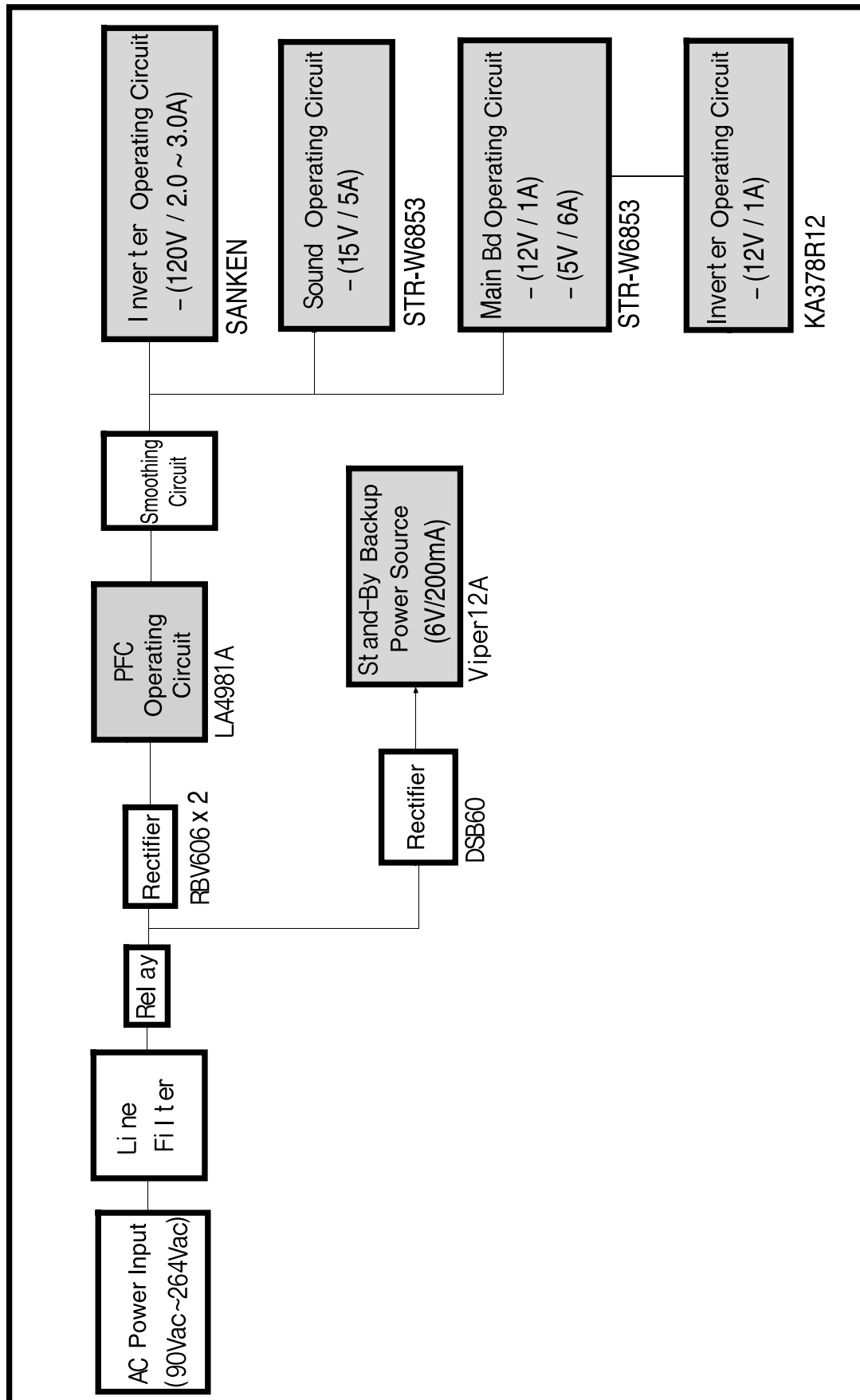
## Memo

# 8 Block Diagram

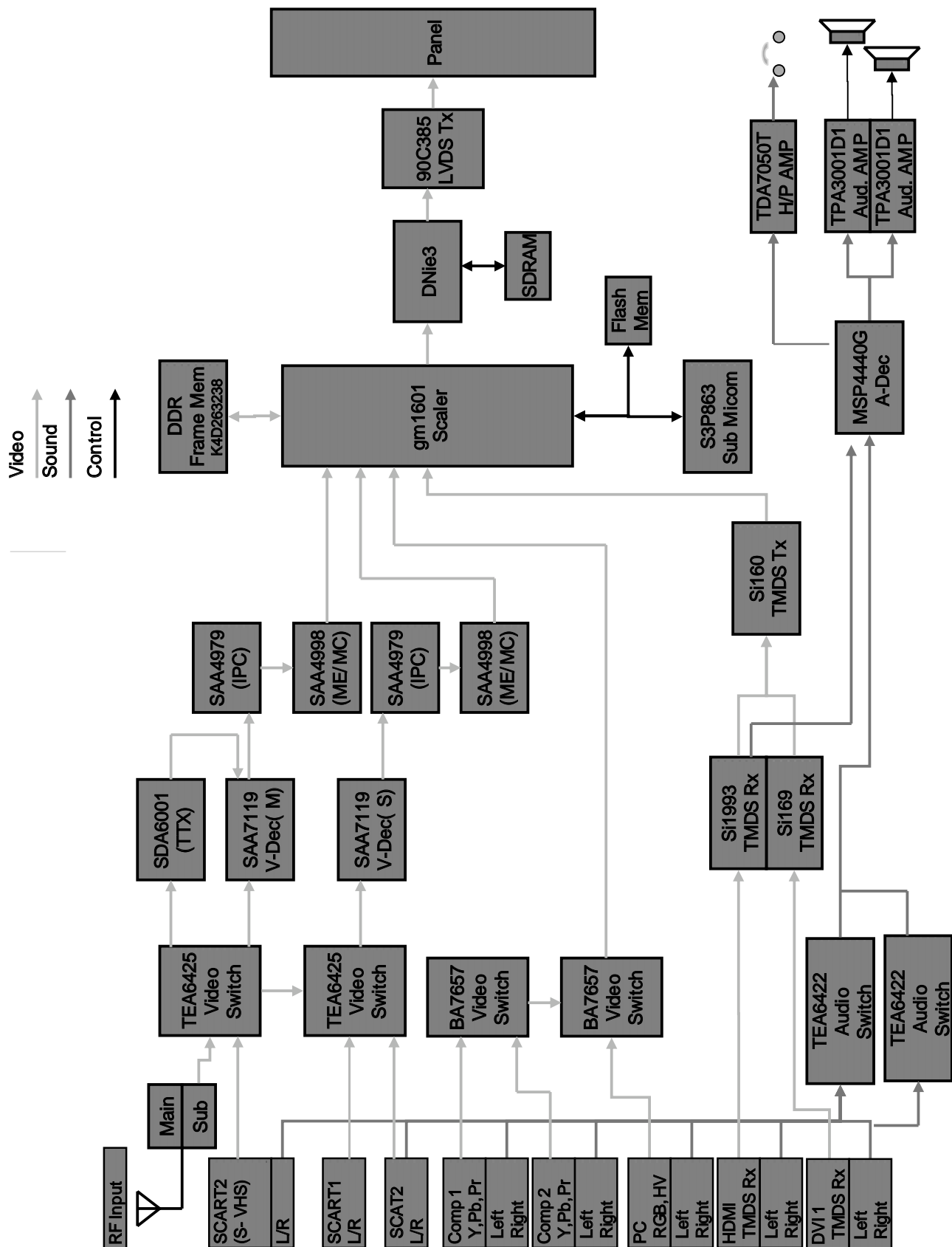
8-1 LCD-TV 46" 57" Power Block diagram



## 8-2 LCD-TV 46" Power Block diagram

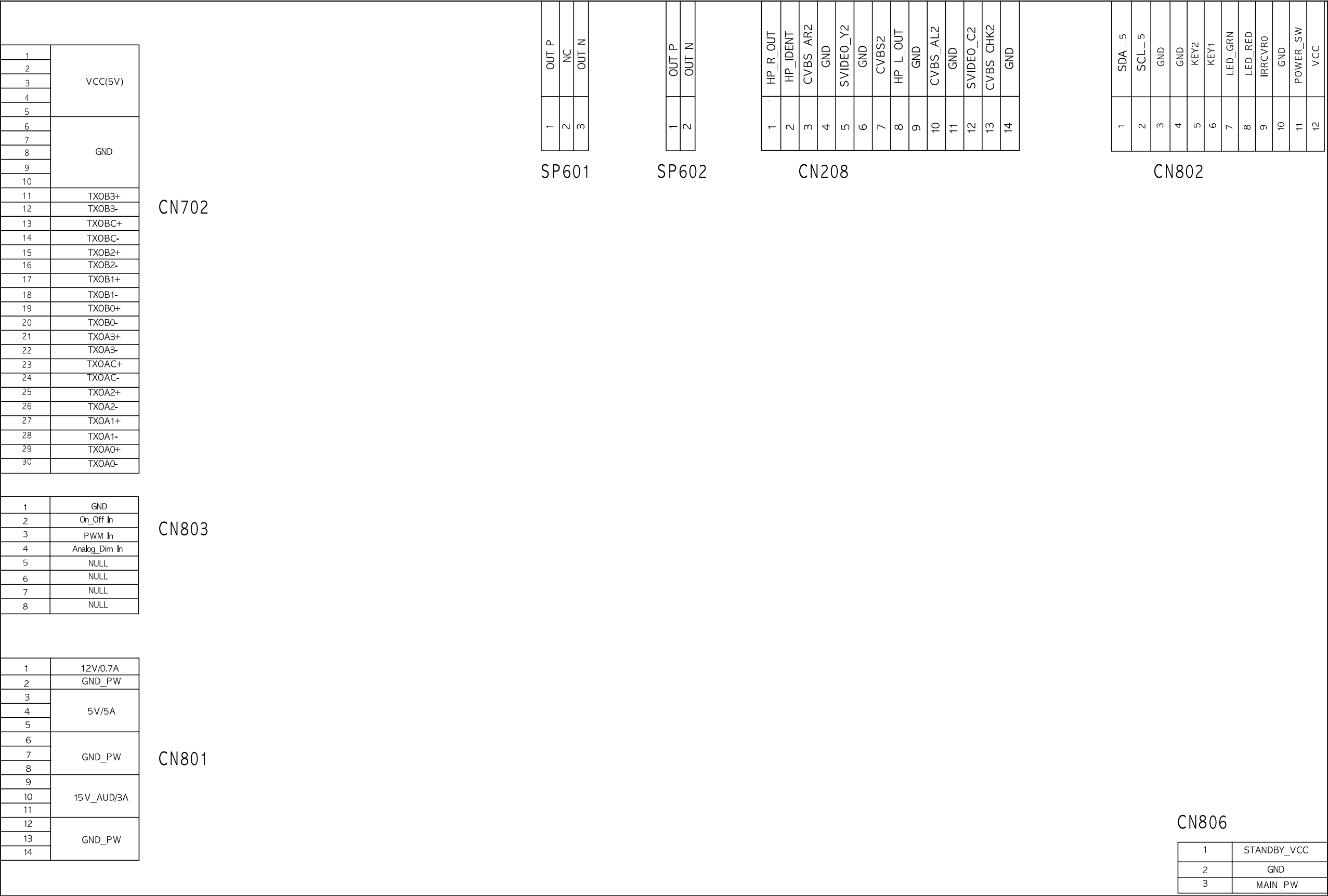


## 8-3 Main Block diagram



## Memo

9 Wiring Diagram



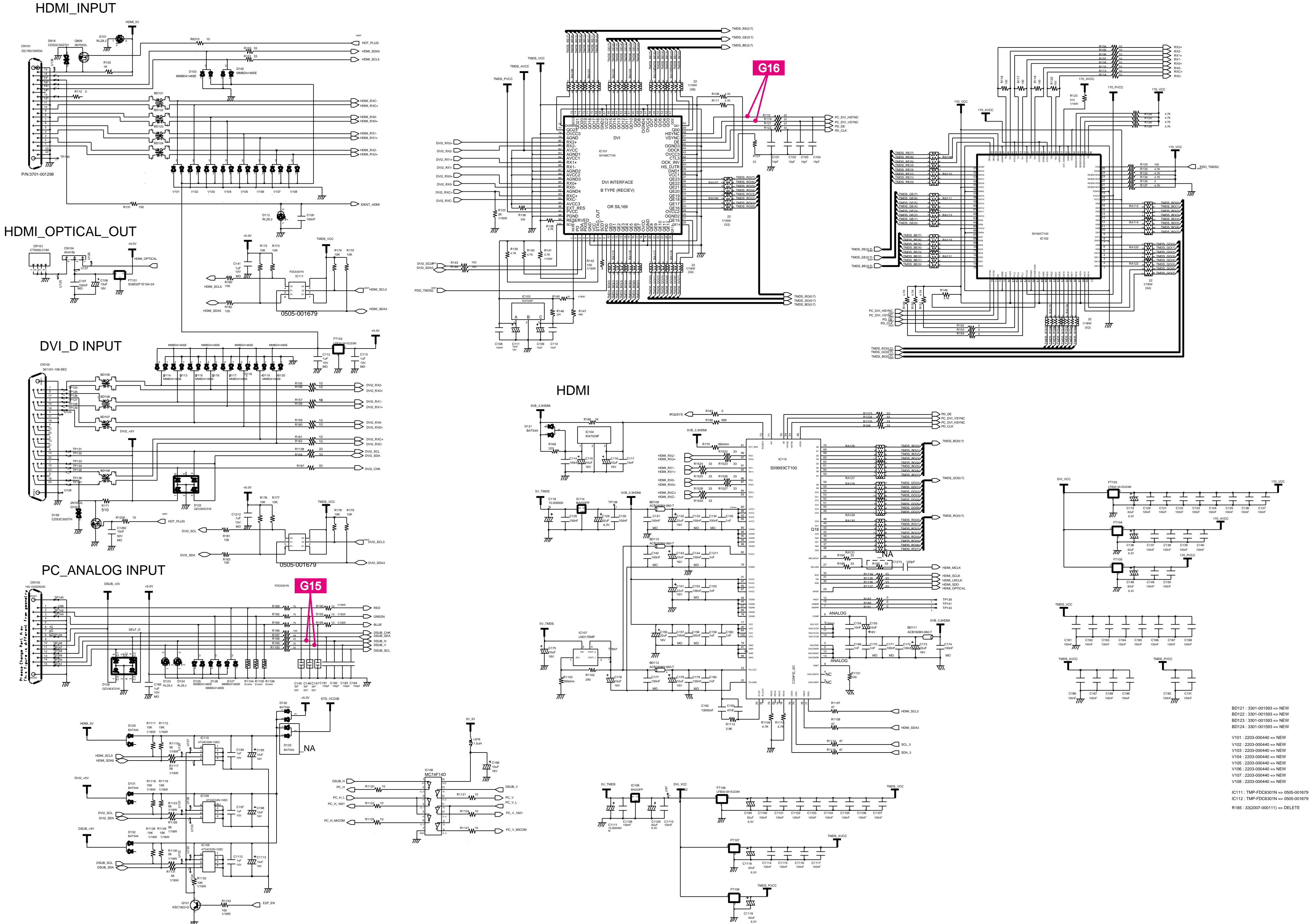
Memo



# 11 Schematic Diagrams

\* This Document can not be used without Samsung's authorization.

## 11-1 DVI & PC INPUT TMD5 INTERFACE Schematic Diagram



11-2



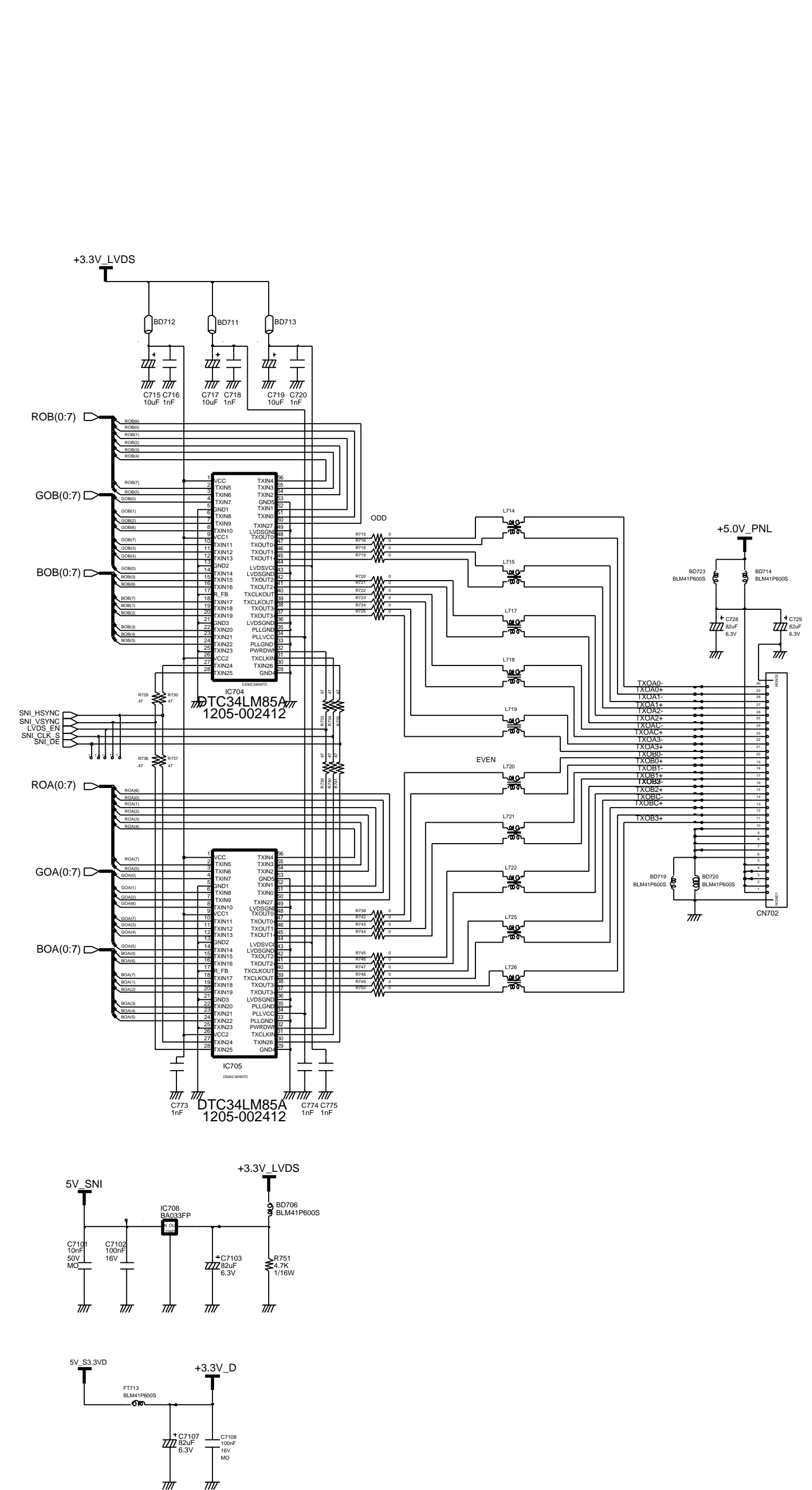
## LW46G15W

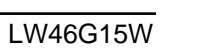
11-4

## LW46G15W





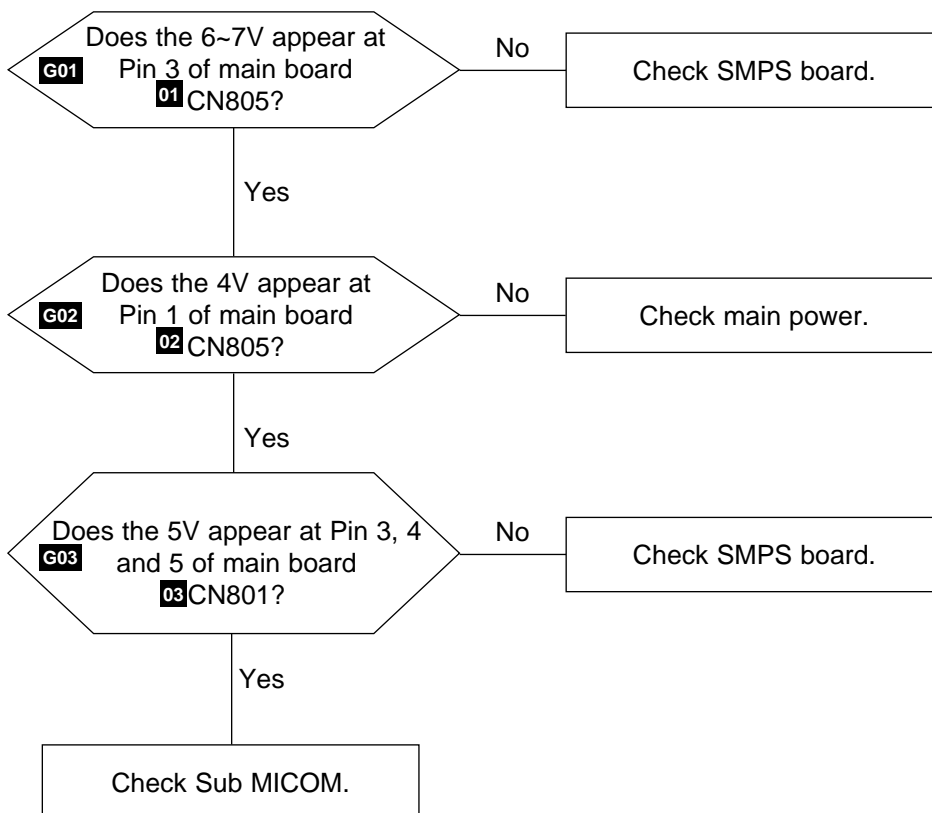


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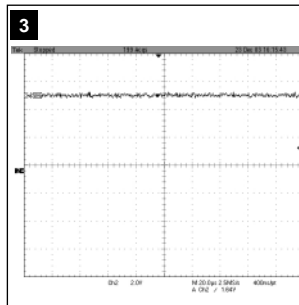
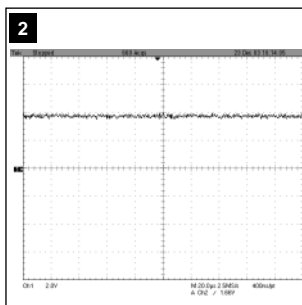
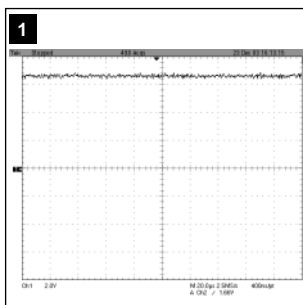


## 5 Troubleshooting

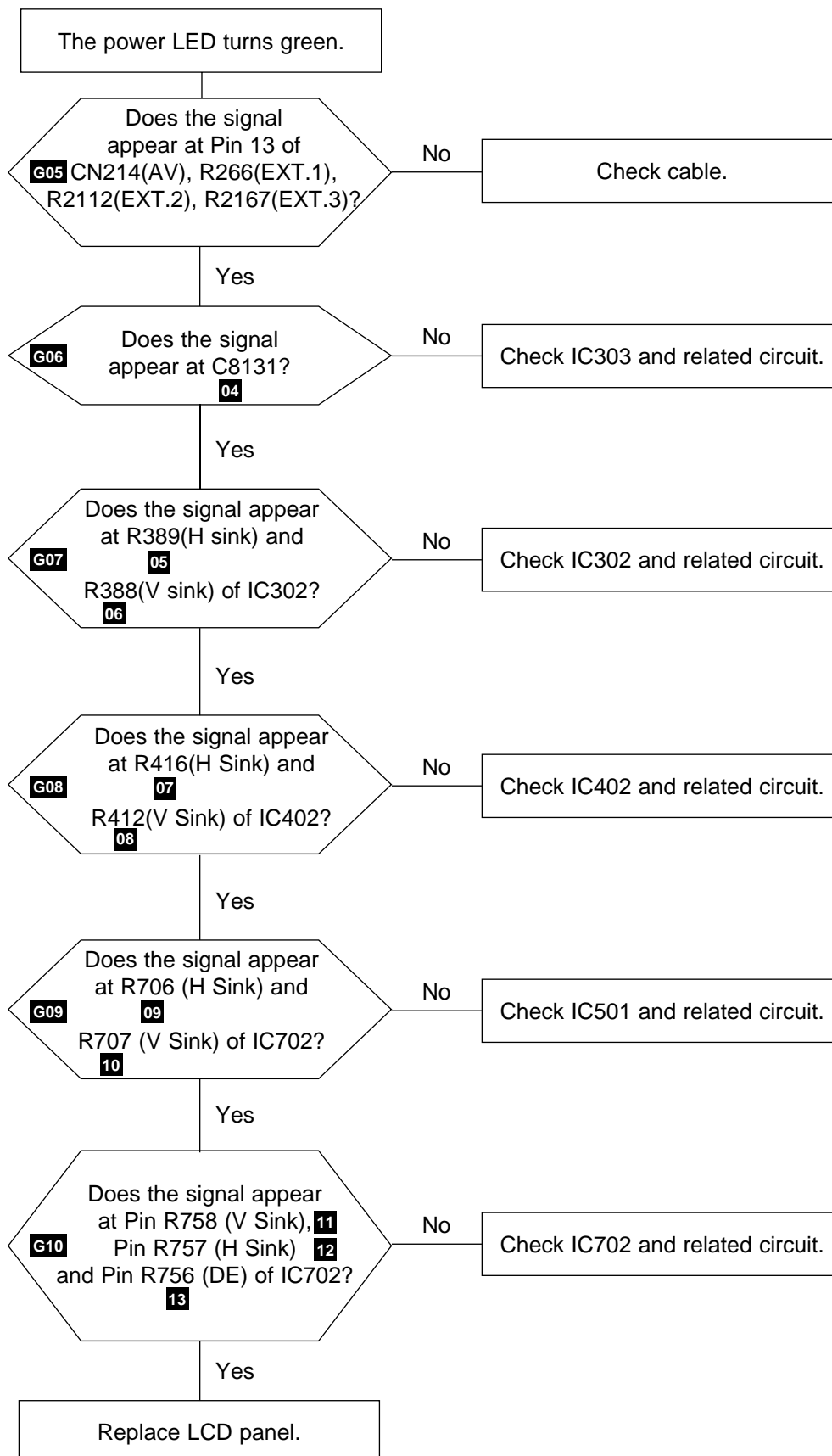
### 5-1 No Power



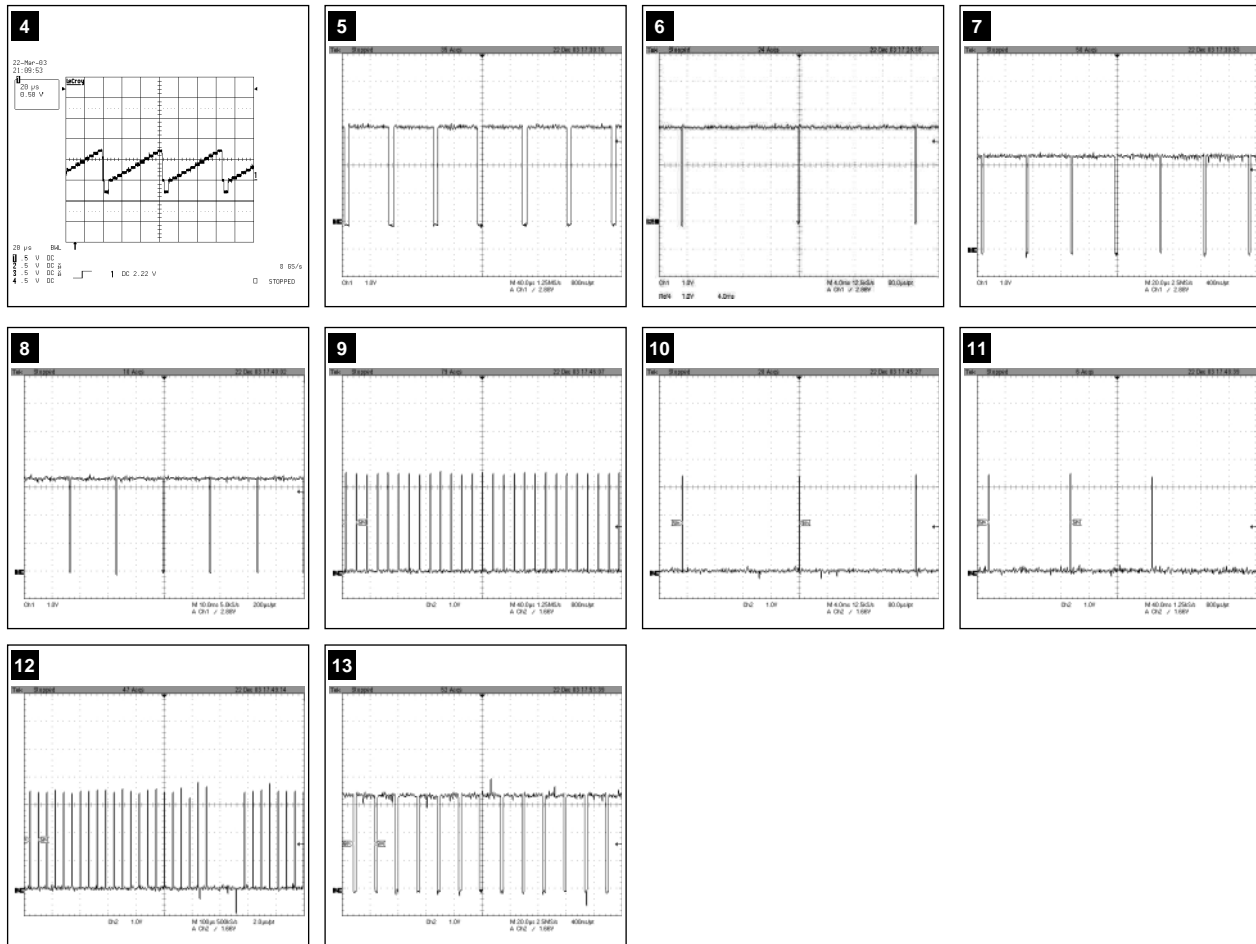
## WAVEFORMS



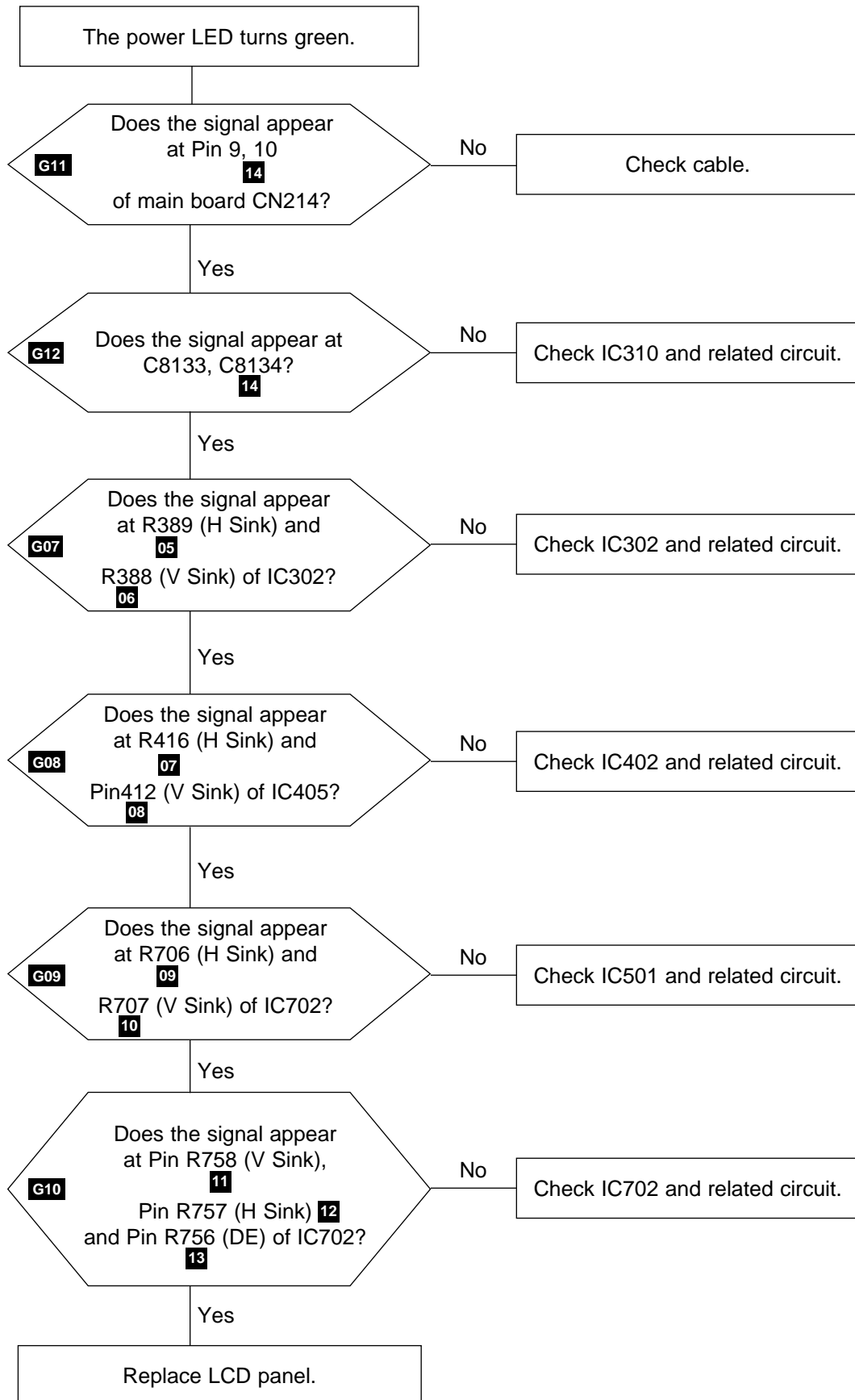
## 5-2 No Video (CVBS)



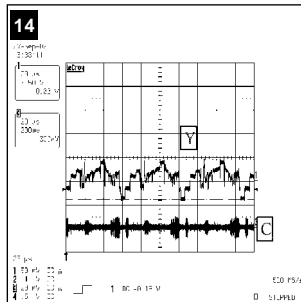
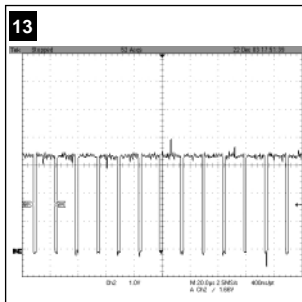
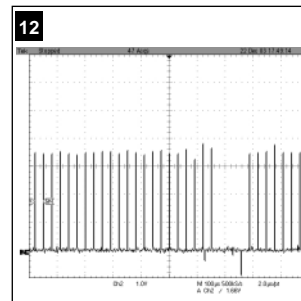
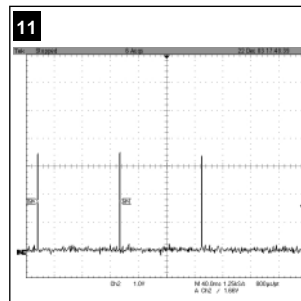
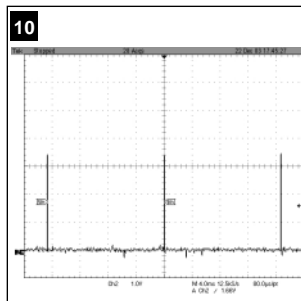
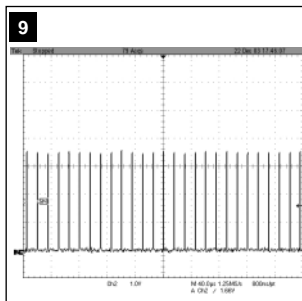
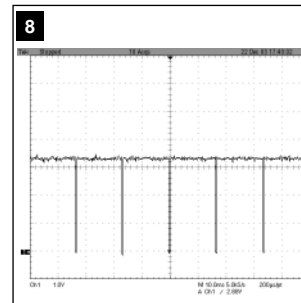
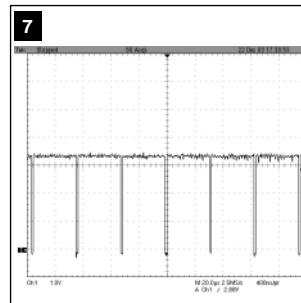
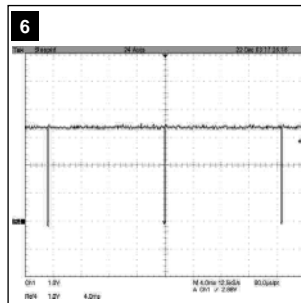
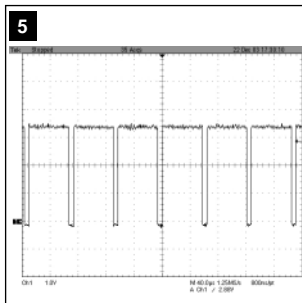
## WAVEFORMS



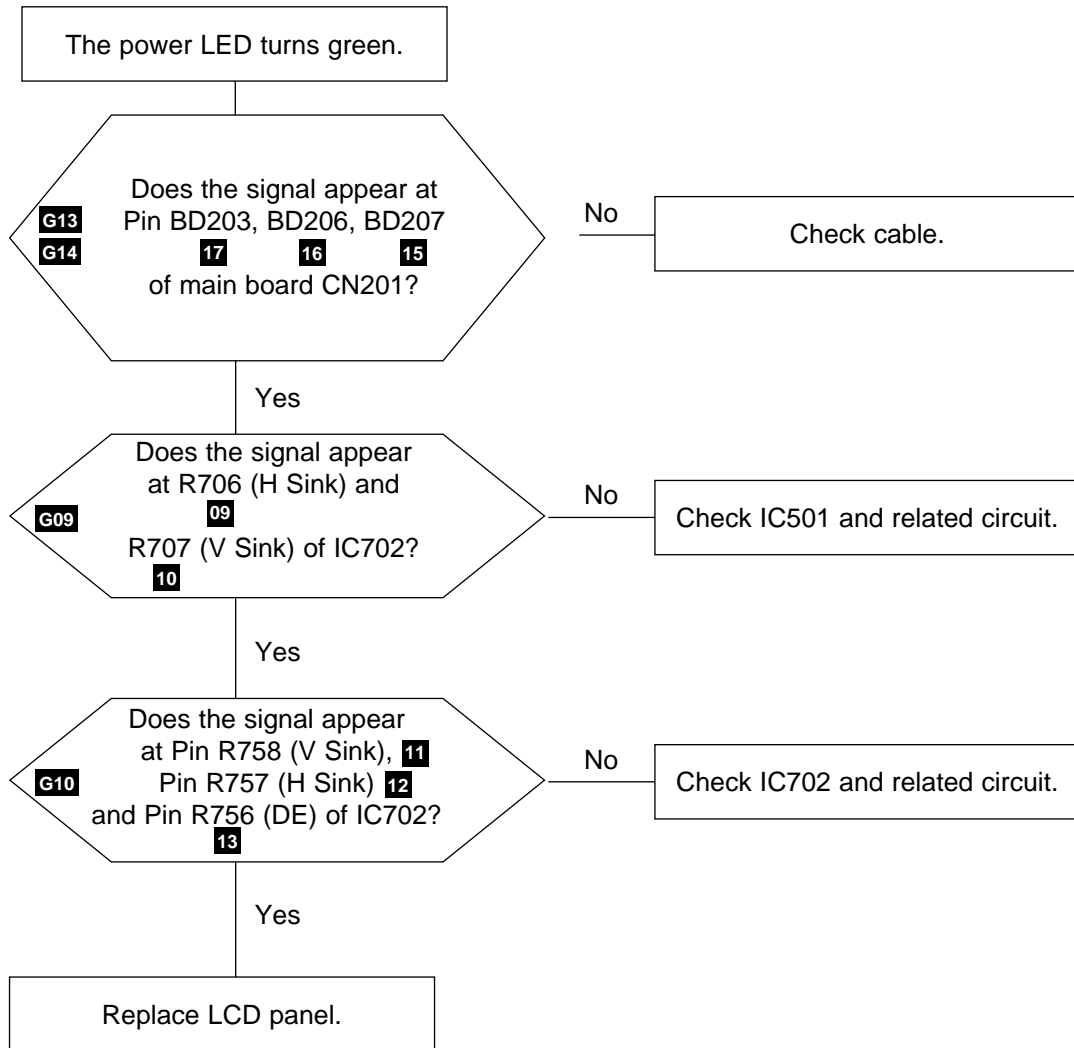
## 5-3 No Video (S-Video)



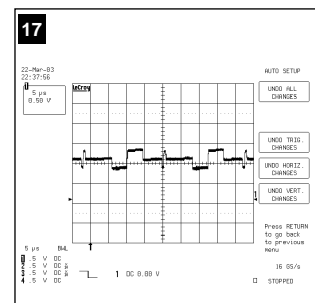
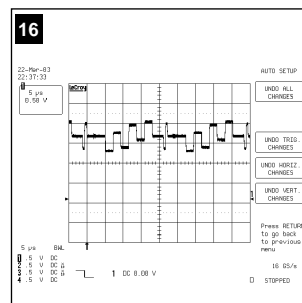
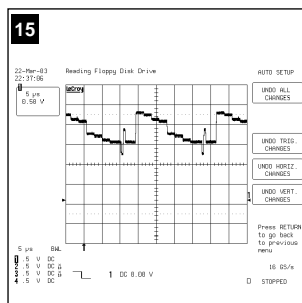
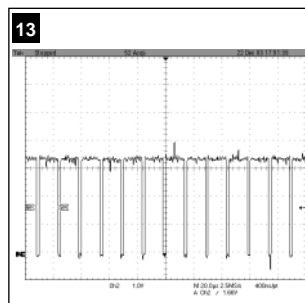
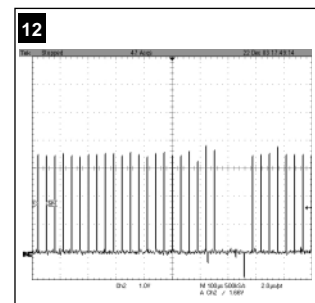
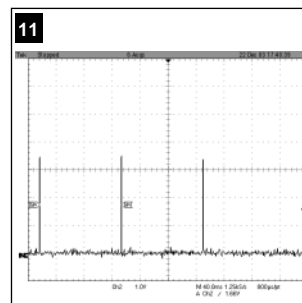
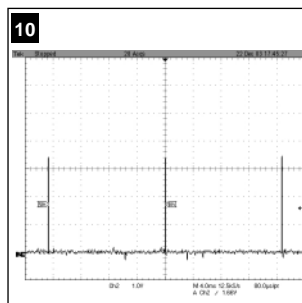
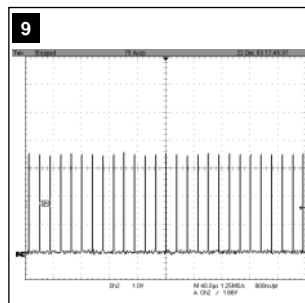
## WAVEFORMS



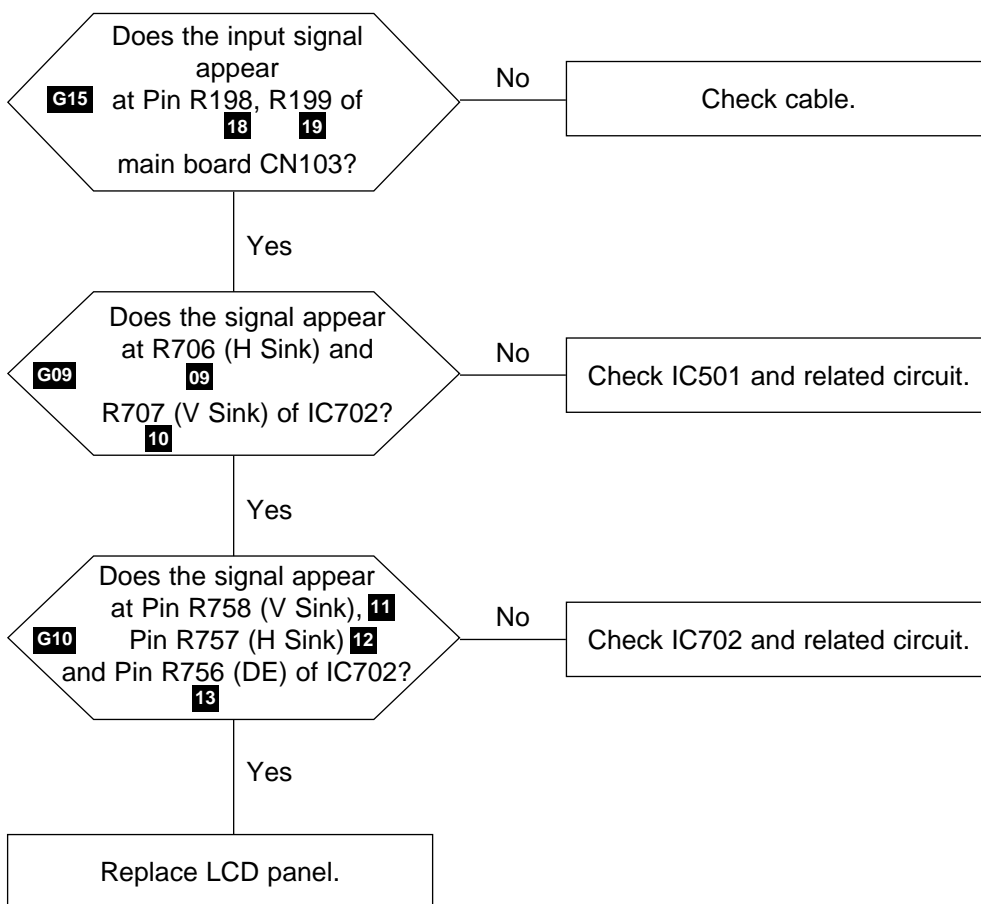
## 5-4 No Screen (Componet)



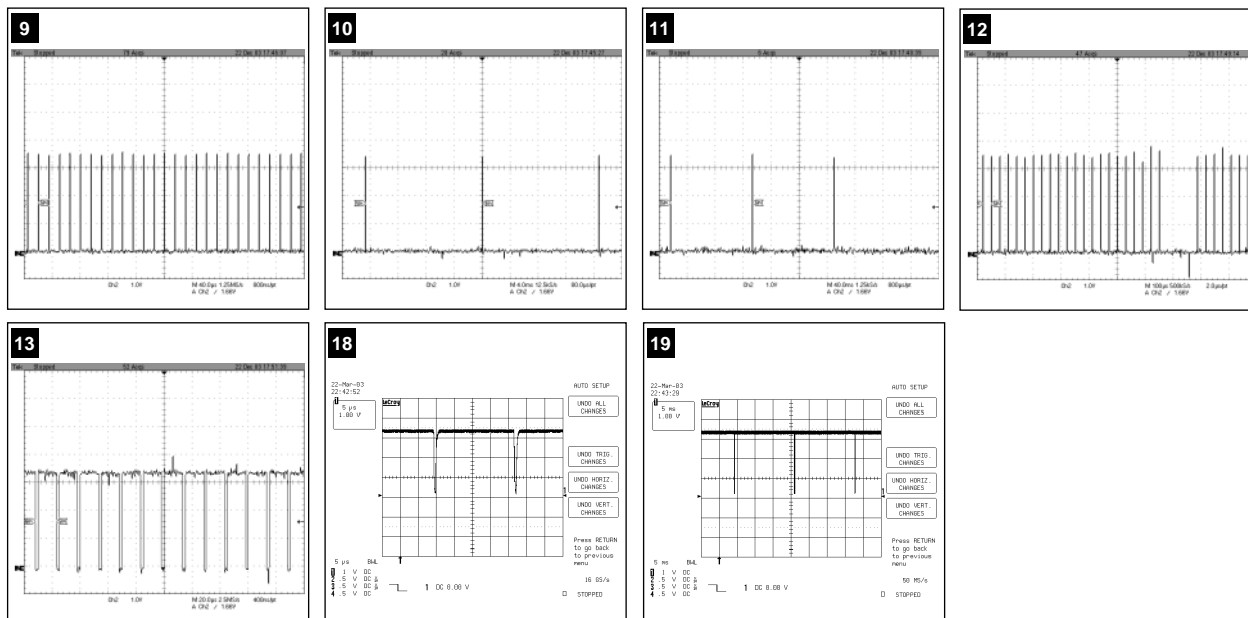
## WAVEFORMS



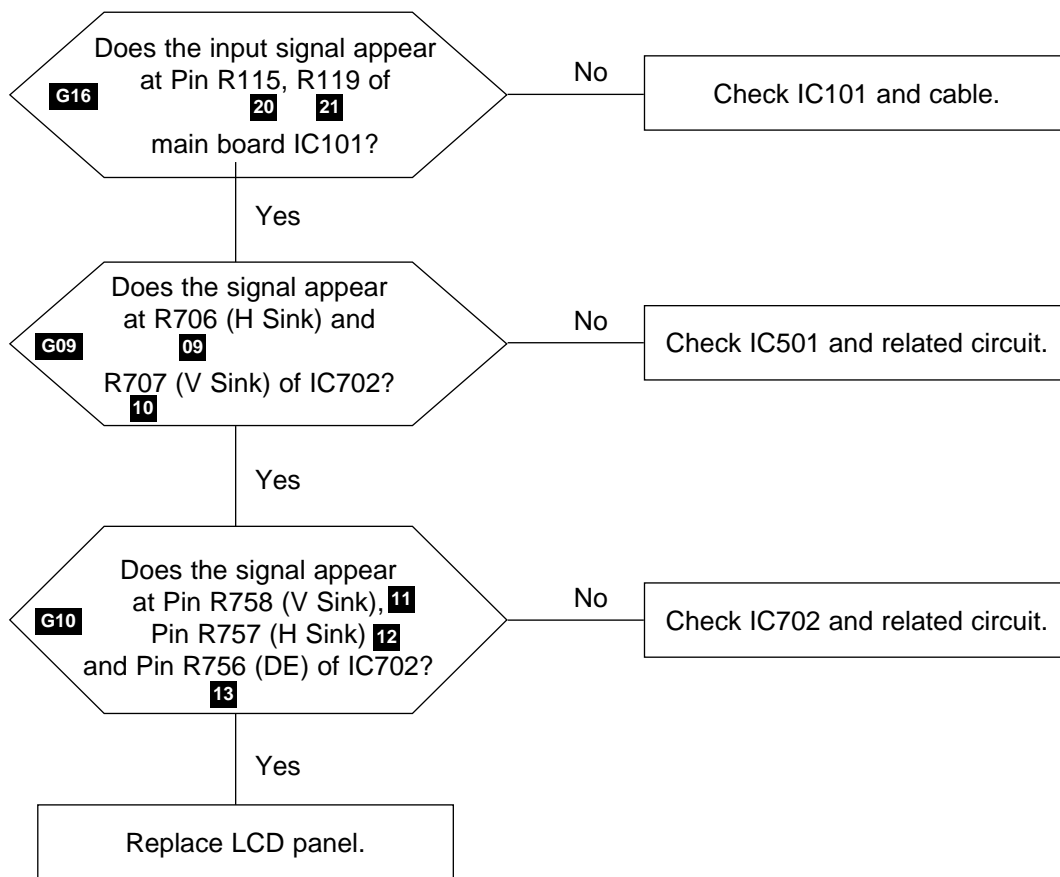
## 5-5 No Screen (PC Signal [Along])



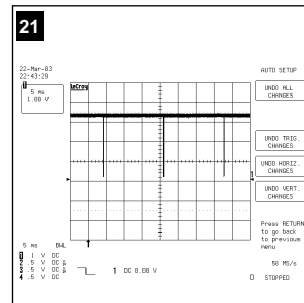
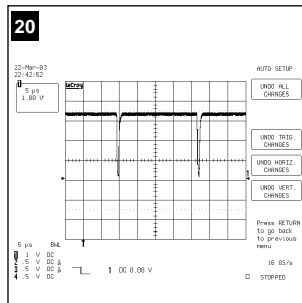
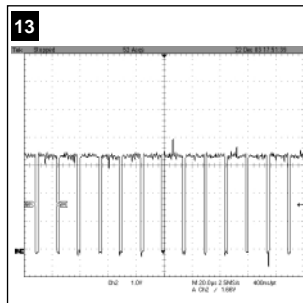
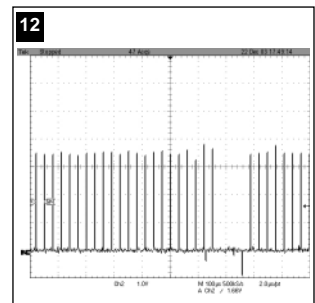
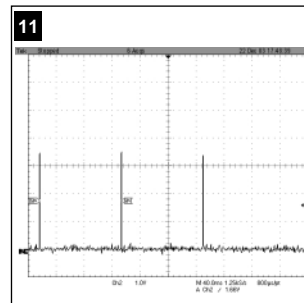
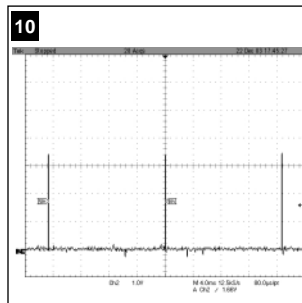
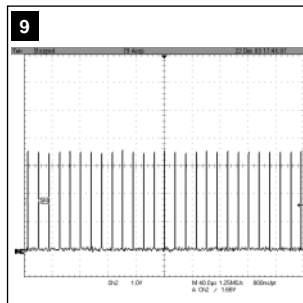
## WAVEFORMS



## 5-6 No Screen (PC Signal [Digital])



## WAVEFORMS





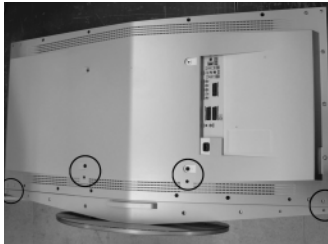
## 3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the LW46G15W LCD TV.

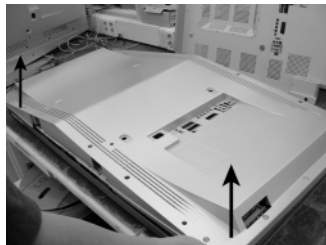
**⚠ WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.**

### 3-1 Disassembly

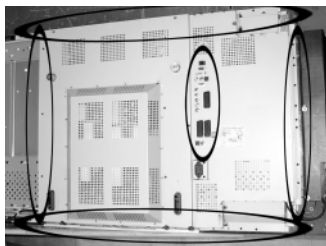
**⚠ Cautions :** 1. Disconnect the monitor from the power source before disassembly.  
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.



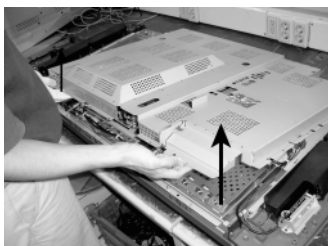
1. Place SET face down on cushioned table. Remove 6 screws from grip on the stand and lift up the stand.



2. Remove 22 screws from the rear cover and lift up the rear cover.



3. Remove 3 screws from the COVER BOTTOM.

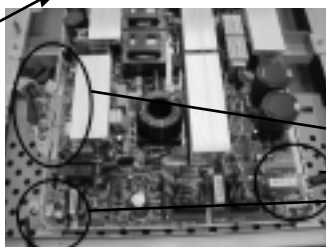
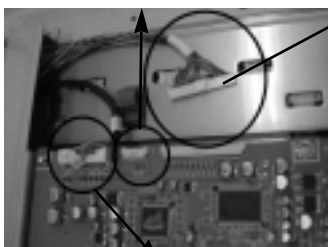


4. Remove 23 screws and 4 HEXA screws from the SHIELD.

→ Speck Cable (left)  
→ Speck Cable (right)  
→ SIDE A/V Cable  
→ FUNCTION Cable  
→ STAND BY Cable

T.CON Control Cable

LVDS Cable

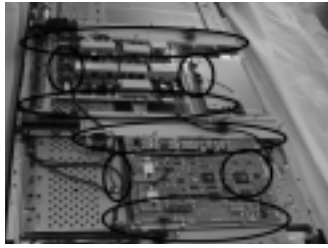


5. Lift up the shield and disconnect speaker cable, function cable and power cable from the board.

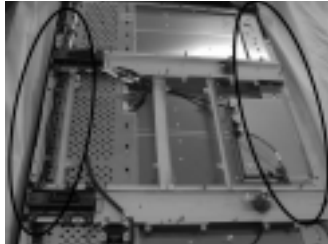
→ Inverter Power Cable

MAIN Power Cable

### 3 Disassembly and Reassembly



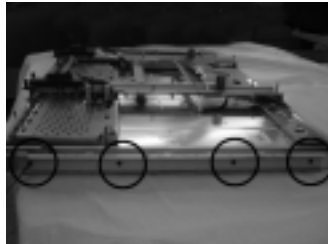
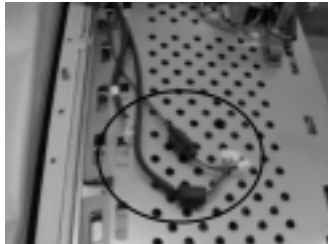
6. Remove 14 screws from the MAIN board, power and lift up the board.



7. Remove 14 screws from the BRKT.  
(see illustrations)



8. Remove 10 screws from the Ass'y chassis.  
(see illustrations)



9. Dissconnect speaker cable, power cable and fuction cable from the shield. Remove 8 screws from the side BRKT.  
(right/left, see illustrations)



10. Remove 6 screws from the Ass's chassis.  
(top/bottom)



11. This picture is panel.

### 3-2 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

# 7 Electrical Parts List

※ You can search for updated part codes through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr/>

## 7-1 Main PCB Parts

Level	Loc. No.	Code No.	Description	Specification	Remarks
0	GA46EO				
1	E22-GA46EO	-	1	SEC,LTA460H1-L01	-
3	BN94-00443U	-	ASSY PCB POWER	GA46KO	SNA
4	0204-002420	CIS	SOLVENT	1M-1000,C3H7OH,96,-,-	SNA
4	0204-002426	CIS	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG,-	SNA
4	0402-000102	D811S	DIODE-BRIDGE	D2SB60,200V,1.5A,SIP-4,ST	SA
4	0402-000250	DM805	DIODE-RECTIFIER	RG4C,1KV,2A,-,-	SA
4	0402-000250	DS805	DIODE-RECTIFIER	RG4C,1KV,2A,-,-	SA
4	0402-000562	DP803	DIODE-RECTIFIER	UF5406,600V,3A,DO-201AD,BK	SA
4	0604-001038	PC801S	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	SA
4	0604-001038	PC802S	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	SA
4	0604-001038	PC803S	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	SA
4	0604-001038	PC804S	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	SA
4	0604-001038	PC811S	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	SA
4	1203-002177	IC811S	IC-PWM CONTROLLER	VIPER12ADIP,DIP,8P,300MIL,PLASTIC,730V,15W,-40to+150C,0.36A,-,ST	SA
4	1203-002828	IC802S	IC-PWM CONTROLLER	4981,DIP,20P,25.4X7.1MM,PLASTIC,0.38.5V,-,40TO+125C,2A,4.975.23V,ST	SA
4	1404-001045	NT811S	THERMISTOR-NTC	4.7ohm,15%,2900,35.0mW,TP	SA
4	1404-001195	NT801S	THERMISTOR-NTC	5.1ohm,15%,2900,27mW/C,BK	SA
4	1404-001195	NT802S	THERMISTOR-NTC	5.1ohm,15%,2900,27mW/C,BK	SA
4	2009-001012	RS807	R-METAL PLATE	0.27OHM,10%,5W,CL,TP,5X14X18MM	SA
4	2009-001146	RP803	R-METAL PLATE	0.05ohm,10%,5W,CL,TP,15x18.5mm	SA
4	2009-001146	RP805	R-METAL PLATE	0.05ohm,10%,5W,CL,TP,15x18.5mm	SA
4	2201-000963	CY802S	C-CERAMIC,DISC	1NF,20%,400V,Y5U,TP,9.5X6MM,10	SA
4	2201-000963	CY803S	C-CERAMIC,DISC	1NF,20%,400V,Y5U,TP,9.5X6MM,10	SA
4	2201-000963	CY804S	C-CERAMIC,DISC	1NF,20%,400V,Y5U,TP,9.5X6MM,10	SA
4	2201-000987	CY814S	C-CERAMIC,DISC	2.2NF,20%,400V,Y5U,BK,12.5X6MM,10	SA
4	2306-000318	CX811S	C-FILM,LEAD-PPF	220NF,20%,250V,BK,-,22.5	SA
4	2306-000318	CX812S	C-FILM,LEAD-PPF	220NF,20%,250V,BK,-,22.5	SA
4	2306-000321	CP825	C-FILM,LEAD-PPF	470NF,20%,275V,BK,31X11X21MM,27.5	SA
4	2401-003024	CI816	C-AL	220uF,20%,200V,WT,BK,22x35,10	SA
4	2401-003024	CI817	C-AL	220uF,20%,200V,WT,BK,22x35,10	SA
4	2401-003092	CP823	C-AL	330uF,20%,450V,GP,BK,35X40,10m	SA
4	2401-003092	CP824	C-AL	330uF,20%,450V,GP,BK,35X40,10m	SA
4	2401-003872	CM818	C-AL	2200UF,20%,25V,LZ,TP,18X20MM,7.5	SA
4	2401-003872	CS816	C-AL	2200UF,20%,25V,LZ,TP,18X20MM,7.5	SA
4	2401-003872	CS817	C-AL	2200UF,20%,25V,LZ,TP,18X20MM,7.5	SA
4	2401-003872	CS818	C-AL	2200UF,20%,25V,LZ,TP,18X20MM,7.5	SA
4	2401-003875	CM819	C-AL	2200UF,20%,16V,LZ,TP,16X20MM,7.5	SA
4	2401-003875	CM820	C-AL	2200UF,20%,16V,LZ,TP,16X20MM,7.5	SA
4	2409-001044	CM829	C-ORGANIC	100UF,+20%,16V,WT,TP,8X10.5,5	SA
4	3501-001263	RL811S	RELAY-POWER	5V,530mW,10000mA,1FormA,7mS,2mS	SA
4	3501-001263	RL812S	RELAY-POWER	5V,530mW,10000mA,1FormA,7mS,2mS	SA
4	3601-001165	FS811S	FUSE-CARTRIDGE	250V,8A,TIME-LAG,CERAMIC,5.2X20mm	SA
4	3711-000024	CNB811	CONNECTOR-HEADER	BOX,3P,1R,2.5mm,STRAIGHT,SN	SA
4	3711-002855	PD811S	CONNECTOR-HEADER	BOX,2P,1R,7.92mm,STRAIGHT,SN	SA
4	3711-004122	CNI801	CONNECTOR-HEADER	BOX,14P,1R,2mm,STRAIGHT,SN	SA
4	3711-004122	CNM801	CONNECTOR-HEADER	BOX,14P,1R,2mm,STRAIGHT,SN	SA
4	3711-004236	CNI803	CONNECTOR-HEADER	BOX,6P,1R,2MM,STRAIGHT,SN	SA
4	3711-004352	CNI802	CONNECTOR-HEADER	BOX,15P,1R,2MM,STRAIGHT,SN	SA
4	AA60-40014A	GT811	PIN-GT,ASSY	AUTO	SNA
5	1203-002139	CIS	IC-POSI.FIXED REG.	378R12,TO-220F,4P,393MIL,PLASTIC,11.7/12.3V,1.5W,-20to+80C,3A,13/29V,ST	SA
5	6003-000333	CIS	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SWRCH1	SNA
5	AA62-30013E	CIS	HEAT SINK-ES	-,A6063 EXTR,-,-,30(21) T0220,	SNA
4	BN26-00006A	T803S	TRANS-MULTI	EER 3019,LCD TV,10PIN,1mH,400V,1A,32uH,5V/12V,6A/2A,0.400ohm,PL-7/PM7,ER-3019,2	SA
4	BN26-00006A	T804S	TRANS-MULTI	EER 3019,LCD TV,10PIN,1mH,400V,1A,32uH,5V/12V,6A/2A,0.400ohm,PL-7/PM7,ER-3019,2	SA
4	BN26-00021A	T801S	TRANS SWITCHING	VS Trans,VD071-01,400V,400V,PL-7,PM7,EER4445,120Hz,1mH,1.5A,723uH,2.5A,120V	SA
4	BN26-00021A	T802S	TRANS SWITCHING	VS Trans,VD071-01,400V,400V,PL-7,PM7,EER4445,120Hz,1mH,1.5A,723uH,2.5A,120V	SA
4	BN26-00022A	T811S	TRANS SWITCHING-ST BY	EE2020,20B07-,400V,PM5,EE2020,60Hz,3mH,0.7Ap-p,11.5uH,0.4A,6.5V	SA
4	BN26-00023A	T805S	TRANS SWITCHING-SOUND	30B018-DM,VD072,400V,PL-7,PM7,EER3019,120Hz,500uH,2.5A,64uH,2.5A,18V	SA
4	BN26-00023A	T806S	TRANS SWITCHING-SOUND	30B018-DM,VD072,400V,PL-7,PM7,EER3019,120Hz,500uH,2.5A,64uH,2.5A,18V	SA
4	BN27-00014A	LM804	COIL CHOKE	10uH,0.02ohm,14.5T,10uH,+/-10%,DR 12*5 C:6.0,14.5T,PF2736,,0.02 ohm,12 ?5,,B	SA
4	BN27-00014A	LS803	COIL CHOKE	10uH,0.02ohm,14.5T,10uH,+/-10%,DR 12*5 C:6.0,14.5T,PF2736,,0.02 ohm,12 ?5,,B	SA
4	BN27-00025A	LP801	COIL CHOKE-PFC	600uH,600uH,7%,MPP(CM400125),42L,PF 2736,0.080 15Y,40 x25 x24,-10°... ~ 70°...,BK	SA
4	BN29-00005A	LX813S	FILTER LINE NOISE-AC LINE FILTER	PDPTV,LS612202,0.063ohm,14mH,38.5*38*32mm,5.5A,250V,BK,300M ohm,-25 to +120	SA
4	BN29-00005A	LX816S	FILTER LINE NOISE-AC LINE FILTER	PDPTV,LS612202,0.063ohm,14mH,38.5*38*32mm,5.5A,250V,BK,300M ohm,-25 to +120	SA
4	BN96-00324A	IC803S	ASSY BOARD P	PDB20049A M,CONTROLLER ASS'Y	SA

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	0402-000231	CIS	DIODE-RECTIFIER	FMG-G26S,600V,4A,TO-220F,ST	SA
5	6003-000333	CIS	SCREW-TAPTITE	RH.+,2S,M3,L10,ZPC(YEL),SWRCH1	SNA
5	BP62-00043D	CIS	HEAT SINK-ES	GAIA,A1050S,T3.5,37.0,70	SNA
4	BN97-00208N	-	ASSY AUTO-SUB PCB	GA46KO	SNA
5	0401-000005	DB816	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,TP	SA
5	0401-000005	DI807	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,TP	SA
5	0401-000005	DI809	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,TP	SA
5	0401-000005	DI810	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,TP	SA
5	0401-000005	DP801	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,TP	SA
5	0401-000006	DB812	DIODE-SWITCHING	BAV21,250V,200MA,DO-35,TP	SA
5	0401-000006	DM803	DIODE-SWITCHING	BAV21,250V,200MA,DO-35,TP	SA
5	0401-000006	DM804	DIODE-SWITCHING	BAV21,250V,200MA,DO-35,TP	SA
5	0401-000006	DS803	DIODE-SWITCHING	BAV21,250V,200MA,DO-35,TP	SA
5	0401-000006	DS804	DIODE-SWITCHING	BAV21,250V,200MA,DO-35,TP	SA
5	0402-000132	DB815	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	SA
5	0402-000132	DB818	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	SA
5	0402-000132	DI811	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	SA
5	0402-000222	DM802	DIODE-RECTIFIER	EU1Z,200V,0.25A,DO-41,TP	SA
5	0402-000222	DS802	DIODE-RECTIFIER	EU1Z,200V,0.25A,DO-41,TP	SA
5	0402-000254	DB817	DIODE-RECTIFIER	RGP10J,600V,1A,DO-41,TP	SA
5	0402-000540	DP802	DIODE-RECTIFIER	RU20A,600V,1.5A,-,TP	SA
5	0402-000546	DB813	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0402-000546	DI805	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0402-000546	DI806	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0402-000546	DI808	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0402-000546	DI812	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0402-000546	DI813	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0402-000546	DM801	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0402-000546	DM806	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0402-000546	DP806	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0402-000546	DS801	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	SA
5	0403-000348	ZDI809	DIODE-ZENER	UZ36B,33-39V,500MW,DO-35,TP	SA
5	0403-000510	ZDI808	DIODE-ZENER	MTZJ6.2B,5.96-6.27V,500MW,DO-34,TP	SA
5	0403-000510	ZDP804	DIODE-ZENER	MTZJ6.2B,5.96-6.27V,500MW,DO-34,TP	SA
5	0403-000718	ZDI803	DIODE-ZENER	MTZJ6.8B,6.52-6.79V,500MW,DO-34,10.4-11V	SA
5	0403-001167	ZDB812	DIODE-ZENER	MTZJ30D,29.02-30.51V,500MW,DO-34,TP	SA
5	0403-001211	ZDP801	DIODE-ZENER	MTZJ12B,11.8-12.3V,500MW,DO-34,TP	SA
5	0403-001318	ZDP802	DIODE-ZENER	MTZJ4.3B,4.17-4.43V,500MW,DO-34,TP	SA
5	0403-001325	ZDP803	DIODE-ZENER	MTZJ15C,14.42-15.02V,500MW,DO-34,TP	SA
5	0403-001327	ZDM801	DIODE-ZENER	MTZJ18A,16.22-17.06V,500MW,DO-34,TP	SA
5	0403-001327	ZDP805	DIODE-ZENER	MTZJ18A,16.22-17.06V,500MW,DO-34,TP	SA
5	0403-001327	ZDS801	DIODE-ZENER	MTZJ18A,16.22-17.06V,500MW,DO-34,TP	SA
5	0403-001328	ZDB813	DIODE-ZENER	MTZJ22A,20.15-21.2V,500MW,DO-34,TP	SA
5	0403-001328	ZDI801	DIODE-ZENER	MTZJ22A,20.15-21.2V,500MW,DO-34,TP	SA
5	0403-001328	ZDM802	DIODE-ZENER	MTZJ22A,20.15-21.2V,500MW,DO-34,TP	SA
5	0403-001328	ZDS802	DIODE-ZENER	MTZJ22A,20.15-21.2V,500MW,DO-34,TP	SA
5	0403-001330	ZDI804	DIODE-ZENER	MTZJ30A,26.99-28.39V,500MW,DO-34,TP	SA
5	0403-001330	ZDI805	DIODE-ZENER	MTZJ30A,26.99-28.39V,500MW,DO-34,TP	SA
5	0403-001330	ZDI806	DIODE-ZENER	MTZJ30A,26.99-28.39V,500MW,DO-34,TP	SA
5	0403-001330	ZDI807	DIODE-ZENER	MTZJ30A,26.99-28.39V,500MW,DO-34,TP	SA
5	0404-001056	DB814	DIODE-SCHOTTKY	RK16,60V,1500MA,DO-204AC,TP	SA
5	0404-001207	DP804	DIODE-SCHOTTKY	SB140,40V,1000MA,DO-41,TP	SA
5	0404-001207	DP805	DIODE-SCHOTTKY	SB140,40V,1000MA,DO-41,TP	SA
5	0404-001207	DP809	DIODE-SCHOTTKY	SB140,40V,1000MA,DO-41,TP	SA
5	0406-001007	ZDB814	DIODE-TVS	P6KE180A,171/180/189V,600W,CAS	SA
5	0406-001062	ZDB816	DIODE-TVS	P6KE200A,190/200/210V,600W,CAS	SA
5	0406-001106	ZDB815	DIODE-TVS	P6KE300A,285/-/315V,600W,DO-204AC	SA
5	0501-000010	Q813	TR-SMALL SIGNAL	KSC1008,NPN,800mW,TO-92,TP,120-240	SA
5	0501-000138	QI811	TR-SMALL SIGNAL	2N5401,PNP,625mW,TO-92,TP,60-240	SA
5	0501-000283	QI802	TR-SMALL SIGNAL	KSA539,PNP,400mW,TO-92,TP,120-240	SA
5	0501-000283	QI805	TR-SMALL SIGNAL	KSA539,PNP,400mW,TO-92,TP,120-240	SA
5	0501-000366	QI809	TR-SMALL SIGNAL	KSC2330-Y,NPN,1W,TO-92L,-,70-1	SA
5	0501-000366	QI810	TR-SMALL SIGNAL	KSC2330-Y,NPN,1W,TO-92L,-,70-1	SA
5	0501-000369	QB811	TR-SMALL SIGNAL	KSC2331-Y,NPN,1000mW,TO-92L,TP,120-240	SA
5	0501-000369	QB814	TR-SMALL SIGNAL	KSC2331-Y,NPN,1000mW,TO-92L,TP,120-240	SA
5	0501-000369	QI807	TR-SMALL SIGNAL	KSC2331-Y,NPN,1000mW,TO-92L,TP,120-240	SA
5	0501-000369	QP802	TR-SMALL SIGNAL	KSC2331-Y,NPN,1000mW,TO-92L,TP,120-240	SA
5	0501-000389	QB812	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,TP,120-240	SA
5	0501-000389	QB815	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,TP,120-240	SA
5	0501-000389	QB816	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,TP,120-240	SA
5	0501-000389	QI801	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,TP,120-240	SA
5	0501-000389	QI804	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,TP,120-240	SA
5	0501-000389	QM801	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,TP,120-240	SA
5	0501-000389	QM813	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,TP,120-240	SA
5	0501-000389	QP801	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,TP,120-240	SA
5	0502-001261	QP804	TR-POWER	2SC5826,NPN,1000mW,-,TP,120-270	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	0502-001262	QP803	TR-POWER	2SA2073,PNP,1000mW,-,TP,120-270	SA
5	1203-001217	ZDT801	IC-POSI.ADJUST REG.	431,TO-92,3P,4.58MIL,PLASTIC,2	SA
5	1203-001217	ZDT802	IC-POSI.ADJUST REG.	431,TO-92,3P,4.58MIL,PLASTIC,2	SA
5	1405-000187	VX811S	VARISTOR	750V,1250A,12.5x7mm,TP	SA
5	2001-000016	RI833	R-CARBON(S)	10HM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000019	RB819	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000019	RI807	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000019	RP818	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000019	RP819	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000019	RP822	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000019	RP823	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000019	RP847	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000020	RI808	R-CARBON(S)	22OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000028	RP809	R-CARBON(S)	100OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000037	RM809	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000037	RS809	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000052	RB826	R-CARBON(S)	3.3KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000052	RI835	R-CARBON(S)	3.3KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000066	RB823	R-CARBON(S)	10KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000066	RB824	R-CARBON(S)	10KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000066	RB825	R-CARBON(S)	10KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000066	RI825	R-CARBON(S)	10KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000085	R820	R-CARBON(S)	100KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000085	RI804	R-CARBON(S)	100KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000085	RI810	R-CARBON(S)	100KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000085	RP821	R-CARBON(S)	100KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000107	RP828	R-CARBON(S)	150KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000109	RI820	R-CARBON(S)	470OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000109	RI823	R-CARBON(S)	470OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000109	RI831	R-CARBON(S)	470OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-000429	RB815	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	SA
5	2001-000591	RB816	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	SA
5	2001-000591	RB817	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	SA
5	2001-000660	RB822	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	SA
5	2001-001049	RP807	R-CARBON(S)	1.3KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001050	RM815	R-CARBON(S)	1.5KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001050	RM819	R-CARBON(S)	1.5KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001050	RS815	R-CARBON(S)	1.5KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001072	RB814	R-CARBON(S)	12OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001072	RB820	R-CARBON(S)	12OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001078	RI837	R-CARBON(S)	15KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001078	RI838	R-CARBON(S)	15KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001078	RP826	R-CARBON(S)	15KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001088	RI824	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001088	RM811	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001088	RM816	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001088	RM827	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001088	RP806	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001088	RS811	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001088	RS816	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001093	RM818	R-CARBON(S)	2.2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001096	RI801	R-CARBON(S)	2.2OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001096	RI805	R-CARBON(S)	2.2OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001097	RM810	R-CARBON(S)	2.4KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001097	RS810	R-CARBON(S)	2.4KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001099	RI818	R-CARBON(S)	2.7KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001099	RP820	R-CARBON(S)	2.7KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001099	RP830	R-CARBON(S)	2.7KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001103	RM804	R-CARBON(S)	20KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001103	RS804	R-CARBON(S)	20KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001105	RI809	R-CARBON(S)	20OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001108	RI830	R-CARBON(S)	22KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001117	RB821	R-CARBON(S)	2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001117	RM805	R-CARBON(S)	2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001117	RS805	R-CARBON(S)	2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001120	RI803	R-CARBON(S)	3.3OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001129	RM806	R-CARBON(S)	330KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001129	RS806	R-CARBON(S)	330KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001131	RM807	R-CARBON(S)	33KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001131	RM817	R-CARBON(S)	33KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001131	RP817	R-CARBON(S)	33KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001131	RS808	R-CARBON(S)	33KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001131	RS817	R-CARBON(S)	33KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001136	RI816	R-CARBON(S)	36OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001142	RI840	R-CARBON(S)	3KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001144	RP808	R-CARBON(S)	4.7KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001146	RI802	R-CARBON(S)	4.7OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2001-001146	RP831	R-CARBON(S)	4.7OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001150	RP816	R-CARBON(S)	470KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001150	RP825	R-CARBON(S)	470KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001152	RI812	R-CARBON(S)	47KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001152	RI836	R-CARBON(S)	47KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001154	RP833	R-CARBON(S)	5.1KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001161	RP810	R-CARBON(S)	560KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001161	RP811	R-CARBON(S)	560KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001163	RP832	R-CARBON(S)	560OHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001179	RP827	R-CARBON(S)	68KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001191	RP814	R-CARBON(S)	820KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001191	RP815	R-CARBON(S)	820KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001194	RM801	R-CARBON(S)	82KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001194	RM802	R-CARBON(S)	82KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001194	RM803	R-CARBON(S)	82KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001194	RM824	R-CARBON(S)	82KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001194	RS801	R-CARBON(S)	82KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001194	RS802	R-CARBON(S)	82KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001194	RS803	R-CARBON(S)	82KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2001-001194	RS822	R-CARBON(S)	82KOHM,5%,1/2W,AA,TP,2.4X6.4MM	SA
5	2002-001010	RX811S	R-COMPOSITION	1.8Mohm,5%,1/2W,AA,TP,3.7x9mm	SA
5	2003-001023	RM820	R-METAL OXIDE(S)	120ohm,5%,2W,AF,TP,3.9x10mm	SA
5	2003-001038	RP802	R-METAL OXIDE(S)	4.7ohm,5%,2W,AF,TP,3.9x10mm	SA
5	2003-001090	RI828	R-METAL OXIDE(S)	10Kohm,5%,2W,AF,TP,4x12mm	SA
5	2003-001090	RI832	R-METAL OXIDE(S)	10Kohm,5%,2W,AF,TP,4x12mm	SA
5	2003-001091	RI806	R-METAL OXIDE(S)	10ohm,5%,2W,AF,TP,4x12mm	SA
5	2003-002007	RI821	R-METAL OXIDE(S)	4.7Kohm,5%,2W,AF,TP,3.9x10mm	SA
5	2003-002007	RI822	R-METAL OXIDE(S)	4.7Kohm,5%,2W,AF,TP,3.9x10mm	SA
5	2003-002071	RM821	R-METAL OXIDE	560ohm,5%,2W,AF,TP,3.9x10mm	SA
5	2003-002071	RS820	R-METAL OXIDE	560ohm,5%,2W,AF,TP,3.9x10mm	SA
5	2003-002186	RM812	R-METAL OXIDE(S)	22Kohm,5%,2W,AG,TP,3.9x12mm	SA
5	2003-002186	RM813	R-METAL OXIDE(S)	22Kohm,5%,2W,AG,TP,3.9x12mm	SA
5	2003-002186	RM814	R-METAL OXIDE(S)	22Kohm,5%,2W,AG,TP,3.9x12mm	SA
5	2003-002186	RS812	R-METAL OXIDE(S)	22Kohm,5%,2W,AG,TP,3.9x12mm	SA
5	2003-002186	RS813	R-METAL OXIDE(S)	22Kohm,5%,2W,AG,TP,3.9x12mm	SA
5	2003-002186	RS814	R-METAL OXIDE(S)	22Kohm,5%,2W,AG,TP,3.9x12mm	SA
5	2003-002239	RB811	R-METAL OXIDE(S)	100KOHM,5%,2W,AF,TP,3.9X10MM	SA
5	2003-002239	RP843	R-METAL OXIDE(S)	100KOHM,5%,2W,AF,TP,3.9X10MM	SA
5	2003-002239	RP844	R-METAL OXIDE(S)	100KOHM,5%,2W,AF,TP,3.9X10MM	SA
5	2003-002239	RP845	R-METAL OXIDE(S)	100KOHM,5%,2W,AF,TP,3.9X10MM	SA
5	2004-000216	RP841	R-METAL	10Kohm,1%,1/4W,AA,TP,2.4x6.4mm	SA
5	2004-000643	RP838	R-METAL	270Kohm,1%,1/4W,AA,TP,2.4x6.4m	SA
5	2004-000643	RP839	R-METAL	270Kohm,1%,1/4W,AA,TP,2.4x6.4m	SA
5	2004-001099	RI826	R-METAL	56Kohm,1%,1/4W,AA,TP,2.4x6.4mm	SA
5	2004-001099	RI827	R-METAL	56Kohm,1%,1/4W,AA,TP,2.4x6.4mm	SA
5	2004-001099	RP824	R-METAL	56Kohm,1%,1/4W,AA,TP,2.4x6.4mm	SA
5	2004-001382	RS818	R-METAL(S)	13Kohm,1%,1/2W,AA,TP,2.4x6.4mm	SA
5	2004-001395	RP837	R-METAL(S)	330Kohm,2%,1/2W,AA,TP,2.4x6.4m	SA
5	2004-001406	RI829	R-METAL(S)	8.2Kohm,1%,1/2W,AA,TP,2.4x6.4m	SA
5	2004-001983	RS819	R-METAL(S)	2.49Kohm,1%,1/2W,AA,TP,2.4x6.4	SA
5	2004-002016	RI839	R-METAL(S)	15Kohm,1%,1/2W,AA,TP,2.5x6.5mm	SA
5	2004-002018	RP834	R-METAL(S)	220Kohm,1%,1/2W,AA,TP,2.4x6.4m	SA
5	2004-002018	RP835	R-METAL(S)	220Kohm,1%,1/2W,AA,TP,2.4x6.4m	SA
5	2004-002018	RP836	R-METAL(S)	220Kohm,1%,1/2W,AA,TP,2.4x6.4m	SA
5	2004-004015	RP840	R-METAL(S)	9.1Kohm,1%,1/2W,AA,TP,2.5x6.5m	SA
5	2008-000205	RB812	R-FUSIBLE(S)	10ohm,5%,1/2W,AF,TP,2.5x6.5mm	SA
5	2008-000206	RB813	R-FUSIBLE(S)	1ohm,5%,1/2W,AF,TP,2.5x6.5mm	SA
5	2008-000206	RM823	R-FUSIBLE(S)	1ohm,5%,1/2W,AF,TP,2.5x6.5mm	SA
5	2008-000206	RS821	R-FUSIBLE(S)	1ohm,5%,1/2W,AF,TP,2.5x6.5mm	SA
5	2008-000299	RP849	R-FUSIBLE(S)	47ohm,5%,2W,AF,TP,3.9x10mm	SA
5	2008-001047	RP846	R-FUSIBLE(S)	68ohm,5%,2W,AF,TP,3.9x10mm	SA
5	2008-001047	RP848	R-FUSIBLE(S)	68ohm,5%,2W,AF,TP,3.9x10mm	SA
5	2009-000022	RM808	R-METAL PLATE	0.47ohm,10%,5W,CL,TP,5x14x18mm	SA
5	2009-000026	RI834	R-METAL PLATE	0.15OHM,10%,5W,CL,TP,5X14X18MM	SA
5	2103-000670	VRM801	VR-SEMI	1Kohm,25%,1/5W,TOP	SA
5	2201-000012	CS812	C-CERAMIC,DISC	0.22NF,10%,1KV,Y5P,TP,6.3X5MM,5	SA
5	2201-000012	CS813	C-CERAMIC,DISC	0.22NF,10%,1KV,Y5P,TP,6.3X5MM,5	SA
5	2201-000014	CB807	C-CERAMIC,DISC	0.33NF,10%,1KV,Y5P,TP,6.3X5MM,5	SA
5	2201-000129	CM810	C-CERAMIC,DISC	0.1NF,10%,1KV,Y5P,TP,7X4MM,5	SA
5	2201-000129	CM811	C-CERAMIC,DISC	0.1NF,10%,1KV,Y5P,TP,7X4MM,5	SA
5	2201-000132	CI805	C-CERAMIC,DISC	0.1NF,10%,500V,Y5P,TP,6.5X3MM,5	SA
5	2201-000132	CI806	C-CERAMIC,DISC	0.1NF,10%,500V,Y5P,TP,6.5X3MM,5	SA
5	2201-000132	CI809	C-CERAMIC,DISC	0.1NF,10%,500V,Y5P,TP,6.5X3MM,5	SA
5	2201-000315	CB811	C-CERAMIC,DISC	2.2NF,+80-20%,250V,Y5U,TP,10X6MM,7.5	SA
5	2201-000315	CB812	C-CERAMIC,DISC	2.2NF,+80-20%,250V,Y5U,TP,10X6MM,7.5	SA
5	2201-000315	CP801	C-CERAMIC,DISC	2.2NF,+80-20%,250V,Y5U,TP,10X6MM,7.5	SA
5	2201-000315	CP802	C-CERAMIC,DISC	2.2NF,+80-20%,250V,Y5U,TP,10X6MM,7.5	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2201-000315	CP803	C-CERAMIC,DISC	2.2NF,+80-20%,250V,Y5U,TP,10X6MM,7.5	SA
5	2201-000315	CP805	C-CERAMIC,DISC	2.2NF,+80-20%,250V,Y5U,TP,10X6MM,7.5	SA
5	2201-000375	CM825	C-CERAMIC,DISC	0.22NF,5%,50V,RH,TP,12.5X3.5MM,5	SA
5	2201-000375	CP812	C-CERAMIC,DISC	0.22NF,5%,50V,RH,TP,12.5X3.5MM,5	SA
5	2201-000375	CS820	C-CERAMIC,DISC	0.22NF,5%,50V,RH,TP,12.5X3.5MM,5	SA
5	2201-000556	CB809	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.5X3MM,5	SA
5	2201-000556	CB810	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.5X3MM,5	SA
5	2201-000556	CM814	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.5X3MM,5	SA
5	2201-000556	CM815	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.5X3MM,5	SA
5	2201-000556	CM816	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.5X3MM,5	SA
5	2201-000556	CM817	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.5X3MM,5	SA
5	2201-000556	CS814	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.5X3MM,5	SA
5	2201-000556	CS815	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.5X3MM,5	SA
5	2201-000930	CI808	C-CERAMIC,DISC	0.22NF,10%,500V,Y5P,TP,5.5X3MM,5	SA
5	2201-000961	CP817	C-CERAMIC,DISC	0.01NF,0.5PF,50V,RH,TP,4X3.5MM,5	SA
5	2201-002026	CY811S	C-CERAMIC,DISC	1NF,20%,400V,Y5P,TP,11X6MM,7.5	SA
5	2201-002026	CY812S	C-CERAMIC,DISC	1NF,20%,400V,Y5P,TP,11X6MM,7.5	SA
5	2201-002026	CY813S	C-CERAMIC,DISC	1NF,20%,400V,Y5P,TP,11X6MM,7.5	SA
5	2202-000263	CM806	C-CERAMIC,MLC-AXIAL	470pF,10%,50V,Y5P,TP,3.5x19,-	SA
5	2202-000263	CM807	C-CERAMIC,MLC-AXIAL	470pF,10%,50V,Y5P,TP,3.5x19,-	SA
5	2202-000263	CS808	C-CERAMIC,MLC-AXIAL	470pF,10%,50V,Y5P,TP,3.5x19,-	SA
5	2202-000263	CS809	C-CERAMIC,MLC-AXIAL	470pF,10%,50V,Y5P,TP,3.5x19,-	SA
5	2301-000192	CM803	C-FILM,LEAD-PEF	1nF,5%,50V,TP,5.3x10mm,5mm	SA
5	2301-000192	CP816	C-FILM,LEAD-PEF	1nF,5%,50V,TP,5.3x10mm,5mm	SA
5	2301-000192	CS806	C-FILM,LEAD-PEF	1nF,5%,50V,TP,5.3x10mm,5mm	SA
5	2301-000224	CM824	C-FILM,LEAD-PEF	22nF,5%,50V,TP,7.4x3.9x13mm,5m	SA
5	2301-000342	CP819	C-FILM,LEAD-PEF	2.2nF,5%,50V,TP,7.4x3.9x13mm,5	SA
5	2301-000356	CB814	C-FILM,LEAD-PEF	47nF,5%,50V,TP,7.5x4.0x6.5,5mm	SA
5	2301-000356	CM808	C-FILM,LEAD-PEF	47nF,5%,50V,TP,7.5x4.0x6.5,5mm	SA
5	2301-000356	CS810	C-FILM,LEAD-PEF	47nF,5%,50V,TP,7.5x4.0x6.5,5mm	SA
5	2301-000445	CM804	C-FILM,LEAD-PEF	4.7nF,5%,50V,TP,5.5x7x3mm,5mm	SA
5	2301-000445	CS805	C-FILM,LEAD-PEF	4.7nF,5%,50V,TP,5.5x7x3mm,5mm	SA
5	2301-001385	CI810	C-FILM,LEAD-PPF	30nF,5%,630V,TP,20x15.5x10.5,7.5	SA
5	2301-001396	CI801	C-FILM,LEAD-PEF	100nF,10%,630V,TP,18x6.5x13mm,7.5	SA
5	2301-001396	CI807	C-FILM,LEAD-PEF	100nF,10%,630V,TP,18x6.5x13mm,7.5	SA
5	2301-001396	CS802	C-FILM,LEAD-PEF	100nF,10%,630V,TP,18x6.5x13mm,7.5	SA
5	2303-000122	CM809	C-FILM,LEAD-PEF	10nF,5%,630V,TP,19x12.5mm,7.5m	SA
5	2303-000122	CP806	C-FILM,LEAD-PEF	10nF,5%,630V,TP,19x12.5mm,7.5m	SA
5	2303-000122	CS811	C-FILM,LEAD-PEF	10nF,5%,630V,TP,19x12.5mm,7.5m	SA
5	2303-000331	CP804	C-FILM,LEAD-PPF	4.7nF,5%,630V,TP,19.5x12x7,7.5	SA
5	2305-000285	CP810	C-FILM,LEAD-PEF	220NF,5%,100V,TP,10.5X5.5X15MM,5	SA
5	2305-000289	CI802	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	SA
5	2305-000289	CI803	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	SA
5	2305-000289	CI804	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	SA
5	2305-000289	CM828	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	SA
5	2305-000289	CP811	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	SA
5	2305-000289	CS822	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	SA
5	2305-000411	CI815	C-FILM,LEAD-PEF	470nF,5%,50V,TP,7.3x4.8x5.5mm,	SA
5	2305-000411	CP815	C-FILM,LEAD-PEF	470nF,5%,50V,TP,7.3x4.8x5.5mm,	SA
5	2305-000411	CS819	C-FILM,LEAD-PEF	470nF,5%,50V,TP,7.3x4.8x5.5mm,	SA
5	2305-000665	CI813	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x5.0mm,	SA
5	2305-000665	CI825	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x5.0mm,	SA
5	2305-000665	CI826	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x5.0mm,	SA
5	2305-000665	CP818	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x5.0mm,	SA
5	2305-000704	CI819	C-FILM,LEAD-PEF	100nF,5%,250V,TP,16.5x10.3x5.7	SA
5	2305-000704	CI820	C-FILM,LEAD-PEF	100nF,5%,250V,TP,16.5x10.3x5.7	SA
5	2305-000704	CI823	C-FILM,LEAD-PEF	100nF,5%,250V,TP,16.5x10.3x5.7	SA
5	2306-000122	CB819	C-FILM,LEAD-PPF	100nF,5%,50V,TP,7.3x4.0x5.0mm,	SA
5	2306-000122	CM812	C-FILM,LEAD-PPF	100nF,5%,50V,TP,7.3x4.0x5.0mm,	SA
5	2306-000122	CM826	C-FILM,LEAD-PPF	100nF,5%,50V,TP,7.3x4.0x5.0mm,	SA
5	2306-000122	CM827	C-FILM,LEAD-PPF	100nF,5%,50V,TP,7.3x4.0x5.0mm,	SA
5	2306-000122	CS821	C-FILM,LEAD-PPF	100nF,5%,50V,TP,7.3x4.0x5.0mm,	SA
5	2401-000480	CM801	C-AL	10uF,20%,50V,GP,TP,5x11,5	SA
5	2401-000480	CM805	C-AL	10uF,20%,50V,GP,TP,5x11,5	SA
5	2401-000480	CS803	C-AL	10uF,20%,50V,GP,TP,5x11,5	SA
5	2401-000493	CB815	C-AL	10uF,20%,50V,LZ,TP,5x11mm,5mm	SA
5	2401-000493	CP822	C-AL	10uF,20%,50V,LZ,TP,5x11mm,5mm	SA
5	2401-000569	CI818	C-AL	1uF,20%,250V,GP,TP,6.3x11,5	SA
5	2401-000603	CP808	C-AL	1UF,20%,50V,GP,TP,5X11,2	SA
5	2401-000603	CP820	C-AL	1UF,20%,50V,GP,TP,5X11,2	SA
5	2401-000957	CB813	C-AL	22UF,20%,450V,GP,BK,16X25MM,7.5	SA
5	2401-000962	CM802	C-AL	22uF,20%,50V,GP,TP,5x11,5	SA
5	2401-000962	CS804	C-AL	22uF,20%,50V,GP,TP,5x11,5	SA
5	2401-000962	CS807	C-AL	22uF,20%,50V,GP,TP,5x11,5	SA
5	2401-001192	CM813	C-AL	33uF,20%,50V,GP,TP,6.3x11,5	SA
5	2401-002300	CB816	C-AL	47uF,20%,50V,GP,TP,6.3x11,5	SA
5	2401-002300	CP809	C-AL	47uF,20%,50V,GP,TP,6.3x11,5	SA

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2401-002619	CP814	C-AL	47uF,20%,25V,GP,TP,5x11,5	SA
5	2401-003028	CI812	C-AL	100uF,20%,25V,WT,TP,6.3x11,5	SA
5	2401-003139	CI824	C-AL	1000uF,20%,25V,WT,TP,10*20,5mm	SA
5	2401-003141	CM822	C-AL	2200uF,20%,25V,WT,TP,13x25,5mm	SA
5	2401-003141	CM823	C-AL	2200uF,20%,25V,WT,TP,13x25,5mm	SA
5	2401-003141	CM830	C-AL	2200uF,20%,25V,WT,TP,13x25,5mm	SA
5	2401-003473	CB817	C-AL	680UF,20%,16V,GP,TP,10X12.5MM,5	SA
5	2901-000299	LB812	FILTER-EMI ON BOARD	-,6A,UL/CSA,-,9x7.5,TP,-	SA
5	3301-000374	LP807	BEAD-AXIAL	,3.5x1.0x9.0mm,3000mA,TP,,,50000ohm	SA
5	3301-000374	LP808	BEAD-AXIAL	,3.5x1.0x9.0mm,3000mA,TP,,,50000ohm	SA
5	3301-000374	LP809	BEAD-AXIAL	,3.5x1.0x9.0mm,3000mA,TP,,,50000ohm	SA
5	3301-000374	LP810	BEAD-AXIAL	,3.5x1.0x9.0mm,3000mA,TP,,,50000ohm	SA
5	3301-001223	LM801	BEAD-AXIAL	62ohm,3.5x0.8x5mm,,TP,,,	SA
5	3301-001223	LS801	BEAD-AXIAL	62ohm,3.5x0.8x5mm,,TP,,,	SA
5	3601-001064	FD801S	FUSE-AXIAL LEAD	125V,4A,FAST-ACTING,GLASS,2.4x7.5mm	SA
5	3601-001064	FD802S	FUSE-AXIAL LEAD	125V,4A,FAST-ACTING,GLASS,2.4x7.5mm	SA
5	3601-001064	FD803S	FUSE-AXIAL LEAD	125V,4A,FAST-ACTING,GLASS,2.4x7.5mm	SA
5	3601-001064	FD811S	FUSE-AXIAL LEAD	125V,4A,FAST-ACTING,GLASS,2.4x7.5mm	SA
5	3602-000114	FS811A	FUSE-HOLDER	-,30mohm	SA
5	3602-000114	FS811B	FUSE-HOLDER	-,30mohm	SA
5	BN41-00385A	MP1.0	PCB MAIN	GAIA,FR4,2,A,1.6T,330*245,1	SNA
5	0402-000549	CIS	DIODE-BRIDGE	RBV606,600V,6A,SIP-4,BK	SA
5	6003-000333	CIS	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SWRCH1	SNA
5	AA60-30003A	CIS	WASHER	T1.5,SBHG-1	SNA
5	BP62-00043A	CIS	HEAT SINK-ES	GAIA,A1050S,T3.5,37.0,90.0	SNA
4	BP96-00421A	IC805S	ASSY HEAT SINK P	BP62-00043C,SCREW,STR-W6853,FB20N50K,FB20N50K,OIL,RUBBER	SNA
5	1203-002827	CIS	IC-PWM CONTROLLER	STR-W6853,TO-220(FORMING),6P,16.9X10MM,PLASTIC,10.4/18.2V,1.5W,-20TO+125C,22A,-,	SA
5	6003-000333	CIS	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SWRCH1	SNA
5	BP62-00043C	CIS	HEAT SINK-ES	GAIA,A1050S,T3.5,37.0,70	SNA
4	BP96-00422A	DS806	ASSY HEAT SINK P	BP62-00043D,SCREW,MBRF10100CT(2),OIL SILICON	SNA
5	0402-001383	CIS	DIODE-RECTIFIER	MBRF10100CT,100V,10A,ITO-220,ST	SA
5	6003-000333	CIS	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SWRCH1	SNA
5	BP62-00043D	CIS	HEAT SINK-ES	GAIA,A1050S,T3.5,37.0,70	SNA
4	BP96-00423A	IC804S	ASSY HEAT SINK P	BP62-00043E,SCREW,STR-W6853,OIL SILICON	SNA
5	1203-002827	CIS	IC-PWM CONTROLLER	STR-W6853,TO-220(FORMING),6P,16.9X10MM,PLASTIC,10.4/18.2V,1.5W,-20TO+125C,22A,-,	SA
5	6003-000333	CIS	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SWRCH1	SNA
5	BP62-00043E	CIS	HEAT SINK-ES	GAIA,A1050S,T3.5,32.0,45	SNA
4	BP96-00426A	DM808	ASSY HEAT SINK P	BP62-00043F,SCREW,MBRF10100CT(4),OIL SILICON	SNA
5	0402-001383	CIS	DIODE-RECTIFIER	MBRF10100CT,100V,10A,ITO-220,ST	SA
5	6003-000333	CIS	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SWRCH1	SNA
5	BP62-00043F	CIS	HEAT SINK-ES	GAIA,A1050S,T3.5,82.0,45	SNA
4	BP96-00433A	IC801S	ASSY HEAT SINK P	BP62-00043B,SCREW,UGF15JT,SPW47N60C3,SPW47B60C3,OIL,RUBBER	SNA
5	0402-001590	CIS	DIODE-RECTIFIER	ISL9R1560P2,600V,15A,TO-220AC,ST	SA
5	1404-001252	CIS	THERMISTOR-PTC	85OHM,25%,16V,30VAC,-,BK	SA
5	6003-000333	CIS	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SWRCH1	SNA
5	BN61-01056A	CIS	BRACKET-IC	SPD-50P4,SECC,T1.0	SNA
5	BP62-00043B	CIS	HEAT SINK-ES	GAIA,A1050S,T3.5,37.0,100	SNA
3	BN94-00535G	-	ASSY PCB MAIN	NEW	SNA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H7OH,96,-,-	SNA
4	0204-002426	CIS2	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG,-	SNA
4	2801-003959	U123	CRYSTAL-UNIT	0.032768MHz,20ppm,28-AAV,12.5pF,35kohm,BK	SA
4	2801-003959	X601	CRYSTAL-UNIT	0.032768MHz,20ppm,28-AAV,12.5pF,35kohm,BK	SA
4	3701-001292	CN102	CONNECTOR-DVI	24P,3R,FEMALE,STRAIGHT,AU10U	SA
4	3701-001294	CN103	CONNECTOR-DSUB	15P,3R,FEMALE,STRAIGHT,AUF	SA
4	3705-001326	CN205	CONNECTOR-COAXIAL	NT(F),ADAPTOR,-,75ohm,-	SA
4	3711-000057	CN104	CONNECTOR-HEADER	BOX,3P,1R,2.5mm,ANGLE,SN	SA
4	3711-000057	CN805	CONNECTOR-HEADER	BOX,3P,1R,2.5mm,ANGLE,SN	SA
4	3711-004121	CN801	CONNECTOR-HEADER	BOX,14P,1R,2mm,ANGLE,SN	SA
4	3711-004909	CN214	CONNECTOR-HEADER	BOX,14P,2R,2MM,ANGLE,SN,BLK	SA
4	3722-000498	CN201	JACK-SCART	21P,-,SN,BLK,NO	SA
4	3722-000498	CN208	JACK-SCART	21P,-,SN,BLK,NO	SA
4	3722-000498	CN212	JACK-SCART	21P,-,SN,BLK,NO	SA
4	3722-001061	CN213	JACK-PHONE	1P,3.6PI,AG,BLK,N	SA
4	3722-001061	CN804	JACK-PHONE	1P,3.6PI,AG,BLK,N	SA
4	3722-001845	CN202	JACK-PIN	3P,8.3MM,AU,GRN/BLU/RED,-	SA
4	3722-001846	CN204	JACK-PIN	2P,8.3MM,AU,WHT/RED,-	SA
4	3722-001846	CN211	JACK-PIN	2P,8.3MM,AU,WHT/RED,-	SA
4	3722-001931	CN601	JACK-PIN	1P,-,AU,BLK,-	SA
4	3722-001931	CN602	JACK-PIN	1P,-,AU,BLK,-	SA
4	AA39-30007A	CIS	CBF IF	-,T,100mm,1365#26	SA
4	BN40-00042A	TN201	TUNER	TMCZ6-405A,PAL-CW,PAL Hyper,38.9MHz,2.5V,75 ohm,75 ohm,DIN / PHONE,ASYMM,5V,TR,3	SA



Level	Loc. No.	Code No.	Description	Specification	Remarks
4	BN40-00051A	TN202	TUNER	TMQ26-404C,PDP,NELSON,PAL,BG,PAL,HYPER,38.9MHZ,2.5V,75 OHM,75 OHM,PHONE,ASYMM,5	SA
4	BN96-00918A	OP101	ASSY BOARD P-OPTICAL	SPD-50P4HD,OPTICAL	SNA
4	BN97-00361A	-	ASSY SMD	NEW	SNA
5	0401-001056	D102	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D113	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D114	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D115	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D116	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D117	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D118	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D119	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D120	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D125	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D126	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D127	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D217	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D218	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D219	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D220	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D268	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D269	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D270	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D271	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D602	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	V101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	V102	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	V103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	V104	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	V105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	V106	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	V107	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	V108	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-000553	D609	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	SA
5	0402-000553	D610	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	SA
5	0402-000553	D611	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	SA
5	0402-000553	D612	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	SA
5	0402-000553	D803	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	SA
5	0402-000553	D804	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	SA
5	0402-000553	D805	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	SA
5	0403-000579	D601	DIODE-ZENER	BZX84C5V1,4.8-5.4V,200MW,SOT-23,TP	SA
5	0403-001052	D101	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D112	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D123	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D124	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D201	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D202	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D203	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D204	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D205	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D206	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D207	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D208	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D210	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D212	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D213	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D214	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D215	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D216	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D221	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D222	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D223	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D224	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D225	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D226	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D227	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D229	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D230	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D231	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D232	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D233	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D234	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D235	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D236	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D237	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	0403-001052	D238	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D239	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D241	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D242	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D243	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D244	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D245	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D246	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D247	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D249	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D250	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D251	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D252	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D253	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D254	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D255	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D256	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D257	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D258	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D259	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D260	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D261	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D262	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D263	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D264	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D265	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D266	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D267	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D272	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D273	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D274	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D275	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D276	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D277	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D278	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D279	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D280	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D283	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D605	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D606	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D607	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D613	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D614	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D615	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D801	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D802	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D819	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D820	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001052	D821	DIODE-ZENER	RD8.2MB,7.7-8.7V,200MW,SOT-23,TP	SA
5	0403-001180	D209	DIODE-ZENER	BZX84C6V2,5.8-6.6V,350MW,SOT-23,TP	SA
5	0403-001180	D281	DIODE-ZENER	BZX84C6V2,5.8-6.6V,350MW,SOT-23,TP	SA
5	0403-001180	D282	DIODE-ZENER	BZX84C6V2,5.8-6.6V,350MW,SOT-23,TP	SA
5	0403-001435	D122	DIODE-ZENER	QZX363C5V6,5.32-5.88V,200MW,SOT-363,TP	SA
5	0403-001435	D128	DIODE-ZENER	QZX363C5V6,5.32-5.88V,200MW,SOT-363,TP	SA
5	0404-001084	D121	DIODE-SCHOTTKY	BAT54A,30V,200MA,SOT-23,TP	SA
5	0404-001084	D129	DIODE-SCHOTTKY	BAT54A,30V,200MA,SOT-23,TP	SA
5	0404-001084	D130	DIODE-SCHOTTKY	BAT54A,30V,200MA,SOT-23,TP	SA
5	0404-001084	D131	DIODE-SCHOTTKY	BAT54A,30V,200MA,SOT-23,TP	SA
5	0404-001084	D132	DIODE-SCHOTTKY	BAT54A,30V,200MA,SOT-23,TP	SA
5	0406-001172	D806	DIODE-TVS	CDS3C30GTH,48V,0W,SMD	SA
5	0406-001172	D807	DIODE-TVS	CDS3C30GTH,48V,0W,SMD	SA
5	0406-001172	D818	DIODE-TVS	CDS3C30GTH,48V,0W,SMD	SA
5	0501-000342	Q603	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	SA
5	0501-000342	Q604	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	SA
5	0501-000342	Q606	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	SA
5	0501-000342	Q610	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	SA
5	0501-000342	Q611	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	SA
5	0501-000344	Q101	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q305	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q306	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q307	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q308	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q309	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q310	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q802	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q803	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q804	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	0501-000344	Q805	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-000344	Q806	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-23,TP,	SA
5	0501-002080	Q301	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q302	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q303	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q304	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q602	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q605	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q801	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q807	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q810	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q811	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q812	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q813	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	Q814	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	U118	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	U119	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	U120	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0501-002080	U121	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	0601-001313	OP801	LED	SMD,GRN,2X1.8MM,565NM,3.16X1.6X1.1MM	SA
5	0601-001313	OP802	LED	SMD,GRN,2X1.8MM,565NM,3.16X1.6X1.1MM	SA
5	0801-000703	IC632	IC-CMOS LOGIC	74HC126,BUFFER,SOP,14,150MIL,QUAD,TP,2.0/6.0V	SA
5	0801-002267	IC405	IC-CMOS LOGIC	74LVC14,-,SOIC,14P,150MIL,-,TP,-,-,3.6V,-40TO+85C,-,5.5V,-,-,24MA	SA
5	0801-002617	IC626	IC-CMOS LOGIC	7S08,2-INPUT AND GATE,SOT-23,5P,63MIL,SINGLE,TP,PLASTIC,3-STATE,-,0V,-40to+85CC,	SA
5	0801-002617	IC630	IC-CMOS LOGIC	7S08,2-INPUT AND GATE,SOT-23,5P,63MIL,SINGLE,TP,PLASTIC,3-STATE,-,0V,-40to+85CC,	SA
5	0801-002709	IC602	IC-CMOS LOGIC	74HC373,D FLIP-FLOP,TSSOP,20P,173MIL,OCTAL,TP,PLASTIC,3-STATE,-,0V,-40TO+85C,600	SA
5	0801-002709	IC609	IC-CMOS LOGIC	74HC373,D FLIP-FLOP,TSSOP,20P,173MIL,OCTAL,TP,PLASTIC,3-STATE,-,0V,-40TO+85C,600	SA
5	0803-000117	IC106	IC-TTL	74F14,INVERTER,SOP,14P,150MIL,	SA
5	0803-000117	IC617	IC-TTL	74F14,INVERTER,SOP,14P,150MIL,	SA
5	0803-000122	IC615	IC-TTL	74F125,BUFFER,SOP,14P,150MIL,Q	SA
5	0803-000777	IC604	IC-TTL	74F163,COUNTER,SOP,16P,150MIL,	SA
5	0803-000777	IC607	IC-TTL	74F163,COUNTER,SOP,16P,150MIL,	SA
5	0803-000777	IC611	IC-TTL	74F163,COUNTER,SOP,16P,150MIL,	SA
5	0803-000777	IC614	IC-TTL	74F163,COUNTER,SOP,16P,150MIL,	SA
5	0904-001009	IC205	IC-I/O SUPPORT CHIP	8574A,-,SOP,16P,300MIL,100KHz,	SA
5	0904-001009	IC213	IC-I/O SUPPORT CHIP	8574A,-,SOP,16P,300MIL,100KHz,	SA
5	0909-001032	IC603	IC-REAL TIME CLOCK	PCF8563,-,SOP,8P,4.9X3.9MM,32.768KHZ,TP,CMOS,PLASTIC,3V,300MMV,-40TO+85C,-,-,-	SA
5	1001-001082	IC207	IC-VIDEO SWITCH	BA7657F,-,SOP,24P,300MIL,SINGL	SA
5	1001-001109	IC613	IC-ANALOG SWITCH	FST3125M,BUS SWITCH & CMOS,SOIC,17P,150MIL,QUAD,7V,-40TO+85C,PLASTIC,-,4.0OHM,5.	SA
5	1001-001109	IC618	IC-ANALOG SWITCH	FST3125M,BUS SWITCH & CMOS,SOIC,17P,150MIL,QUAD,7V,-40TO+85C,PLASTIC,-,4.0OHM,5.	SA
5	1001-001177	IC303	IC-VIDEO SWITCH	TEA6425D,VIDEO SWITCH ,SOIC,20P,300MIL,-,8.8V,0TO+70C,PLASTIC,-,-,-,2UA,ST,-	SA
5	1001-001177	IC310	IC-VIDEO SWITCH	TEA6425D,VIDEO SWITCH ,SOIC,20P,300MIL,-,8.8V,0TO+70C,PLASTIC,-,-,-,2UA,ST,-	SA
5	1001-001178	IC214	IC-AUDIO SWITCH	TEA6422D,AUDIO SWITCH ,SOIC,28P,300MIL,-,10.2V,0TO+70C,PLASTIC,-,-,-,10UA,ST,-	SA
5	1001-001178	IC215	IC-AUDIO SWITCH	TEA6422D,AUDIO SWITCH ,SOIC,28P,300MIL,-,10.2V,0TO+70C,PLASTIC,-,-,-,10UA,ST,-	SA
5	1003-001592	IC503	IC-LCD CONTROLLER	GM1601H,PBGA,416P,35x35mm,-,-,TR,PLASTIC,3.15V,0to70C,-,2.4V/GND,-	SA
5	1006-001076	IC309	IC-DRIVER/RECEIVER	232,SOP,16P,300MIL,DUAL,ST,PLA	SA
5	1006-001076	IC810	IC-DRIVER/RECEIVER	232,SOP,16P,300MIL,DUAL,ST,PLA	SA
5	1103-000129	IC105	IC-EEPROM	24C02,256x8,SOP,8P,5x4mm,4.5/5.5V,0to+70C	SA
5	1103-000129	IC109	IC-EEPROM	24C02,256x8,SOP,8P,5x4mm,4.5/5.5V,0to+70C	SA
5	1103-000129	IC110	IC-EEPROM	24C02,256x8,SOP,8P,5x4mm,4.5/5.5V,0to+70C	SA
5	1103-001279	IC605	IC-EEPROM	24C32,4Kx8,SOP,8P,5x4mm,2.5/5.5V,-40to+85C	SA
5	1105-001305	IC306	IC-DRAM	4S641632,1MX16X4BIT,TSSOP,54P,400MIL,8NS,3.3V,10%,PLASTIC,0TO+70C,30MA,CMOS,TP	SA
5	1105-001336	IC706	IC-DRAM	-,512K*32*4Bit,TSSOP,86P,400MIL,6nS,3.3V,10%,0to70C,2mA,-,TP	SA
5	1105-001336	IC707	IC-DRAM	-,512K*32*4Bit,TSSOP,86P,400MIL,6nS,3.3V,10%,0to70C,2mA,-,TP	SA
5	1105-001380	IC501	IC-DRAM	K4D26328F,4x1Mx32Bit,TQFP,100P,14x20mm,5nS,2.5V,5%,0to+85C,80mA,-,TR	SA
5	1106-001476	IC606	IC-SRAM	K6X1008C2D,128Kx8Bit,TSSOP,32P,18.4x8.4mm,55nS,5V,4.5-5.5V,-,40to+85C,15uA,-,TP	SA
5	1201-000166	IC616	IC-OP AMP	LM358,SOP,8P,150MIL,DUAL,100V/MV,PLASTIC,32V,500MMV,0TO+70C,70DB,0.6V/US,5NA,-	SA
5	1201-001495	IC624	IC-AUDIO AMP	7050,SOP,8P,150MIL,DUAL,26DB,PLASTIC,6V,0.25W,-,40DB,-,-,20NA,-	SA
5	1201-001907	IC619	IC-OP AMP	4580,EMP,TP,8P,5X3.9MM,DUAL,110DB,PLASTIC,15V,300MMV,-20TO+75C,110DB,5V/US,5NA,10	SA
5	1201-001907	IC620	IC-OP AMP	4580,EMP,TP,8P,5X3.9MM,DUAL,110DB,PLASTIC,15V,300MMV,-20TO+75C,110DB,5V/US,5NA,10	SA
5	1201-001907	IC621	IC-OP AMP	4580,EMP,TP,8P,5X3.9MM,DUAL,110DB,PLASTIC,15V,300MMV,-20TO+75C,110DB,5V/US,5NA,10	SA
5	1201-001907	IC622	IC-OP AMP	4580,EMP,TP,8P,5X3.9MM,DUAL,110DB,PLASTIC,15V,300MMV,-20TO+75C,110DB,5V/US,5NA,10	SA
5	1201-001907	IC623	IC-OP AMP	4580,EMP,TP,8P,5X3.9MM,DUAL,110DB,PLASTIC,15V,300MMV,-20TO+75C,110DB,5V/US,5NA,10	SA
5	1201-002031	IC625	IC-AUDIO AMP	TPA3001D1,TSSOP,24P,7.8x4.4mm,-,2V,PLASTIC,18V,4.16W,-40to+85C,-41dB,-,1uA,15mA,	SA
5	1201-002031	IC629	IC-AUDIO AMP	TPA3001D1,TSSOP,24P,7.8x4.4mm,-,2V,PLASTIC,18V,4.16W,-40to+85C,-41dB,-,1uA,15mA,	SA
5	1203-001009	IC804	IC-SWITCH REG.	3172,SOP,8P,244MIL,PLASTIC,1.8	SA
5	1203-001109	IC628	IC-VOL. DETECTOR	7045,SOT-89,3P,-,PLASTIC,4,3/4	SA
5	1203-001212	IC103	IC-VOL. DETECTOR	7029,SOT-89,3P,-,PLASTIC,-,500	SA
5	1203-001212	IC104	IC-VOL. DETECTOR	7029,SOT-89,3P,-,PLASTIC,-,500	SA
5	1203-001293	IC108	IC-POSI.FIXED REG.	033,TO-252,3P,6.5MIL,PLASTIC,3	SA
5	1203-001293	IC114	IC-POSI.FIXED REG.	033,TO-252,3P,6.5MIL,PLASTIC,3	SA
5	1203-001293	IC505	IC-POSI.FIXED REG.	033,TO-252,3P,6.5MIL,PLASTIC,3	SA
5	1203-001293	IC708	IC-POSI.FIXED REG.	033,TO-252,3P,6.5MIL,PLASTIC,3	SA
5	1203-001519	IC107	IC-POSI.ADJUST REG.	LM317,SOT223,3P,274 X 256MIL,P	SA
5	1203-001559	IC601	IC-RESET	DS1834A,SOIC,8P,150MIL,PLASTIC,-,-,-40TO+85C,-,-,TP	SA
5	1203-001559	IC612	IC-RESET	DS1834A,SOIC,8P,150MIL,PLASTIC,-,-,-40TO+85C,-,-,TP	SA
5	1203-001816	IC210	IC-POSI.FIXED REG.	78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP	SA

# 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	1203-001816	IC635	IC-POSI.FIXED REG.	78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP	SA
5	1203-001824	IC203	IC-VOL. DETECTOR	7042,SOT-89,3P,-,PLASTIC,4.05V/4.35V,500MW,-30TO+75C,20MA,-,TP	SA
5	1203-002351	IC308	IC-POSI.FIXED REG.	LF25C,DPAK,3P,240MIL,PLASTIC,2.45V/2.55V,-,-40TO+125C,-,2.85V/16V,TP	SA
5	1203-002351	IC504	IC-POSI.FIXED REG.	LF25C,DPAK,3P,240MIL,PLASTIC,2.45V/2.55V,-,-40TO+125C,-,2.85V/16V,TP	SA
5	1203-002351	IC709	IC-POSI.FIXED REG.	LF25C,DPAK,3P,240MIL,PLASTIC,2.45V/2.55V,-,-40TO+125C,-,2.85V/16V,TP	SA
5	1203-002387	IC701	IC-POSI.ADJUST REG.	39102,SOP,8P,153MIL,PLASTIC,-,2.5W,-40TO+125C,2.5A,1.203/1.277V,TP	SA
5	1203-002387	IC703	IC-POSI.ADJUST REG.	39102,SOP,8P,153MIL,PLASTIC,-,2.5W,-40TO+125C,2.5A,1.203/1.277V,TP	SA
5	1203-002519	IC212	IC-POSI.FIXED REG.	KIA7809AF,DPAK,3P,240MIL,PLASTIC,8.64/9.36V,12W,-30TO+150C,8MA,-,TP	SA
5	1203-002855	IC201	IC-POSI.FIXED REG.	MC33269DTRK-5.0,DPRK,3P,257MIL,PLASTIC,4.95/5.05V,-,40to+150C,800mA,1.235/1.265V	SA
5	1203-002855	IC211	IC-POSI.FIXED REG.	MC33269DTRK-5.0,DPRK,3P,257MIL,PLASTIC,4.95/5.05V,-,40to+150C,800mA,1.235/1.265V	SA
5	1203-002855	IC636	IC-POSI.FIXED REG.	MC33269DTRK-5.0,DPRK,3P,257MIL,PLASTIC,4.95/5.05V,-,40to+150C,800mA,1.235/1.265V	SA
5	1203-002855	IC805	IC-POSI.FIXED REG.	MC33269DTRK-5.0,DPRK,3P,257MIL,PLASTIC,4.95/5.05V,-,40to+150C,800mA,1.235/1.265V	SA
5	1203-002855	IC811	IC-POSI.FIXED REG.	MC33269DTRK-5.0,DPRK,3P,257MIL,PLASTIC,4.95/5.05V,-,40to+150C,800mA,1.235/1.265V	SA
5	1203-003059	IC808	IC-SWITCH VOL. REG.	MP1583,SOIC,8P,4.9x3.9mm,PLASTIC,1.22/21V,-,40to+85CC,3A,1.194/1.25V,TP	SA
5	1203-003059	IC809	IC-SWITCH VOL. REG.	MP1583,SOIC,8P,4.9x3.9mm,PLASTIC,1.22/21V,-,40to+85CC,3A,1.194/1.25V,TP	SA
5	1204-002105	IC307	IC-DECODER	SDA6001-B12,MQFP,128P,28x28mm,PALSTIC,3.60V,1.5W,0to+70C,TR,TELETEXT DECODER	SA
5	1204-002180	IC627	IC-SOUND PROCESSOR	MSP4410G,QA,C12,500,PQFP,80P,20x14mm,PLASTIC,8.7V,1W,0to+70C,TR,IC-SOUND PROCESS	SA
5	1204-002244	IC702	IC-VIDEO PROCESS	DNIEPRO,BGA,272P,27x27mm,PLASTIC,3.3V,-,0to+70C,TR,IC-VIDEO PROCESS	SA
5	1205-001778	IC102	IC-TRANSMITTER	SI1160CT100,TQFP,100P,551MIL,PLASTIC,4V,1.0W,0to+70C,TR,Digital Transmitter	SA
5	1205-002198	IC101	IC-RECEIVER	SI1169CT100,LQFP,100P,14X14MM,PLASTIC,3.6V,-,0TO+70C,TR,PANELLINK RECEIVER	SA
5	1205-002383	IC115	IC-RECEIVER	SI9993CT100,TQFP,100P,14x14mm,PLASTIC,3.6V,-,0to+70C,TR,IC-RECEIVER	SA
5	1205-002412	IC704	IC-TRANSMITTER	DTC34LM85A,TSSOP,56P,14x6.1mm,PLASTIC,3.3V,1.4W,0to+70C,TP,LVDS TRANSMITTER	SA
5	1205-002412	IC705	IC-TRANSMITTER	DTC34LM85A,TSSOP,56P,14x6.1mm,PLASTIC,3.3V,1.4W,0to+70C,TP,LVDS TRANSMITTER	SA
5	1206-000111	IC806	IC-TIMER	KA555D/T.R,SOP,8P,150MIL,-,18V	SA
5	1206-000111	IC807	IC-TIMER	KA555D/T.R,SOP,8P,150MIL,-,18V	SA
5	2007-000043	R102	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R145	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R165	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R202	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R2101	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R2118	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R2125	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R2143	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R2148	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R2165	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R2166	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R219	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R2200	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R224	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R225	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R227	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R229	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R230	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R240	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R241	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R243	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R252	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R274	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R275	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R277	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R291	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6104	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6117	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6119	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6123	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6134	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6177	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6178	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6202	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6204	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6207	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6209	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6211	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6212	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6213	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6215	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6218	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6223	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R6309	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R682	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R683	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R684	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R696	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R698	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R709	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R712	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA
5	2007-000043	R726	R-CHIP	1Kohm,1%,1/10W,TP,1608	SA

[illegible]

## 7-2 Others

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[illegible]

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000071	R199	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R251	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R254	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R257	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R260	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R264	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R265	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R267	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R308	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R3125	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R3126	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R3127	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R3148	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R3163	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R3205	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R330	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R342	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R362	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R383	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R501	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R502	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R5123	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R513	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R514	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R541	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R544	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R572	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R573	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R574	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R575	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R576	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R577	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R605	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R609	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R610	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R6196	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R6197	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R6198	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R6214	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R6216	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R6217	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R6219	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R6222	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R6245	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R651	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R653	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R701	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R702	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R703	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R704	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R705	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R7191	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R7192	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R7193	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R7194	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R7195	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R7196	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R7197	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R7198	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R7199	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R755	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R756	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R757	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000071	R758	R-CHIP	22ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R1107	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R1108	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R1114	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R1116	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2174	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2177	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2178	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2179	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2180	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2181	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2182	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2183	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2184	R-CHIP	47ohm,5%,1/10W,TP,1608	SA



Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000072	R2186	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2187	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2189	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2190	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2192	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R2193	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R305	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R309	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R3105	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R3120	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R3122	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R3123	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R3124	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R316	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R319	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R324	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R331	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R351	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R353	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R359	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R366	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R592	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R593	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R594	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R595	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R729	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R730	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R733	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R734	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R735	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R736	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R737	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R739	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R740	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000072	R741	R-CHIP	47ohm,5%,1/10W,TP,1608	SA
5	2007-000073	R1104	R-CHIP	91ohm,5%,1/10W,TP,1608	SA
5	2007-000073	R1105	R-CHIP	91ohm,5%,1/10W,TP,1608	SA
5	2007-000073	R1106	R-CHIP	91ohm,5%,1/10W,TP,1608	SA
5	2007-000073	R232	R-CHIP	91ohm,5%,1/10W,TP,1608	SA
5	2007-000073	R233	R-CHIP	91ohm,5%,1/10W,TP,1608	SA
5	2007-000073	R234	R-CHIP	91ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R1101	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R1133	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R116	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R117	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R118	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R120	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R129	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R131	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R142	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R143	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R144	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R180	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R181	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R182	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R183	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R196	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R201	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2109	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2110	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2111	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2112	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2120	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2121	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2122	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2123	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2124	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2126	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2127	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2128	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2129	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2130	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2146	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2149	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2167	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2169	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R2170	R-CHIP	100ohm,5%,1/10W,TP,1608	SA

## 7 Electrical Parts List

[illegible]

[illegible]

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000078	R7225	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R7226	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000080	R133	R-CHIP	2Kohm,5%,1/10W,TP,1608	SA
5	2007-000082	R3180	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	SA
5	2007-000082	R5113	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	SA
5	2007-000082	R516	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	SA
5	2007-000082	R562	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	SA
5	2007-000082	R565	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R2102	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R2153	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R220	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3103	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3108	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3109	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3110	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3111	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3112	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3113	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3143	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3144	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3145	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R3154	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R307	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R329	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R341	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R361	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R7209	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R7210	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R7211	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R7212	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R7213	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R7214	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R7215	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R7216	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000091	R7217	R-CHIP	12Kohm,5%,1/10W,TP,1608	SA
5	2007-000092	R1111	R-CHIP	15Kohm,5%,1/10W,TP,1608	SA
5	2007-000092	R1112	R-CHIP	15Kohm,5%,1/10W,TP,1608	SA
5	2007-000092	R1118	R-CHIP	15Kohm,5%,1/10W,TP,1608	SA
5	2007-000092	R1119	R-CHIP	15Kohm,5%,1/10W,TP,1608	SA
5	2007-000092	R1128	R-CHIP	15Kohm,5%,1/10W,TP,1608	SA
5	2007-000092	R1129	R-CHIP	15Kohm,5%,1/10W,TP,1608	SA
5	2007-000092	R6144	R-CHIP	15Kohm,5%,1/10W,TP,1608	SA
5	2007-000092	R6170	R-CHIP	15Kohm,5%,1/10W,TP,1608	SA
5	2007-000093	R6188	R-CHIP	20Kohm,5%,1/10W,TP,1608	SA
5	2007-000093	R6189	R-CHIP	20Kohm,5%,1/10W,TP,1608	SA
5	2007-000093	R840	R-CHIP	20Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R318	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R334	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R348	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R381	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R7200	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R7201	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R7202	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R7203	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R7204	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R7205	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R7206	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R7207	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R7208	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R812	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000094	R827	R-CHIP	22Kohm,5%,1/10W,TP,1608	SA
5	2007-000098	R825	R-CHIP	56Kohm,5%,1/10W,TP,1608	SA
5	2007-000101	R6155	R-CHIP	82Kohm,5%,1/10W,TP,1608	SA
5	2007-000101	R6161	R-CHIP	82Kohm,5%,1/10W,TP,1608	SA
5	2007-000101	R801	R-CHIP	82Kohm,5%,1/10W,TP,1608	SA
5	2007-000101	R803	R-CHIP	82Kohm,5%,1/10W,TP,1608	SA
5	2007-000101	R816	R-CHIP	82Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R6156	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R6157	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R6158	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R6162	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R6163	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R6164	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R830	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R835	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000103	R6199	R-CHIP	120Kohm,5%,1/10W,TP,1608	SA
5	2007-000103	R6226	R-CHIP	120Kohm,5%,1/10W,TP,1608	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000107	R2196	R-CHIP	470Kohm,5%,1/10W,TP,1608	SA
5	2007-000107	R2199	R-CHIP	470Kohm,5%,1/10W,TP,1608	SA
5	2007-000107	R271	R-CHIP	470Kohm,5%,1/10W,TP,1608	SA
5	2007-000107	R272	R-CHIP	470Kohm,5%,1/10W,TP,1608	SA
5	2007-000107	R273	R-CHIP	470Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R101	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R103	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1100	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R122	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1223	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1224	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1225	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1522	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1523	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1524	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1525	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1526	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1527	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1528	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R1529	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R164	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R167	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R168	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R184	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R186	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R197	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R3138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R3140	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R3159	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R369	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R372	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R386	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R388	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R389	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R401	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R402	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R403	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R405	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R497	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R498	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R518	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R519	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R520	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R521	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R522	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R523	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R524	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R525	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R526	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R527	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R529	R-CHIP	33oh	

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000309	R114	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R155	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R156	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R157	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R158	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R159	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R160	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R161	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R162	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R190	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R193	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R195	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2131	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2132	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2145	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2151	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2152	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2171	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2173	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2185	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2188	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R2191	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R247	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R263	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R268	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R278	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R279	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R407	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R408	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R451	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R452	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R453	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R454	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R455	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R456	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R457	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R6310	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R661	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R665	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R666	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R668	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R671	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R672	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R675	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000309	R679	R-CHIP	10ohm,5%,1/10W,TP,1608	SA
5	2007-000329	R6167	R-CHIP	11Kohm,5%,1/10W,TP,1608	SA
5	2007-000329	R6168	R-CHIP	11Kohm,5%,1/10W,TP,1608	SA
5	2007-000402	R3141	R-CHIP	150ohm,5%,1/10W,TP,1608	SA
5	2007-000402	R6103	R-CHIP	150ohm,5%,1/10W,TP,1608	SA
5	2007-000458	R6139	R-CHIP	18Kohm,5%,1/10W,TP,1608	SA
5	2007-000458	R6192	R-CHIP	18Kohm,5%,1/10W,TP,1608	SA
5	2007-000458	R6224	R-CHIP	18Kohm,5%,1/10W,TP,1608	SA
5	2007-000608	R1102	R-CHIP	240ohm,5%,1/10W,TP,1608	SA
5	2007-000659	R301	R-CHIP	27ohm,5%,1/10W,TP,1608	SA
5	2007-000659	R303	R-CHIP	27ohm,5%,1/10W,TP,1608	SA
5	2007-000659	R310	R-CHIP	27ohm,5%,1	

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000683	R6141	R-CHIP	3.3Kohm,1%,1/10W,TP,1608	SA
5	2007-000683	R6179	R-CHIP	3.3Kohm,1%,1/10W,TP,1608	SA
5	2007-000683	R6243	R-CHIP	3.3Kohm,1%,1/10W,TP,1608	SA
5	2007-000695	R7189	R-CHIP	3.3ohm,5%,1/10W,TP,1608	SA
5	2007-000695	R7190	R-CHIP	3.3ohm,5%,1/10W,TP,1608	SA
5	2007-000708	R6101	R-CHIP	3.9Kohm,1%,1/10W,TP,1608	SA
5	2007-000708	R6135	R-CHIP	3.9Kohm,1%,1/10W,TP,1608	SA
5	2007-000708	R6185	R-CHIP	3.9Kohm,1%,1/10W,TP,1608	SA
5	2007-000708	R6244	R-CHIP	3.9Kohm,1%,1/10W,TP,1608	SA
5	2007-000799	R3118	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R3121	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R3134	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R323	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R336	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R338	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R356	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R364	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R397	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R399	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000799	R7180	R-CHIP	360ohm,5%,1/10W,TP,1608	SA
5	2007-000821	R1103	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000821	R170	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000821	R512	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000869	R108	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R1109	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R111	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R1110	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R124	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R125	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R126	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R128	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R130	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R132	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R134	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R137	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R138	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R139	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R140	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R141	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R148	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R149	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R150	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R151	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R203	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R204	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R206	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R207	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R208	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R209	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R210	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R211	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R213	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R214	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R2142	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R215	R-CHIP		

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000869	R327	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R339	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R340	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R357	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R373	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R374	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R375	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R376	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R377	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R378	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R379	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R380	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R385	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R5118	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R5119	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R5120	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R5121	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R584	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R585	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6109	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6116	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6118	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6131	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6138	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6140	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6145	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6206	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6210	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R6232	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R699	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R7181	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R7182	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R7183	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R727	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R728	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R751	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R808	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000869	R810	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	SA
5	2007-000882	R6175	R-CHIP	4.7ohm,5%,1/10W,TP,1608	SA
5	2007-000882	R6176	R-CHIP	4.7ohm,5%,1/10W,TP,1608	SA
5	2007-000939	R2176	R-CHIP	47Kohm,1%,1/10W,TP,1608	SA
5	2007-000939	R276	R-CHIP	47Kohm,1%,1/10W,TP,1608	SA
5	2007-000939	R6160	R-CHIP	47Kohm,1%,1/10W,TP,1608	SA
5	2007-000939	R828	R-CHIP	47Kohm,1%,1/10W,TP,1608	SA
5	2007-000962	R6143	R-CHIP	5.1Kohm,1%,1/10W,TP,1608	SA
5	2007-000962	R6180	R-CHIP	5.1Kohm,1%,1/10W,TP,1608	SA
5	2007-000962	R834	R-CHIP	5.1Kohm,1%,1/10W,TP,1608	SA
5	2007-000979	R831	R-CHIP	5.6Kohm,1%,1/10W,TP,1608	SA
5	2007-001002	R123	R-CHIP	510ohm,5%,1/10W,TP,1608	SA
5	2007-001002	R171	R-CHIP	510ohm,5%,1/10W,TP,1608	SA
5	2007-001042	R1115	R-CHIP	56ohm,1%,1/10W,TP,1608	SA
5	2007-001042	R1117	R-CHIP	56ohm,1%,1/10W,TP,1608	SA
5	2007-001042	R1123	R-CHIP	56ohm,1%,1/10W,TP,1608	SA
5	2007-001042	R1126	R-CHIP	56ohm,1%,1/10W,TP,1608	SA
5	2007-001042	R1130	R-CHIP	56ohm,1%,1/10W,TP,1608	SA
5	2007-001042	R1131	R-CHIP	56ohm,1%,1/10W,TP,1608	SA
5	2007-001042	R504	R-CHIP	56ohm,1%,1/10W,TP,1608	SA
5	2007-001042	R507	R-CHIP	56ohm,1%,1/10W,TP,1608	SA
5	2007-001042	R509	R-CHIP	56ohm,1%,1/10W,TP,1608	SA
5	2007-001068	R2113	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	SA
5	2007-001068	R2164	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	SA
5	2007-001068	R239	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	SA
5	2007-001101	R2156	R-CHIP	62ohm,5%,1/10W,TP,1608	SA
5	2007-001101	R280	R-CHIP	62ohm,5%,1/10W,TP,1608	SA
5	2007-001134	R382	R-CHIP	68ohm,5%,1/10W,TP,1608	SA
5	2007-001157	R6142	R-CHIP	750ohm,5%,1/10W,TP,1608	SA
5	2007-001157	R6182	R-CHIP	750ohm,5%,1/10W,TP,1608	SA
5	2007-001164	R189	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R192	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R194	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R2114	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R2115	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R2158	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R2160	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R2161	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R2162	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R2163	R-CHIP	75ohm,1%,1/10W,TP,1608	SA



Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-001164	R2168	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R236	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R237	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R238	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R270	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R282	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R314	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R328	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R332	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R344	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R346	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R371	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R506	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R508	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R510	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R6153	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R6166	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R6171	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R7171	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001167	R3146	R-CHIP	75ohm,5%,1/10W,TP,1608	SA
5	2007-001167	R3147	R-CHIP	75ohm,5%,1/10W,TP,1608	SA
5	2007-001167	R3156	R-CHIP	75ohm,5%,1/10W,TP,1608	SA
5	2007-001167	R3157	R-CHIP	75ohm,5%,1/10W,TP,1608	SA
5	2007-001167	R367	R-CHIP	75ohm,5%,1/10W,TP,1608	SA
5	2007-001175	R6242	R-CHIP	8.2Kohm,1%,1/10W,TP,1608	SA
5	2007-007004	R6193	R-CHIP	12Kohm,1%,1/10W,TP,1608	SA
5	2007-007004	R6225	R-CHIP	12Kohm,1%,1/10W,TP,1608	SA
5	2007-007004	R6241	R-CHIP	12Kohm,1%,1/10W,TP,1608	SA
5	2007-007651	R836	R-CHIP	9.1Kohm,1%,1/10W,TP,1608	SA
5	2007-007733	R302	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R304	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R311	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R3166	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R3167	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R3168	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R3169	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R3170	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R3171	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R3172	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R3173	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R391	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R393	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R395	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R6201	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R6203	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R6227	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R6228	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R7185	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R7186	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007733	R7187	R-CHIP	51ohm,1%,1/10W,TP,1608	SA
5	2007-007850	R503	R-CHIP	249ohm,1%,1/10W,TP,1608	SA
5	2007-007852	R517	R-CHIP	140ohm,1%,1/10W,TP,1608	SA
5	2011-000002	RA101	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA102	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA103	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA104	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA105	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA106	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA107	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA108	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA109	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA110	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA111	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA112	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA113	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA114	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA115	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA116	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA117	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA118	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA119	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA120	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA121	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA122	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA123	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA124	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA
5	2011-000002	RA126	R-NET	22OHM,5%,1/16W,L,CHIP,8P,TP,3216	SA

## 7 Electrical Parts List

[illegible]

[illegible]

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2203-000257	C623	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C642	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C673	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C691	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C692	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C693	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C706	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C707	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C7101	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C7105	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C712	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C713	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C735	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C739	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C762	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C771	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C782	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C783	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C784	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C785	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C786	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C787	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C794	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C795	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C796	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C797	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C798	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C799	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C844	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C865	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C887	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C890	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000357	C651	C-CER,CHIP	0.15NF,5%,50V,C0G,TP,1608	SA
5	2203-000357	C662	C-CER,CHIP	0.15NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C103	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C104	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C210	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C211	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C427	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C428	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C429	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C430	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C533	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C534	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C535	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C701	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C723	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C724	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C726	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000384	C727	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	SA
5	2203-000405	C858	C-CER,CHIP	0.18NF,5%,50V,C0G,TP,1608	SA
5	2203-000405	C877	C-CER,CHIP	0.18NF,5%,50V,C0G,TP,1608	SA
5	2203-000426	C5100	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000440	C1211	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C135	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C153	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C159	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C160	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C169	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C170	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C180	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C6105	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C6129	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C6130	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C6155	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C6156	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C647	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C679	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C680	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C681	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C682	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C694	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C696	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C716	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C718	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C720	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C733	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2203-000440	C751	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C760	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C770	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C773	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C774	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C775	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C834	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000440	C847	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000552	C605	C-CER,CHIP	0.02nF,5%,50V,C0G,TP,1608	SA
5	2203-000604	C301	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C302	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C303	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C305	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C308	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C3109	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C3110	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C312	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C3122	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C313	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C3132	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C3141	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C3142	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C3145	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C3147	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C3149	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C317	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C327	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C330	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C332	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C346	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C348	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C350	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C361	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C367	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C370	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C373	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C380	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C381	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C383	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C384	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C386	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C387	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C389	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C390	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000604	C399	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	SA
5	2203-000626	C512	C-CER,CHIP	0.022nF,5%,50V,C0G,TP,1608	SA
5	2203-000626	C513	C-CER,CHIP	0.022nF,5%,50V,C0G,TP,1608	SA
5	2203-000626	C616	C-CER,CHIP	0.022nF,5%,50V,C0G,TP,1608	SA
5	2203-000626	C617	C-CER,CHIP	0.022nF,5%,50V,C0G,TP,1608	SA
5	2203-000715	C643	C-CER,CHIP	3.3nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000715	C862	C-CER,CHIP	3.3nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000715	C880	C-CER,CHIP	3.3nF,10%,50V,X7R,TP,1608,-	SA
5	2203-000798	C646	C-CER,CHIP	33nF,10%,16V,X7R,TP,1608,-	SA
5	2203-000798	C672	C-CER,CHIP	33nF,10%,16V,X7R,TP,1608,-	SA
5	2203-000815	C3146	C-CER,CHIP	0.033nF,5%,50V,C0G,TP,1608	SA
5	2203-000815	C3148	C-CER,CHIP	0.033nF,5%,50V,C0G,TP,1608	SA
5	2203-000815	C3152	C-CER,CHIP	0.033nF,5%,50V,C0G,TP,1608	SA
5	2203-000815	C3153	C-CER,CHIP	0.033nF,5%,50V,C0G,TP,1608	SA
5	2203-000815	C374	C-CER,CHIP	0.033nF,5%,50V,C0G,TP,1608	SA
5	2203-000815	C375	C-CER,CHIP	0.033nF,5%,50V,C0G,TP,1608	SA
5	2203-000872	C145	C-CER,CHIP	0.003nF,0.25PF,50V,C0G,TP,1608	SA
5	2203-000872	C146	C-CER,CHIP	0.003nF,0.25PF,50V,C0G,TP,1608	SA
5	2203-000872	C147	C-CER,CHIP	0.003nF,0.25PF,50V,C0G,TP,1608	SA
5	2203-000872	C6101	C-CER,CHIP	0.003nF,0.25PF,50V,C0G,TP,1608	SA
5	2203-000872	C699	C-CER,CHIP	0.003nF,0.25PF,50V,C0G,TP,1608	SA
5	2203-000888	C650	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,1608	SA
5	2203-000888	C661	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,1608	SA
5	2203-000975	C193	C-CER,CHIP	47nF,10%,25V,X7R,TP,1608,-	SA
5	2203-000998	C219	C-CER,CHIP	0.047nF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C220	C-CER,CHIP	0.047nF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C224	C-CER,CHIP	0.047nF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C239	C-CER,CHIP	0.047nF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C240	C-CER,CHIP	0.047nF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C249	C-CER,CHIP	0.047nF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C250	C-CER,CHIP	0.047nF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C277	C-CER,CHIP	0.047nF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C612	C-CER,CHIP	0.047nF,5%,50V,C0G,TP,1608	SA

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2203-001071	C6141	C-CER,CHIP	0.056NF,5%,50V,C0G,TP,1608	SA
5	2203-001222	C6147	C-CER,CHIP	0.82NF,10%,50V,X7R,TP,1608	SA
5	2203-001222	C6150	C-CER,CHIP	0.82NF,10%,50V,X7R,TP,1608	SA
5	2203-001607	C3144	C-CER,CHIP	0.22nF,5%,50V,NP0,-,1608	SA
5	2203-001607	C6106	C-CER,CHIP	0.22nF,5%,50V,NP0,-,1608	SA
5	2203-001607	C6139	C-CER,CHIP	0.22nF,5%,50V,NP0,-,1608	SA
5	2203-001630	C228	C-CER,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	SA
5	2203-001630	C648	C-CER,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	SA
5	2203-001630	C665	C-CER,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	SA
5	2203-001630	C666	C-CER,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	SA
5	2203-001630	C669	C-CER,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	SA
5	2203-001652	C6100	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	SA
5	2203-001652	C6114	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	SA
5	2203-001652	C6133	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	SA
5	2203-001652	C6144	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	SA
5	2203-001656	C2127	C-CER,CHIP	0.47nF,5%,50V,NP0,TP,1608	SA
5	2203-001656	C2128	C-CER,CHIP	0.47nF,5%,50V,NP0,TP,1608	SA
5	2203-001656	C6140	C-CER,CHIP	0.47nF,5%,50V,NP0,TP,1608	SA
5	2203-001656	C6206	C-CER,CHIP	0.47nF,5%,50V,NP0,TP,1608	SA
5	2203-001656	C626	C-CER,CHIP	0.47nF,5%,50V,NP0,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C107	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C108	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1106	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1107	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1108	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1115	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1116	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C1117	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C120	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C121	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C122	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C123	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C124	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C125	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C126	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C127	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C128	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C130	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C131	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C133	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C134	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C137	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C138	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C139	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C140	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C142	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C144	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C149	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C150	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C152	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C157	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C158	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C161	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C162	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C163	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C164	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C165	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C166	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C167	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C168	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C171	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C172	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C174	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C177	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C179	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C186	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C187	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA

[illegible]

## 7 Electrical Parts List

[illegible]



[illegible]

## 7 Electrical Parts List

[illegible]

[illegible]

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2203-005005	C856	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C857	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C859	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C860	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C867	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C869	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C871	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C874	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C878	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C879	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C883	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C884	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C892	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C894	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C896	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C898	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C899	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005030	C6201	C-CER,CHIP	470nF,+80-20%,50V,Y5V,TP,3216	SA
5	2203-005030	C6202	C-CER,CHIP	470nF,+80-20%,50V,Y5V,TP,3216	SA
5	2203-005030	C6203	C-CER,CHIP	470nF,+80-20%,50V,Y5V,TP,3216	SA
5	2203-005030	C6204	C-CER,CHIP	470nF,+80-20%,50V,Y5V,TP,3216	SA
5	2203-005065	C1112	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C112	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C113	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C1212	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C141	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C185	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C194	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C197	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C298	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C309	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C328	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C347	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C366	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C4106	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C6102	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C6104	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C6134	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C6136	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C6210	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C640	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C675	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C684	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C685	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C809	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C8140	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C8141	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C8142	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C8143	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C8144	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C8145	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C8146	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C8147	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C8148	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C823	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005261	C6149	C-CER,CHIP	1000nF,10%,25V,X7R,-,3216	SA
5	2203-005261	C6170	C-CER,CHIP	1000nF,10%,25V,X7R,-,3216	SA
5	2203-005261	C804	C-CER,CHIP	1000nF,10%,25V,X7R,-,3216	SA
5	2203-005437	C192	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-006170	C2114	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C2115	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C2118	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C2129	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C304	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C336	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C371	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C6112	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C6113	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C6117	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C6143	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C6145	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006170	C6208	C-CER,CHIP	220nF,10%,16V,X7R,TP,1608	SA
5	2203-006336	C8115	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8116	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8117	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8118	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2203-006336	C8119	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8120	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8121	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8122	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8123	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8124	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8125	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8126	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8127	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8128	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8129	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2203-006336	C8130	C-CER,CHIP	10000nF,10%,25V,X5R,TP,3216	SNA
5	2402-000108	C106	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C109	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C111	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C1113	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C115	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C116	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C143	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C155	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C175	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C176	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C178	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C195	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C196	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C198	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2101	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2102	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2103	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2104	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2105	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2107	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2110	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2111	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2112	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2116	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2122	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2123	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C2125	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C227	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C259	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C260	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C263	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C264	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C265	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C266	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C267	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C268	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C269	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C270	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C271	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C272	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C273	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C281	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C288	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C289	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C290	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C292	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C293	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C295	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C296	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C297	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C307	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C310	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C311	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C314	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C316	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C3167	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C326	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C329	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C331	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C334	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C345	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C349	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C362	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C363	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2402-000108	C365	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C368	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C369	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C514	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C515	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C537	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C602	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C606	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C6110	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C6127	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C6137	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C615	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C6153	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C618	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C6209	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C627	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C629	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C633	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C634	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C635	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C670	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C671	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C697	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C698	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C7113	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C715	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C717	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C719	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C8131	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C8132	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C8133	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C8134	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C8135	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C8136	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C8137	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C8138	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000108	C8139	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-000173	C6107	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000173	C6108	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000173	C6109	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000173	C6115	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000173	C6116	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000173	C6119	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000173	C6121	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000173	C6128	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000173	C6131	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000173	C6132	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	SA
5	2402-000209	C132	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	SA
5	2402-000209	C151	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	SA
5	2402-000209	C156	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	SA
5	2402-000209	C173	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	SA
5	2402-000209	C216	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	SA
5	2402-000209	C6146	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	SA
5	2402-000209	C829	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	SA
5	2402-001019	C655	C-AL,SMD	2.2uF,20%,35V,GP,TP,3.3x3.3x5.	SA
5	2402-001019	C7119	C-AL,SMD	2.2uF,20%,35V,GP,TP,3.3x3.3x5.	SA
5	2402-001019	C7120	C-AL,SMD	2.2uF,20%,35V,GP,TP,3.3x3.3x5.	SA
5	2402-001081	C6122	C-AL,SMD	100uF,20%,25V,WT,TP,8.3x8.3x10	SA
5	2402-001081	C637	C-AL,SMD	100uF,20%,25V,WT,TP,8.3x8.3x10	SA
5	2402-001081	C690	C-AL,SMD	100uF,20%,25V,WT,TP,8.3x8.3x10	SA
5	2402-001081	C888	C-AL,SMD	100uF,20%,25V,WT,TP,8.3x8.3x10	SA
5	2402-001081	C889	C-AL,SMD	100uF,20%,25V,WT,TP,8.3x8.3x10	SA
5	2402-001086	C206	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C2119	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C2130	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C217	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C231	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C244	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C245	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C257	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C279	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C283	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C285	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C306	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C3169	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C6151	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C656	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2402-001086	C659	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C683	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C687	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C688	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C7104	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C803	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C805	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C806	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C807	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C816	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C817	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C818	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001086	C832	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2402-001145	C221	C-AL,CHIP	47UF,20%,50V,GP,TP,6.3X7.7MM	SA
5	2402-001145	C251	C-AL,CHIP	47UF,20%,50V,GP,TP,6.3X7.7MM	SA
5	2402-001145	C836	C-AL,CHIP	47UF,20%,50V,GP,TP,6.3X7.7MM	SA
5	2402-001145	C837	C-AL,CHIP	47UF,20%,50V,GP,TP,6.3X7.7MM	SA
5	2402-001155	C3112	C-AL,SMD	47UF,20%,16V,WT,TP,6.3X5.2MM	SA
5	2402-001155	C3133	C-AL,SMD	47UF,20%,16V,WT,TP,6.3X5.2MM	SA
5	2402-001155	C3156	C-AL,SMD	47UF,20%,16V,WT,TP,6.3X5.2MM	SA
5	2402-001155	C3165	C-AL,SMD	47UF,20%,16V,WT,TP,6.3X5.2MM	SA
5	2402-001155	C3172	C-AL,SMD	47UF,20%,16V,WT,TP,6.3X5.2MM	SA
5	2402-001155	C663	C-AL,SMD	47UF,20%,16V,WT,TP,6.3X5.2MM	SA
5	2409-001029	C873	C-ORGANIC	120uF,20%,6.3V,WT,TP,10.3x10.3x10.3mm,9	SA
5	2409-001029	C895	C-ORGANIC	120uF,20%,6.3V,WT,TP,10.3x10.3x10.3mm,9	SA
5	2409-001035	C1111	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C118	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C5115	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C5118	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C539	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C547	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C562	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C582	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C588	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C592	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C597	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C599	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C604	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C620	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C703	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C709	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C722	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C725	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C776	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C788	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C843	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001035	C870	C-ORGANIC	10uF,20%,10V,LZ,TP,5.4x4.3x4.3mm,1	SA
5	2409-001051	C1109	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C1118	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C1119	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C119	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C129	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C136	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C148	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C199	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C207	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C208	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C2117	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C2120	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C241	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C468	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C474	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C495	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C496	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C5102	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C549	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C568	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C609	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C657	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C702	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C708	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C7103	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C7107	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C714	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C721	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C728	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C729	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA

## 7 Electrical Parts List

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2409-001051	C736	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C740	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C763	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C772	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C810	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C8101	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C8103	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C8104	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C8106	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C8107	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C8110	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C8112	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C8114	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C812	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C814	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C820	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C826	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C828	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C830	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C835	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C838	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C848	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C853	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C875	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C891	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2409-001051	C893	C-ORGANIC	82UF,20%,6.3V,WT,TP,6.3*5.9MM,2.1	SA
5	2503-001018	CA501	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA502	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA503	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA504	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA505	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA506	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA507	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA508	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA509	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA510	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA511	C-NETWORK	15PFX4,10%,50V,-	SA
5	2503-001018	CA512	C-NETWORK	15PFX4,10%,50V,-	SA
5	2703-000158	L301	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L302	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L303	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L304	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L305	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L306	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L307	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L308	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L310	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L311	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L312	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L313	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L314	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L315	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L316	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L317	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L401	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L402	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L403	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L404	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L405	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L406	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L407	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L408	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L409	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L410	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L411	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L412	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L413	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L414	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L415	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000158	L416	INDUCTOR-SMD	1uH,10%,2012	SA
5	2703-000398	L318	INDUCTOR-SMD	10uH,10%,3225	SA
5	2703-000398	L319	INDUCTOR-SMD	10uH,10%,3225	SA
5	2703-000398	L801	INDUCTOR-SMD	10uH,10%,3225	SA
5	2703-001334	L212	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	L213	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	L501	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	L506	INDUCTOR-SMD	1.5uH,10%,2012	SA



Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2703-001334	L508	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	L509	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	L511	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	L805	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	L816	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001778	L201	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L208	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L210	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L214	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L215	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L216	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L217	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L218	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L219	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L220	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L503	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L504	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L505	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L507	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L510	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L601	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2703-001778	L609	INDUCTOR-SMD	3.3uH,20%,3225	SA
5	2801-003667	X501	CRYSTAL-SMD	14.31818MHz,30ppm,28-AAN,16,50ohm,TP	SA
5	2801-003700	X602	CRYSTAL-SMD	8MHz,30ppm,28-AAN,20pF,80ohm,T	SA
5	2801-003804	X301	CRYSTAL-SMD	24.576MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	2801-003804	X303	CRYSTAL-SMD	24.576MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	2801-003948	X201	CRYSTAL-SMD	12MHz,30ppm,28-AAN,12pF,60ohm,TP	SA
5	2801-003948	X401	CRYSTAL-SMD	12MHz,30ppm,28-AAN,12pF,60ohm,TP	SA
5	2801-003948	X402	CRYSTAL-SMD	12MHz,30ppm,28-AAN,12pF,60ohm,TP	SA
5	2801-004117	X302	CRYSTAL-SMD	6MHz,30PPM,28-ABX,20PF,150OHM,TP	SA
5	2801-004300	X604	CRYSTAL-SMD	18.432MHz,30ppm,28-ABX,13pF,30ohm,TP	SA
5	2901-001114	FT101	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001114	FT201	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001114	FT202	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001114	FT301	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001114	FT601	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001114	FT711	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001114	FT712	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001114	FT714	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001114	FT719	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001114	FT720	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	SA
5	2901-001264	FT102	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT103	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT104	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT105	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT106	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT107	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT108	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT302	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT303	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT304	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT305	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT602	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT603	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT604	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT605	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT606	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	2901-001264	FT607	FILTER-EMI SMD	25V,1A,-,297PF,3.2X1.6X10MM,TP	SA
5	3301-001145	BD223	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD224	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD225	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD226	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD235	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD242	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD706	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD714	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD715	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD717	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD719	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD720	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD723	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD801	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD802	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD803	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD804	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD805	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3301-001145	BD806	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA

## 7 Electrical Parts List

[illegible]

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	3301-001176	BD829	BEAD-SMD	80ohm,2012,400mA,TP,,,0.4ohm	SA
5	3301-001176	BD830	BEAD-SMD	80ohm,2012,400mA,TP,,,0.4ohm	SA
5	3301-001236	BD109	BEAD-SMD	60ohm,1608,200mA,,,,,0.7ohm	SA
5	3301-001236	BD110	BEAD-SMD	60ohm,1608,200mA,,,,,0.7ohm	SA
5	3301-001236	BD111	BEAD-SMD	60ohm,1608,200mA,,,,,0.7ohm	SA
5	3301-001236	BD112	BEAD-SMD	60ohm,1608,200mA,,,,,0.7ohm	SA
5	3301-001324	BD401	BEAD-SMD	15ohm,2012,600mA,TP,,,0.1ohm	SA
5	3301-001324	BD402	BEAD-SMD	15ohm,2012,600mA,TP,,,0.1ohm	SA
5	3301-001324	BD403	BEAD-SMD	15ohm,2012,600mA,TP,,,0.1ohm	SA
5	3301-001324	BD404	BEAD-SMD	15ohm,2012,600mA,TP,,,0.1ohm	SA
5	3301-001324	BD405	BEAD-SMD	15ohm,2012,600mA,TP,,,0.1ohm	SA
5	3301-001324	BD406	BEAD-SMD	15ohm,2012,600mA,TP,,,0.1ohm	SA
5	3301-001324	BD407	BEAD-SMD	15ohm,2012,600mA,TP,,,0.1ohm	SA
5	3301-001324	BD408	BEAD-SMD	15ohm,2012,600mA,TP,,,0.1ohm	SA
5	3301-001404	BD716	BEAD-SMD	30ohm,2012,5000mA,TP,,,0.01ohm	SA
5	3301-001404	BD718	BEAD-SMD	30ohm,2012,5000mA,TP,,,0.01ohm	SA
5	3301-001404	BD721	BEAD-SMD	30ohm,2012,5000mA,TP,,,0.01ohm	SA
5	3301-001404	BD722	BEAD-SMD	30ohm,2012,5000mA,TP,,,0.01ohm	SA
5	3301-001569	BD604	BEAD-SMD	600ohm,2012,1000mA,TP,520ohm/90MHz,730ohm/150MHz,0.1ohm	SA
5	3301-001569	BD605	BEAD-SMD	600ohm,2012,1000mA,TP,520ohm/90MHz,730ohm/150MHz,0.1ohm	SA
5	3301-001569	BD606	BEAD-SMD	600ohm,2012,1000mA,TP,520ohm/90MHz,730ohm/150MHz,0.1ohm	SA
5	3301-001569	BD607	BEAD-SMD	600ohm,2012,1000mA,TP,520ohm/90MHz,730ohm/150MHz,0.1ohm	SA
5	3301-001569	BD608	BEAD-SMD	600ohm,2012,1000mA,TP,520ohm/90MHz,730ohm/150MHz,0.1ohm	SA
5	3301-001569	BD609	BEAD-SMD	600ohm,2012,1000mA,TP,520ohm/90MHz,730ohm/150MHz,0.1ohm	SA
5	3301-001569	BD621	BEAD-SMD	600ohm,2012,1000mA,TP,520ohm/90MHz,730ohm/150MHz,0.1ohm	SA
5	3301-001593	BD105	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	BD106	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	BD107	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	BD108	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	BD121	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	BD122	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	BD123	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	BD124	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L714	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L715	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L717	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L718	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L719	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L720	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L721	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L722	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L725	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001593	L726	BEAD-SMD	200ohm,2.0x1.2x1.3mm,150mA,TP,,,0.25ohm	SA
5	3301-001595	L605	BEAD-SMD	1000ohm,7.0x6.0x4.5mm,4000mA,TP,,,0.012ohm	SA
5	3301-001595	L608	BEAD-SMD	1000ohm,7.0x6.0x4.5mm,4000mA,TP,,,0.012ohm	SA
5	3404-001207	SW601	SWITCH-TACT	12V,50MA,160GF,6.2X6.2,SPST	SA
5	3701-001298	CN101	CONNECTOR-HDMI	19P,2R,FEMALE,SMD-S,AU20U	SA
5	3704-000001	IC608_SOCKET	SOCKET-IC	44P,PLCC,SN,-	SA
5	3711-000862	CN501	CONNECTOR-HEADER	BOX,3P,1R,1.25mm,SMD-A,SN	SNA
5	3711-000862	CN502	CONNECTOR-HEADER	BOX,3P,1R,1.25mm,SMD-A,SN	SNA
5	3711-000922	CN306	CONNECTOR-HEADER	BOX,4P,1R,1.25mm,SMD-A,SN	SA
5	3711-000922	CN307	CONNECTOR-HEADER	BOX,4P,1R,1.25mm,SMD-A,SN	SA
5	3711-000922	CN308	CONNECTOR-HEADER	BOX,4P,1R,1.25mm,SMD-A,SN	SA
5	3711-005291	SP602	CONNECTOR-HEADER	BOX,2P,1R,2MM,SMD-A,SN,WHT	SA
5	3711-005292	SP601	CONNECTOR-HEADER	BOX,3P,1R,2MM,SMD-A,SN,WHT	SA
5	3711-005470	CN702	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	3711-005471	CN802	CONNECTOR-HEADER	BOX,12P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	3711-005499	CN803	CONNECTOR-HEADER	BOX,8P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	BN27-00007A	L802	COIL CHOKE-SMD	DHB0504-100,RB15/17NS,10UH,±10%,-0.08OHM,1.5A,DR5.8X4.5,20.5TS,6.0X5.2X4.5MM-	SA
5	BN27-00008A	L803	COIL CHOKE-SMD	SMD12*12*8.5,GH15/17PS,22.0UH,±20%,-0.045OHM MAX,3.0A,DR10X7/SMD12X6.7,16.5TS	SA
5	BN27-00008A	L804	COIL CHOKE-SMD	SMD12*12*8.5,GH15/17PS,22.0UH,±20%,-0.045OHM MAX,3.0A,DR10X7/SMD12X6.7,16.5TS	SA
5	BN27-00017A	L207	COIL CHOKE-SMD	PO5845-330,LT17N2,33uH,10%,0.3ohm,1A,DR5845,35.5TS,6*5.2*4.5,1.5mm,TP	SA
5	BN41-00423E	MP1.2	PCB MAIN	GAIA,6,MP1.2,1.6,320*245	SNA
5	BN97-00421Q	MAIN_MICOM	ASSY MICOM	NEW	SNA
6	1107-001528	IC502	IC-FLASH MEMORY	29DL32,4Mx8/2Mx16Bit,TSOP,48P,18.4x12mm,70nS,2.7/3.6V,-,40to+85C,1uA,-,TR	SA
5	BN97-00421R	M2_MICOM	ASSY MICOM	NEW	SNA
6	1107-001087	IC305	IC-FLASH MEMORY	29LV160,1Mx16/2Mx8,TSOP,48P,18.4x12mm,2.7/3.6V,-40to+85C	SA
5	BP27-00003A	L603	COIL CHOKE-SMD	33uH,HJLN507WX,33uH,20%,0.06ohm,1.5A,19.5T,12*12*8.5,7.0mm,TP,-25- 85,SMD TYPE	SA
5	BP27-00003A	L604	COIL CHOKE-SMD	33uH,HJLN507WX,33uH,20%,0.06ohm,1.5A,19.5T,12*12*8.5,7.0mm,TP,-25- 85,SMD TYPE	SA
5	BP27-00003A	L606	COIL CHOKE-SMD	33uH,HJLN507WX,33uH,20%,0.06ohm,1.5A,19.5T,12*12*8.5,7.0mm,TP,-25- 85,SMD TYPE	SA
5	BP27-00003A	L607	COIL CHOKE-SMD	33uH,HJLN507WX,33uH,20%,0.06ohm,1.5A,19.5T,12*12*8.5,7.0mm,TP,-25- 85,SMD TYPE	SA
5	MD09-00137A	IC202	IC MICOM	P-PCFM-012,P-PCFM-012,32,5V,12MHZ,I/O EXPANDER,8K BYTE,SOP,SOP,12 X 19.9,8,-40° ...	SA
4	BN97-00421P	SUB_MICOM	ASSY MICOM	NEW	SNA
5	0903-001323	IC608	IC-MICROCONTROLLER	S3P863A (PLCC TYPE),384BIT,PLCC,44P,-,12MHZ,ST,-,PLASTIC,5.5V,-,25TO+85C,1040BY	SNA

## 7 Electrical Parts List

### 7-2 Other

Level	Loc. No.	Code No.	Description	Specification	Remarks
2	BN90-00565A	-	ASSY STAND	GA46KON	SNA
3	6002-001290	C/F+STD	SCREW-TAPPING	RH,+,2S,M4,L20,ZPC(BLK)	SNA
3	6003-001323	C/F+STD	SCREW-TAPTITE	BH,+,B,M4,L12,NI PLT,SWRCH18A,-	SNA
3	BN96-01265A	STD	ASSY STAND P-TOP	GAIA 2,ABS V0	SA
4	6001-000139	STD	SCREW-MACHINE	BH,+,M4,L10,ZPC(YEL),SWRCH18A,-,-	SNA
4	6003-001323	STD	SCREW-TAPTITE	BH,+,B,M4,L12,NI PLT,SWRCH18A,-	SNA
4	BN61-00931A	STD	STAND-BAR	DAVINCI 42,AL,DIECASTING,NAT	SNA
4	BN61-00980A	STD	STAND-BASE FRAME	GAIA 46,AL,DIECAST,NAT	SNA
4	BN61-00986A	STD	STAND-CABLE HOLDER	GAIA 46,ABS VO,GR81	SNA
4	BN61-00997A	STD	GUIDE-BRACKET	GAIA 46,SECC,T1.0	SNA
4	BN63-01119A	STD	COVER-STAND FRONT	GAIA 46,ABS VO,GR81	SNA
4	BN63-01120A	STD	COVER-STAND REAR	GAIA 46,ABS VO,GR81	SNA
4	BN96-01303A	STD	ASSY STAND P-BASE	GAIA 2,ABS HB	SA
5	6003-001239	STD_BASE	SCREW-TAPTITE	FH,+,B,M4,L10,ZPC(YEL),SWRCH18A	SA
5	BN61-00134A	STD_BASE	STAND-FOOT,A	APOLLO 40,NEOPRENE ,T1.5	SNA
5	BN61-00135A	STD_BASE	STAND-FOOT,B	APOLLO 40,NEOPRENE ,T1.5	SNA
5	BN61-01241A	STD_BASE	STAND-ACRYL	GAIA 46",ACRYL,T2.5,NAT	SNA
5	BN61-01242A	STD_BASE	STAND-BASE,COVER	GAIA 46",ABS HB,NAT	SNA
5	BN61-01244A	STD_BASE	BRACKET-BASE	GAIA 46",SPC,T3.0	SNA
2	BN90-00651H	-	ASSY COVER FRONT	NEW	SNA
3	6003-001323	C/F+C/R	SCREW-TAPTITE	BH,+,B,M4,L12,NI PLT,SWRCH18A,-	SNA
3	6006-001095	C/F+SPK	SCREW-TAPTITE	WP,BH,+,M4,L12,ZPC(YEL),SWRCH18A	SNA
3	BN96-00958A	C/F	ASSY SPEAKER P	8ohm,2Way 5Speaker,Left,15W,Gaia	SNA
3	BN96-00959A	C/F	ASSY SPEAKER P	8ohm,2Way 5Speaker,Right,15W,Gaia	SNA
3	BN96-00977E	UNIT/C-FRONT	ASSY COVER P-FRONT	GA46EO,ABS V0	SNA
2	BN90-00652H	-	ASSY COVER REAR	NEW	SNA
3	BN96-00978E	C/R	ASSY COVER P-REAR	GA46EO,ABS V0	SNA
2	BN91-00349N	-	ASSY LCD-E22	GA46KO	SNA
3	BN07-00157A	LCD	LCD-PANEL	LTA460H1-L01,Venus,8BIT,1083*627*53.5,16.7M,40,0.17675*0.53025,0-50.5V,PVA	SA
2	BN91-00792N	-	ASSY CHASSIS	NEW	SNA
2	BN91-00793C	-	ASSY SHIELD	NEW	SNA
3	2901-001288	CIS	FILTER-EMI AC LINE	250V,6A,-,-,50x22.5x37.2mm,BK,-	SA
3	6001-000157	BRKT+PAN	SCREW-MACHINE	BH,+,M4,L8,ZPC(YEL),SM20C,-	SNA
3	6003-001010	BRKT+INLET	SCREW-TAPTITE	FH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	6003-001019	AV/PCB+C/F	SCREW-TAPTITE	RH,+,B,M4,L12,ZPC(BLK),SWRCH18	SNA
3	6003-001019	B/BOT+C/F	SCREW-TAPTITE	RH,+,B,M4,L12,ZPC(BLK),SWRCH18	SNA
3	6003-001019	B/TOP+C/F	SCREW-TAPTITE	RH,+,B,M4,L12,ZPC(BLK),SWRCH18	SNA
3	6003-001019	BRKT/SIDE+C/F	SCREW-TAPTITE	RH,+,B,M4,L12,ZPC(BLK),SWRCH18	SNA
3	6003-001019	C/BOT+BRKT	SCREW-TAPTITE	RH,+,B,M4,L12,ZPC(BLK),SWRCH18	SNA
3	6003-001019	MAIN/B_GUD+B/SIDE	SCREW-TAPTITE	RH,+,B,M4,L12,ZPC(BLK),SWRCH18	SNA
3	6003-001019	SHIELD+BRKT	SCREW-TAPTITE	RH,+,B,M4,L12,ZPC(BLK),SWRCH18	SNA
3	6003-001023	AV/PCB+C/AUD	SCREW-TAPTITE	PWH,+,B,M3,L10,ZPC(YEL),SWRCH18A,-	SNA
3	6003-001023	K/FUN+K/GUIDE	SCREW-TAPTITE	PWH,+,B,M3,L10,ZPC(YEL),SWRCH18A,-	SNA
3	6003-001023	KNOB+C/F	SCREW-TAPTITE	PWH,+,B,M3,L10,ZPC(YEL),SWRCH18A,-	SNA
3	6006-000245	G/WIRE+B/MIDDLE	SCREW-MACHINE	WSP,PH,+,M4,L8,ZPC(YEL),SWRCH1	SNA
3	6006-001132	M/PCB+BRKT	SCREW-MACHINE	WSP,PH,+,M3,L8,NI PLT,SWRCH18A	SNA
3	6006-001132	POW/PCB+B/MID	SCREW-MACHINE	WSP,PH,+,M3,L8,NI PLT,SWRCH18A	SNA
3	6046-001007	CIS	STAND OFF	M3,L5,NI PLT,SUM24L,#4-40	SNA
3	6502-000126	CIS	CABLE CLAMP	DATL-600,ID14.5,-,NTR,NYLON66	SA
3	6502-000135	CIS	CABLE CLAMP	DAWS-2NA,ID10,-,NTR,NYLON66	SC
3	6502-001095	CIS	CABLE CLAMP	DAQC-103-1,ID13.6,-,NYLON66,GRAY	SNA
3	BN39-00499A	CIS	LEAD CONNECTOR	GAIA,UL2464#26,UL/CSA,14P,170MM,#26,SMH200-14,PAP-14V-S,BK,2464#26,SJ03-01-627	SA
3	BN39-00501A	CIS	LEAD CONNECTOR	GAIA,UL2464#26,UL/CSA,3P,750MM,#26,SMH250-03,BK,2464#26,SJ03-01-630	SA
3	BN39-00503A	CIS	LEAD CONNECTOR	GAIA,UL2835#28,UL/CSA,6(5)P,310MM,#28,SMH200-06,12507HS-06L,BK,2835#28,SJ03-01-6	SA
3	BN39-00504A	CIS	LEAD CONNECTOR	GAIA,UL2835#28,UL/CSA,14P,450MM,#28,YDH200-14,YDH200-14,BK,2835#28,SJ03-01-569,C	SA
3	BN39-00509A	CIS	LEAD CONNECTOR	GAIA,UL2835#28,UL/CSA,8P,260MM,#28,12507HS-08L,12507HS-08L,BK,2835#28,SJ03-01-63	SA
3	BN39-00510A	CIS	LEAD CONNECTOR	GAIA,UL20276 #30 15PR,UL/CSA,30P,450MM,#30,FI-E30C,12507HS-30L,BK,SJ03-01-632	SA
3	BN39-00511A	CIS	LEAD CONNECTOR	GAIA,UL2464#26,UL/CSA,14P,400MM,#26,SMH200-14,SMH200-14,BK,2464#26,SJ03-01-628	SA
3	BN39-00512A	CIS	LEAD CONNECTOR	GAIA,UL2464#26,UL/CSA,15P,150MM,#26,SMH200-15,SMH200-15,BK,2464#26,SJ03-01-629	SA
3	BN39-00553A	CIS	LEAD CONNECTOR	GAIA,UL2835#28,UL/CSA,12P,1200MM,#28,12505HS-12,12507HS-12L,BK,2835#28,SJ04-01-1	SA
3	BN61-00988A	CIS	BRACKET-SIDE	GAIA 46,SECC,T1.6	SNA
3	BN61-00993A	CIS	BRACKET-GUIDE MAIN-BOTTOM	GAIA 46,SECC,T1.0	SNA
3	BN63-01122A	CIS	COVER-BOTTOM	GAIA 46,ABS VO,GR81,SV-012P	SNA
3	BN96-01093B	CIS	ASSY MISC P-BRKT,FRAME	46" GAIA,SECC,T1.6	SNA

Level	Loc. No.	Code No.	Description	Specification	Remarks
3	BN96-01122B	CIS	ASSY MISC P-SHIELD COVER	GAIA 46,JAPAN,SECC T0.5	SNA
4	AA63-00792A	CIS	GASKET	GAIA2,CONDUCTIVE FABRIC,2.5mm,35mm,50mm,GRAY,45K,Shield Form	SA
4	BN63-01114B	CIS	SHIELD-PCB	GAIA 46,SECC,T0.5,JAPAN	SNA
4	BN63-01283A	CIS	GASKET	GA46KO,CONDUCTIVE FABRIC,5mm,13mm,335mm,GRAY,32k,71TSSK13-5-335-13	SNA
4	BN63-01284A	CIS	GASKET	GA46KO,CONDUCTIVE FABRIC,5mm,13mm,190mm,GRAY,32k,71TSSK13-5-190-13	SNA
4	BN63-01285A	CIS	GASKET	GA46KO,CONDUCTIVE FABRIC,5mm,10mm,55mm,GRAY,32k,71TSSK10-5-55-13	SNA
3	BN96-01314A	CIS	ASSY MISC P-FUNCTION	GAIA 46",FUNCTION	SNA
3	BN96-01315D	CIS	ASSY MISC P-SIDE AV	GA46EO,SIDE-AV	SNA
2	BN92-00933A	-	ASSY P/MATERIAL	GA46KO,DOMESTIC	SNA
3	6902-000426	P/M	BAG PE	HDPE/NITRON,T0.015/T0.5,W1600,L1600,TRP,28,23-REMARK	SNA
3	AA61-20285A	P/M	HOLDER-BOX	3456,PP,-,-,-,WHT,VO	SNA
3	AA69-02446Y	P/M	PALLET-SET	GAIA46,PAPER,1555,1065,120	SNA
3	AA69-02609A	P/M	BAND-PP	W18,CLEA,1G	SNA
3	BN69-00703A	P/M	CUSHION-SET	GAIA 46,EPP	SNA
2	BN92-01063Y	-	ASSY LABEL	NEW	SNA
3	AA68-00511C	LABEL	LABEL-00,TSXT	J57A,T/P,75,22,SRS	SNA
3	AA68-01070A	LABEL	LABEL-01,MODEL	-,A/P,-,30,20,-,-,-,ALL MODEL,-	SNA
3	BN68-00412F	LABEL	LABEL-01,BARCODE	ALL MODEL,PE,T0.05,60*35,POLYESTER,NO SILK	SNA
3	BN68-00605D	LABEL	LABEL RATING-00	ALL,SS,PC EMBO,T0.178,145*75,GRAY,EDC	SNA
2	BN92-01147Y	-	ASSY ACCESSORY	GA46EO*	SNA
3	BN96-01488P	UNIT/ACCESSORY	ASSY ACCESSORY	GA46EO*	SA
4	3903-000042	ACCESSORY	CBF-POWER CORD	DT,EU,FP3YES,IEC320 C13/C14,250/250V,10-16/10A,BLK,1830MM,-,H05VV-F 3X0.75MM^2,	SA
4	4301-000103	ACCESSORY	BATTERY-ALKALINE	1.5V,750mAh,AAA,10.5x44.5mm,-	SA
4	6801-001014	ACCESSORY	CARD-REGISTRATION	XEU,ENG,MOJO100,L150,W392,-,-	SNA
4	6801-001015	ACCESSORY	CARD-REGISTRATION	XEG,GERMAN,MOJO100,L150,W392,-,-	SNA
4	6801-001016	ACCESSORY	CARD-REGISTRATION	XEF,FRENCH,MOJO100,L150,W392,-,-	SNA
4	6801-001017	ACCESSORY	CARD-REGISTRATION	XEC,SPANISH,MOJO100,L150,W392,-,-	SNA
4	6801-001018	ACCESSORY	CARD-REGISTRATION	XET,ITALY,MOJO100,L150,W392,-,-	SNA
4	6801-001019	ACCESSORY	CARD-REGISTRATION	XEN,DUTCH,MOJO100,L150,W392,-,-	SNA
4	6801-001020	ACCESSORY	CARD-REGISTRATION	XEP,PORTUGAL,MOJO100,L150,W392,-,-	SNA
4	6902-000110	ACCESSORY	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	AA39-00171A	ACCESSORY	CBF SIGNAL	-,1P,3C-2C,2100mm,-,BLK,DIN,-,-,-	SA
4	AA68-00291A	ACCESSORY	MANUAL-S/NETWORK	-,SPANISH,-,B5,W/P100G,-	SNA
4	AA68-01092B	ACCESSORY	MANUAL-S/NETWORK	,ITA,B5,W/P100(G),1,1P	SNA
4	AA68-03242B	0	MANUAL-WARRANTY CARD	TH-ENG,SAFETY GUIDE	SNA
4	BN39-00518A	ACCESSORY	CBF SIGNAL-STEREO	NA32KO,1P,UL2464#26,2000MM,BLACK,STEREO,SJ04-01-001	SA
4	BN59-00447A	ACCESSORY	REMOCON	GAIA,TM77,210*58*21,S3C825AX24,47,SILVER(SVM-3012),EX,PAL,GA46EO	SNA
4	BN68-00514A	ACCESSORY	MANUAL-WARRANTY CARD	PDP/LCD TV,EN,FR,DE, ETC,W/P 120g	SNA
4	BN68-00746A	ACCESSORY	MANUAL USERS	LT46G1B,SAMSUNG,Eng,Europe,Mojo100g,B5,GA46EO	SNA
4	BN69-00350A	ACCESSORY	BOX-00,ACCESSORY	AL29NO/AO,CB SW-1,YEL,KSD-21,60,300,230	SNA
2	BN92-01164C	-	ASSY BOX	GA46EO*	SNA
3	AA68-50502A	BOX	LABEL-00,CONFORMATION	W/P100(G),CTV,ITALY,170x110,BL	SNA
3	AA68-50509A	BOX	LABEL-00,BOX	ALL MODEL,A/P 90(G),250,90	SNA
3	BN69-00711D	BOX	PACKING CASE-00,OUT	GA46EO,D-4 AB,C3,YEL,EUROPE/CIS	SNA
3	BN69-00712A	BOX	PACKING CASE-00,IN	NAPLES 32,D-4 AB,987,297,255,YEL	SNA

Memo

## 2 Product Specifications

### 2-1 Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, (46 -Inch) viewable, 0.537 mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 68 kHz	Vertical : 56 Hz ~ 85 Hz
Display Colors	16,777,216 colors	
Maximum Resolution	Horizontal : 1,920 Pixels Vertical : 1,080 Pixels	
Input Video Signal	Analog, 0.7 Vp-p ± 5% positive at 75 Ω, internally terminated	
Input Sync Signal	Type : Separate H/V sync, Composite H/V, Sync-on-Green Level : TTL level	
AC power voltage & Frequency	AC 120 V, 50/60 Hz	
Power Consumption	350W (max)	
Dimensions Set (W x D x H)	54.1 x 5.7 x 27.1 Inches (1,374 x 144.5 x 688 mm) State of stand disassembled	
Package (W x D x H)	54.1 x 15.8 x 31.1 Inches (1,374 x 402 x 789 mm) State of stand installed	
Weight (Set x Package)	61.2 x 37.3 x 20.9 Inches (1,555 x 947 x 531 mm)	
Weight (Set x Package)	47 kg (103.6 lbs) State of stand installed / 60 kg (132.3 lbs)	
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %	
TV System	Color	PAL/SECAM-L/L'/B/G/I/D/K,NTSC(AV)
	Sound	FM STEREO,NICAM
Antenna Input	75Ω, Coaxial Cable	
Sound Characteristics	<ul style="list-style-type: none"><li>• Max Internal speaker Out Main : Right -&gt; 15 W / Left -&gt; 15 W</li><li>• Bass control Range : -6 ± -12dB ~ +6 ± 12dB</li><li>• Treble control Range : -10 ± -12dB ~ +10 ± 12dB</li><li>• Output frequency : RF -&gt; 50 Hz~15 kHz / A/V -&gt; 20 Hz~20 kHz</li><li>• EQ : -10 ~ +10dB</li></ul>	
•Designs and specifications are subject to change without prior notice.		

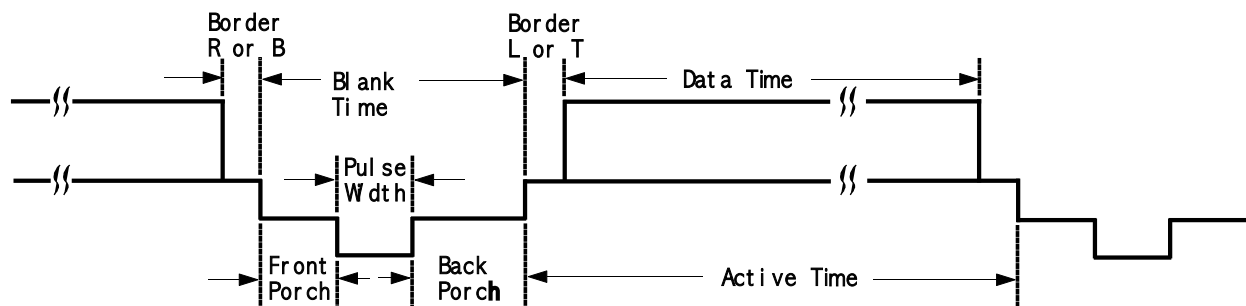
## 2-2 Timing Chart

### 2-2-1 LCD Panel mode

You can have the optimum display in the same mode as the panel pixel.

Table 2-1 Timing chart

Originator Mode Name Resolution (HxV)	VESA 1920/60Hz (Red.Blanking) 1920x1080
HORIZONTAL Frequency Total time Active time Blank time Border (L / R) Data time Front porch Sync. width Back porch Sync. polarity	66.647kHz 15.005 $\mu$ s 13.850 $\mu$ s 1.154 $\mu$ s 0.000 $\mu$ s 13.504 $\mu$ s 0.346 $\mu$ s 0.231 $\mu$ s 0.577 $\mu$ s Positive
VERTICAL Frequency Total time Active time Blank time Border (T / B) Data time Front porch Sync. width Back porch Sync. polarity	59.988Hz 16.670ms 16.205ms 0.465ms 0.000ms 16.205ms 30.009us 75.023us 360.108us Negative
Dot Clock	138.625MHz
Sync. Type	Separate
Scan Type	N/I





## 2-2-2 Supported Modes (1)

Table 2-2 Timing chart

Originator Mode Name Resolution (HxV)	IBM VGA1 640x350	IBM VGA2 720x400	IBM VGA3 640x480	VESA 640/72Hz 640x480	VESA 640/75Hz 640x480	VESA 800/56Hz 800x600	VESA 800/60Hz 800x600
<b>HORIZONTAL</b>							
Frequency	31.469kHz	31.469kHz	31.469kHz	37.861kHz	37.500kHz	35.156kHz	37.879kHz
Total time	31.778 $\mu$ s	31.777 $\mu$ s	31.778 $\mu$ s	26.413 $\mu$ s	26.667 $\mu$ s	28.444 $\mu$ s	26.400 $\mu$ s
Active time	26.058 $\mu$ s	26.058 $\mu$ s	26.058 $\mu$ s	20.825 $\mu$ s	20.317 $\mu$ s	22.222 $\mu$ s	20.000 $\mu$ s
Blank time	5.720 $\mu$ s	5.720 $\mu$ s	5.720 $\mu$ s	5.588 $\mu$ s	6.350 $\mu$ s	6.222 $\mu$ s	6.400 $\mu$ s
Border (L / R)	0.318 $\mu$ s	0.318 $\mu$ s	0.318 $\mu$ s	0.254 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s
Data time	25.422 $\mu$ s	25.422 $\mu$ s	25.422 $\mu$ s	20.317 $\mu$ s	20.317 $\mu$ s	22.222 $\mu$ s	20.000 $\mu$ s
Front porch	0.318 $\mu$ s	0.318 $\mu$ s	0.318 $\mu$ s	0.508 $\mu$ s	0.508 $\mu$ s	0.667 $\mu$ s	1.000 $\mu$ s
Sync. width	3.813 $\mu$ s	3.813 $\mu$ s	3.813 $\mu$ s	1.270 $\mu$ s	2.032 $\mu$ s	2.000 $\mu$ s	3.200 $\mu$ s
Back porch	1.589 $\mu$ s	1.589 $\mu$ s	1.589 $\mu$ s	3.810 $\mu$ s	3.810 $\mu$ s	3.556 $\mu$ s	2.200 $\mu$ s
Sync. polarity	Positive	Negative	Negative	Negative	Negative	Positive or Negative	Positive
<b>VERTICAL</b>							
Frequency	70.086Hz	70.087Hz	59.940Hz	72.809Hz	75.000Hz	56.250Hz	60.317Hz
Total time	14.268ms	14.268ms	16.683ms	13.735ms	13.333ms	17.778ms	16.579ms
Active time	11.504ms	13.155ms	15.761ms	13.100ms	12.800ms	17.067ms	15.840ms
Blank time	2.764ms	1.113ms	0.922ms	0.635ms	0.533ms	0.711ms	0.739ms
Border (T / B)	0.191ms	0.222ms	0.254ms	0.211ms	0.000ms	0.000ms	0.000ms
Data time	11.122ms	12.711ms	15.253ms	12.678ms	12.800ms	17.067ms	15.840ms
Front porch	0.985ms	0.191ms	0.064ms	0.026ms	0.027ms	0.028ms	0.026ms
Sync. width	0.064ms	0.064ms	0.064ms	0.079ms	0.080ms	0.057ms	0.106ms
Back porch	1.716ms	0.858ms	0.794ms	0.528ms	0.427ms	0.626ms	0.607ms
Sync. polarity	Negative	Positive	Negative	Negative	Negative	Positive or Negative	Positive
Dot Clock	25.175MHz	28.322MHz	25.175MHz	31.500MHz	31.500MHz	36.000MHz	40.000MHz
Sync. Type	Separate	Separate	Separate	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I	N/I	N/I	N/I

## 2-2-3 Supported Modes (2)

Table 2-3 Timing chart

Originator Mode Name Resolution (HxV)	VESA 800/72Hz 800x600	VESA 800/75Hz 800x600	VESA 1024/60Hz 1024x768	VESA 1024/70Hz 1024x768	VESA 1024/75Hz 1024x768	VESA 1280/60Hz 1280x1024	VESA 1280/75Hz 1280x1024
<b>HORIZONTAL</b>							
Frequency	48.077kHz	46.875kHz	48.363kHz	56.476kHz	60.023kHz	63.981kHz	79.976kHz
Total time	20.800 $\mu$ s	21.333 $\mu$ s	20.677 $\mu$ s	17.707 $\mu$ s	16.660 $\mu$ s	11.852 $\mu$ s	12.504 $\mu$ s
Active time	16.000 $\mu$ s	16.162 $\mu$ s	15.754 $\mu$ s	13.653 $\mu$ s	13.003 $\mu$ s	9.259 $\mu$ s	9.481 $\mu$ s
Blank time	4.800 $\mu$ s	5.171 $\mu$ s	4.923 $\mu$ s	4.054 $\mu$ s	3.657 $\mu$ s	3.778 $\mu$ s	3.023 $\mu$ s
Border (L / R)	0.000 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s
Data time	16.000 $\mu$ s	16.162 $\mu$ s	15.754 $\mu$ s	13.653 $\mu$ s	13.003 $\mu$ s	9.259 $\mu$ s	9.481 $\mu$ s
Front porch	1.120 $\mu$ s	0.323 $\mu$ s	0.369 $\mu$ s	0.320 $\mu$ s	0.203 $\mu$ s	0.444 $\mu$ s	0.119 $\mu$ s
Sync. width	2.400 $\mu$ s	1.616 $\mu$ s	2.092 $\mu$ s	1.813 $\mu$ s	1.219 $\mu$ s	1.037 $\mu$ s	1.067 $\mu$ s
Back porch	1.280 $\mu$ s	3.232 $\mu$ s	2.462 $\mu$ s	1.920 $\mu$ s	2.235 $\mu$ s	2.296 $\mu$ s	1.837 $\mu$ s
Sync. polarity	Positive	Positive	Negative	Negative	Positive	Positive	Positive
<b>VERTICAL</b>							
Frequency	72.188Hz	75.000Hz	60.004Hz	70.069Hz	75.029Hz	60.020Hz	75.025Hz
Total time	13.853ms	13.333ms	16.666ms	14.272ms	13.328ms	16.005ms	13.329ms
Active time	12.480ms	12.800ms	15.880ms	13.599ms	12.795ms	15.630ms	12.804ms
Blank time	1.373ms	0.533ms	0.786ms	0.673ms	0.533ms	0.375ms	0.525ms
Border (T / B)	0.000ms	0.000ms	0.000ms	0.000ms	0.000ms	0.000ms	0.000ms
Data time	12.480ms	12.800ms	15.880ms	13.599ms	12.795ms	15.630ms	12.804ms
Front porch	0.770ms	0.021ms	0.062ms	0.053ms	0.017ms	0.016ms	0.013ms
Sync. width	0.125ms	0.064ms	0.124ms	0.106ms	0.050ms	0.047ms	0.038ms
Back porch	0.478ms	0.448ms	0.600ms	0.513ms	0.466ms	0.594ms	0.475ms
Sync. polarity	Positive	Positive	Negative	Negative	Positive	Positive	Positive
Dot Clock	50.000MHz	49.500MHz	65.000MHz	75.000MHz	78.750MHz	108.00MHz	135.00MHz
Sync. Type	Separate	Separate	Separate	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I	N/I	N/I	N/I

Table 2-4 Abbreviations

A	Ampere	MV	Megavolt
Ah	Ampere-hour	MW	Megawatt
Å	Angstrom	M	Megohm
dB	Decibel	m	Meter
dBm	Decibel Referenced to One Milliwatt	A	Microampere
C	Degree Celsius	F	Microfarad
F	Degree Fahrenheit	H	Microhenry
K	degree Kelvin	m	Micrometer
F	Farad	s	Microsecond
G	Gauss	W	Microwatt
GHz	Gigahertz	mA	Milliampere
g	Gram	mg	Milligram
H	Henry	mH	Millihenry
Hz	Hertz	ml	Milliliter
h	Hour	mm	Millimeter
ips	Inches Per Second	ms	Millisecond
kWh	Kilowatt-hour	mV	Millivolt
kg	Kilogram	nF	Nanofarad
kHz	Kilohertz		Ohm
k	Kilohm	pF	Picofarad
km	Kilometer	lb	Pound
km/h	Kilometer Per Hour	rpm	Revolutions Per Minute
kV	Kilovolt	rps	Revolutions Per Second
kVA	Kilovolt-ampere	s	Second (Time)
kW	Kilowatt	V	Volt
l	Liter	VA	Volt-ampere
MHz	Megahertz	W	Watt
		Wh	Watt-hour

Table 2-5 Table of Acronyms

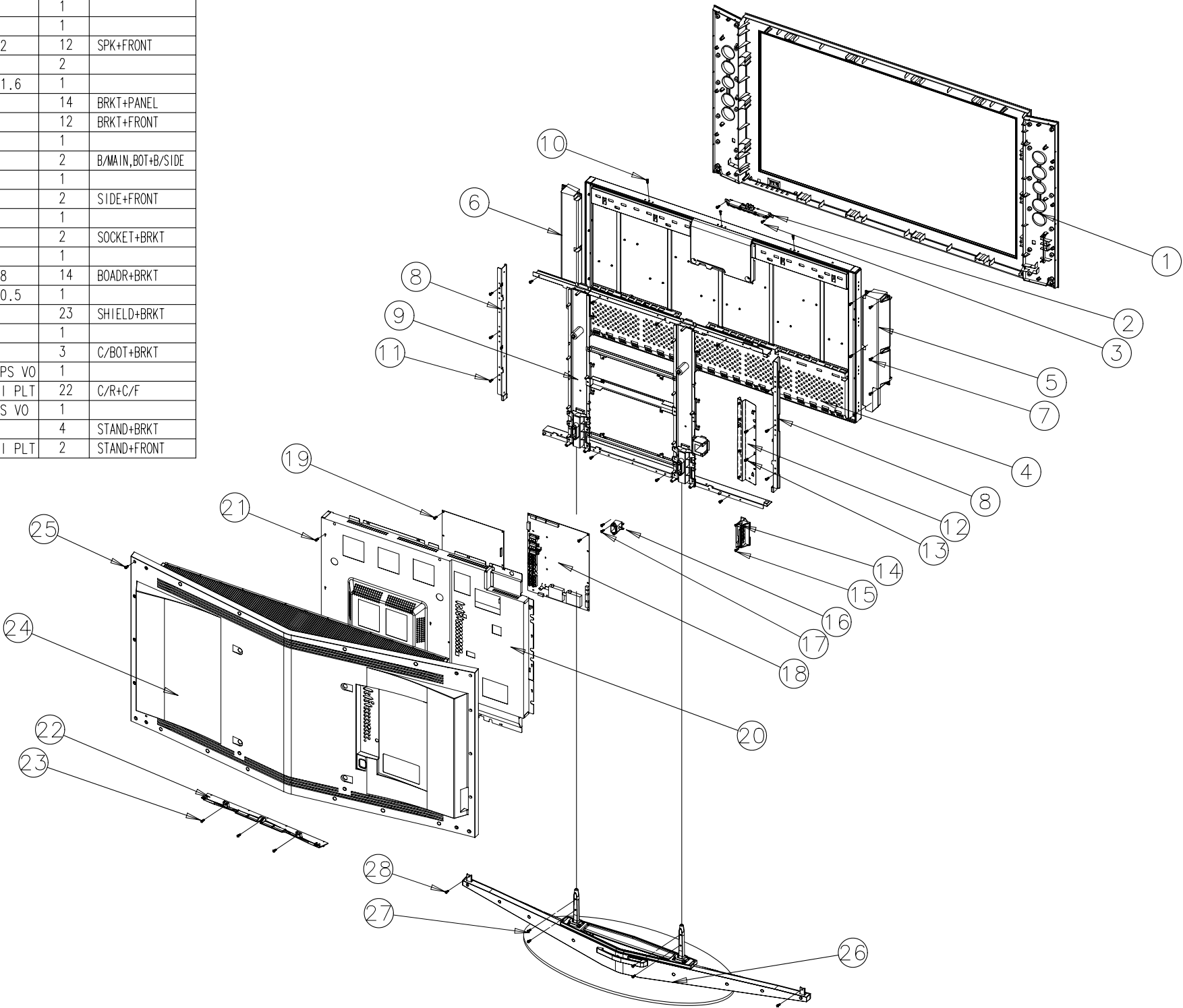
ABL	Automatic Brightness Limiter	I/O	Input/output
AC	Alternating Current	L	Left
ACC	Automatic Chroma Control	L	Low
AF	Audio Frequency	LED	Light Emitting Diode
AFC	Automatic Frequency Control	LF	Low Frequency
AFT	Automatic Fine Tuning	MOSFET	Metal-Oxide-Semiconductor-Field-Effect-Tr
AGC	Automatic Gain Control	MTS	Multi-channel Television Sound
AM	Amplitude Modulation	NAB	National Association of Broadcasters
ANSI	American National Standards Institute	NEC	National Electric Code
APC	Automatic Phase Control	NTSC	National Television Systems Committee
APC	Automatic Picture Control	OSD	On Screen Display
A/V	Audio-Video	PCB	Printed Circuit Board
AVC	Automatic Volume Control	PLL	Phase-Locked Loop
BAL	Balance	PWM	Pulse Width Modulation
BPF	Bandpass Filter	QIF	Quadrature Intermediate Frequency
B-Y	Blue-Y	R	Right
CATV	Community Antenna Television (Cable TV)	RC	Resistor & Capacitor
CB	Citizens Band	RF	Radio Frequency
CCD	Charge Coupled Device	R-Y	Red-Y
CCTV	Closed Circuit Television	SAP	Second Audio Program
Ch	Channel	SAW	Surface Acoustic Wave(Filter)
CRT	Cathode Ray Tube	SIF	Sound Intermediate Frequency
CW	Continuous Wave	SMPS	Switching Mode Power Supply
DC	Direct Current	S/N	Signal/Noise
DVM	Digital Volt Meter	SW	Switch
EIA	Electronics Industries Association	TP	Test Point
ESD	Electrostatic Discharge	TTL	Transistor Transistor Logic
ESD	Electrostatically Sensitive Device	TV	Television
FBP	Feedback Pulse	UHF	Ultra High Frequency
FBT	Flyback Transformer	UL	Underwriters Laboratories
FF	Flip-Flop	UV	Ultraviolet
FM	Frequency Modulation	VCD	Variable-Capacitance Diode
FS	Fail Safe	VCO	Voltage Controlled Oscillator
GND	Ground	VCXO	Voltage Controlled Crystal Oscillator
G-Y	Green-Y	VHF	Very High Frequency
H	High	VIF	Video Intermediate Frequency
HF	High-Frequency	VR	Variable Resistor
HI-FI	High Fidelity	VTR	Video Tape Recorder
IC	Inductance-Capacitance	VTVM	Vacuum Tube Voltmeter
IC	Integrated Circuit	TR	Transistor
IF	Intermediate Frequency		

## Memo

6 Exploded View and Parts List

※ You can search for updated part codes through ITSELF web site.  
URL : <http://itself.sec.samsung.co.kr/>

NO.	DESCRIPTION	CODE NO.	SPECIFICATION	Q'TY	REMARK
1	ASSY COVER-FRONT	BN96-00977E	ABS V0	1	GA46J0
2	ASSY FUNCTION-PCB	BN96-01314A	GAIA 46	1	
3	SCREW-TAPTITE	6003-000010	BWH,M3,L10	2	FUNC+FRONT
4	PANEL	-	46" PANEL	1	
5	ASSY SPEAKER,L	BN96-00958A	GAIA, LEFT	1	
6	ASSY SPEAKER,R	BN96-00959A	GAIA,RIGHT	1	
7	SCREW-TAPTITE	6006-001095	WP,BH,M4,L12	12	SPK+FRONT
8	BRKT-SIDE	BN61-00988A	SECC T1.0	2	
9	ASSY BRKT-FRAME	BN96-01093B	GAIA,SECC T1.6	1	
10	SCREW-MACHINE	6001-001786	TH,M4,L8	14	BRKT+PANEL
11	SCREW-TAPTITE	6003-001019	RH,M4,L12	12	BRKT+FRONT
12	BRKT-MAIN,BOT	BN61-00993A	SECC T1.2	1	
13	SCREW-TAPTITE	6003-001019	RH,M4,L12	2	B/MAIN,BOT+B/SIDE
14	ASSY SIDE-AV	BN96-01315B	GAIA 46"	1	
15	SCREW-TAPTITE	6003-001019	RH,M4,L12	2	SIDE+FRONT
16	FILTER EMI AC LINE	2901-001288	250V	1	
17	SCREW-TAPTITE	6003-001010	FH,M3,L6	2	SOCKET+BRKT
18	BOARD ASSY	-	GAIA 46"	1	
19	SCREW-ASSY MACH	6006-001132	WSP,PH,M3,L8	14	BOADR+BRKT
20	ASSY SHIELD	BN96-01122C	GAIA,SECC T0.5	1	
21	SCREW-TAPTITE	6003-001019	RH,M4,L12	23	SHIELD+BRKT
22	COVER-BOTTOM	BN63-01122A	ABS,V0	1	
23	SCREW-TAPTITE	6003-001019	RH,M4,L12	3	C/BOT+BRKT
24	ASSY COVER-REAR	BN96-00978E	GAIA 46",HIPS V0	1	
25	SCREW-TAPTITE	6003-001323	BH,M4,L12,NI PLT	22	C/R+C/F
26	ASSY STAND	BN96-01165A	GAIA 46",ABS V0	1	
27	SCREW-TAPPING	6002-001290	RH,M4,L20	4	STAND+BRKT
28	SCREW-TAPTITE	6003-001323	BH,M4,L12,NI PLT	2	STAND+FRONT



Memo

# 1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

## 1-1 Safety Precautions

### 1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC Power Jack before servicing.

### 1-1-2 Servicing the LCD TV

1. When servicing the LCD TV disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

### 1-1-3 Fire and Shock Hazard

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

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the LCD TV.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):

**WARNING:** Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

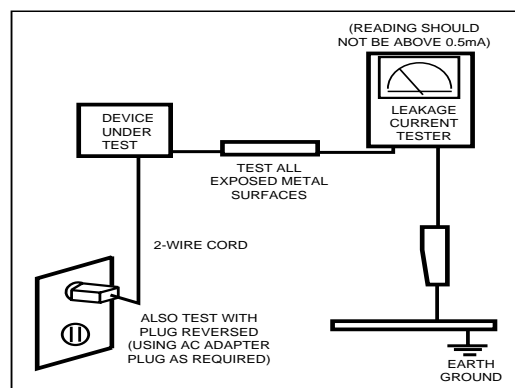


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

### 1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by  $\triangle$  on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

### 1-2 Servicing Precautions

---

**WARNING:** An electrolytic capacitor installed with the wrong polarity might explode.

**Caution:** Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

**Note:** If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

#### 1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:  
(a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

### 1-3 Electrostatically Sensitive Devices (ESD) Precautions

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Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the LCD TV.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.  
**Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.**
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.



MODEL: GATA PAL  
CODE NO.: BN41-00423E REV NO.: SR1.0(2004.07.21)

SMD

10 PCB Layout

Loc. No.	Description	X	Y
DIODE			
D101	DIODE-ZENER	37.6	36.8
D102	DIODE-SWITCHING	46.4	36.8
D103	DIODE-SWITCHING	46.4	36.8
D112	DIODE-ZENER	42.0	36.8
D113	DIODE-SWITCHING	85.2	50.4
D114	DIODE-SWITCHING	80.8	50.4
D115	DIODE-SWITCHING	89.6	50.4
D116	DIODE-SWITCHING	83.2	54.8
D117	DIODE-SWITCHING	87.6	54.8
D118	DIODE-SWITCHING	92.0	54.8
D119	DIODE-SWITCHING	94.0	50.4
D120	DIODE-SWITCHING	96.4	54.8
D121	DIODE-SCHOTTKY	10.4	74.8
D122	DIODE-ZENER	59.1	48.0
D123	DIODE-ZENER	114.0	59.6
D124	DIODE-ZENER	118.4	59.6
D125	DIODE-SWITCHING	131.6	59.6
D126	DIODE-SWITCHING	127.2	59.6
D127	DIODE-SWITCHING	122.8	59.6
D128	DIODE-ZENER	118.4	54.4
D129	DIODE-SCHOTTKY	37.6	36.8
D130	DIODE-SCHOTTKY	118.4	69.2
D131	DIODE-SCHOTTKY	69.6	48.0
D132	DIODE-SCHOTTKY	114.0	54.4
D133	DIODE-SCHOTTKY	118.4	64.4
D199	DIODE-TVS	50.0	36.8
D201	DIODE-ZENER	254.4	64.4
D202	DIODE-ZENER	250.0	64.4
D203	DIODE-ZENER	254.4	59.6
D204	DIODE-ZENER	250.0	59.6
D205	DIODE-ZENER	254.4	64.4
D206	DIODE-ZENER	250.0	64.4
D207	DIODE-ZENER	254.4	59.6
D208	DIODE-ZENER	250.0	59.6
D209	DIODE-ZENER	23.6	16.2
D210	DIODE-ZENER	148.8	56.0
D212	DIODE-ZENER	144.4	56.0
D213	DIODE-ZENER	136.0	59.6
D214	DIODE-ZENER	148.8	56.0
D215	DIODE-ZENER	153.2	56.0
D2150	DIODE-ZENER	254.4	54.8
D2151	DIODE-ZENER	250.0	54.8
D216	DIODE-ZENER	144.4	56.0
D217	DIODE-SWITCHING	245.6	59.6
D218	DIODE-SWITCHING	241.2	59.6
D219	DIODE-SWITCHING	236.8	59.6
D220	DIODE-SWITCHING	232.4	59.6
D221	DIODE-ZENER	223.6	56.0
D222	DIODE-ZENER	228.0	56.0
D223	DIODE-ZENER	212.8	25.6
D224	DIODE-ZENER	218.4	48.6
D225	DIODE-ZENER	222.8	48.6
D226	DIODE-ZENER	223.6	56.0
D227	DIODE-ZENER	228.0	56.0
D229	DIODE-ZENER	218.4	43.8
D230	DIODE-ZENER	222.8	43.8
D231	DIODE-ZENER	258.8	64.4
D232	DIODE-ZENER	263.2	64.4
D233	DIODE-ZENER	258.8	59.6

Loc. No.	Description	X	Y
D234	DIODE-ZENER	263.2	59.6
D235	DIODE-ZENER	258.8	64.4
D236	DIODE-ZENER	263.2	64.4
D237	DIODE-ZENER	258.8	59.6
D238	DIODE-ZENER	263.2	59.6
D239	DIODE-ZENER	162.0	56.0
D241	DIODE-ZENER	157.6	56.0
D242	DIODE-ZENER	140.0	59.6
D243	DIODE-ZENER	219.2	56.0
D244	DIODE-ZENER	214.8	56.0
D245	DIODE-ZENER	162.0	56.0
D246	DIODE-ZENER	166.4	56.0
D247	DIODE-ZENER	157.6	56.0
D249	DIODE-ZENER	219.2	56.0
D250	DIODE-ZENER	214.8	56.0
D251	DIODE-ZENER	212.8	30.8
D252	DIODE-ZENER	209.6	48.6
D253	DIODE-ZENER	214.0	48.6
D254	DIODE-ZENER	209.6	43.8
D255	DIODE-ZENER	214.0	43.8
D256	DIODE-ZENER	210.4	56.0
D257	DIODE-ZENER	201.6	56.0
D258	DIODE-ZENER	206.0	56.0
D259	DIODE-ZENER	197.2	56.0
D260	DIODE-ZENER	210.4	56.0
D261	DIODE-ZENER	201.6	56.0
D262	DIODE-ZENER	206.0	56.0
D263	DIODE-ZENER	197.2	56.0
D264	DIODE-ZENER	136.0	51.2
D265	DIODE-ZENER	131.6	51.2
D266	DIODE-ZENER	136.0	51.2
D267	DIODE-ZENER	131.6	51.2
D268	DIODE-SWITCHING	192.8	56.0
D269	DIODE-SWITCHING	188.4	56.0
D270	DIODE-SWITCHING	184.0	56.0
D271	DIODE-SWITCHING	179.6	56.0
D272	DIODE-ZENER	127.2	51.2
D273	DIODE-ZENER	122.8	51.2
D274	DIODE-ZENER	170.8	56.0
D275	DIODE-ZENER	175.2	56.0
D276	DIODE-ZENER	127.2	51.2
D277	DIODE-ZENER	122.8	51.2
D278	DIODE-ZENER	170.8	56.0
D279	DIODE-ZENER	175.2	56.0
D280	DIODE-ZENER	153.2	56.0
D281	DIODE-ZENER	145.6	167.6
D282	DIODE-ZENER	130.0	192.0
D283	DIODE-ZENER	166.4	56.0
D298	DIODE-ZENER	218.4	38.8
D299	DIODE-ZENER	214.0	38.8
D601	DIODE-ZENER	194.0	168.8
D602	DIODE-SWITCHING	252.4	185.6
D605	DIODE-ZENER	212.8	20.4
D606	DIODE-ZENER	244.0	185.2
D607	DIODE-ZENER	252.0	154.8
D609	DIODE-RECTIFIER	224.4	214.4
D610	DIODE-RECTIFIER	210.8	214.4
D611	DIODE-RECTIFIER	251.6	214.4
D612	DIODE-RECTIFIER	238.0	214.4
D613	DIODE-ZENER	212.8	15.6

Loc. No.	Description	X	Y
D614	DIODE-ZENER	313.0	22.2
D615	DIODE-ZENER	313.0	22.2
D650	DIODE-SWITCHING	314.4	36.2
D801	DIODE-ZENER	302.2	225.2
D802	DIODE-ZENER	297.6	225.2
D803	DIODE-RECTIFIER	71.6	228.4
D804	DIODE-RECTIFIER	30.0	232.8
D805	DIODE-RECTIFIER	30.0	219.6
D806	DIODE-TVS	312.8	17.8
D807	DIODE-TVS	310.8	17.8
D818	DIODE-TVS	52.6	36.8
D819	DIODE-ZENER	245.6	64.4
D820	DIODE-ZENER	245.6	59.6
D821	DIODE-ZENER	186.6	56.0
IC			
IC101	IC-RECEIVER	100.4	76.8
IC102	IC-TRANSMITTER	64.4	76.8
IC103	IC-VOL. DETECTOR	101.6	58.0
IC104	IC-VOL. DETECTOR	15.6	80.8
IC105	IC-EEPROM	118.9	79.2
IC106	IC-TTL	124.0	101.2
IC107	IC-POS.I.ADJUST REG.	64.8	97.2
IC108	IC-POS.I.FIXED REG.	42.4	96.8
IC109	IC-EEPROM	54.4	47.6
IC110	IC-EEPROM	30.8	35.6
IC111	FET-SILICON	23.6	41.2
IC112	FET-SILICON	62.6	48.0
IC114	IC-POS.I.FIXED REG.	24.8	96.8
IC115	IC-RECEIVER	33.2	76.8
IC201	IC-POS.I.FIXED REG.	289.3	151.6
IC202	IC MICOM	39.2	20.0
IC203	IC-VOL. DETECTOR	46.4	8.0
IC205	IC-I/O SUPPORT CHIP	130.4	203.6
IC207	IC-VIDEO SWITCH	138.4	79.2
IC209	IC-VIDEO SWITCH	160.4	79.2
IC210	IC-POS.I.FIXED REG.	249.6	110.4
IC211	IC-POS.I.FIXED REG.	243.6	78.8
IC212	IC-POS.I.FIXED REG.	294.4	75.6
IC213	IC-I/O SUPPORT CHIP	130.4	180.4
IC214	IC-AUDIO SWITCH	236.4	134.4
IC215	IC-AUDIO SWITCH	236.4	105.6
IC302	IC-VIDEO DECODER	193.2	111.2
IC303	IC-VIDEO SWITCH	207.6	75.4
IC304	IC-VIDEO DECODER	193.2	148.8
IC305	IC-FLASH MEMORY	162.8	218.0
IC306	IC-DRAM	153.6	195.2
IC307	IC-DECODER	155.6	192.4
IC308	IC-POS.I.FIXED REG.	184.2	198.8
IC309	IC-DRIVER/RECEIVER	162.0	228.8
IC310	IC-VIDEO SWITCH	185.2	75.4
IC401	IC-VIDEO PROCESS	155.6	147.2
IC402	IC-VIDEO PROCESS	155.6	108.0
IC403	IC-VIDEO PROCESS	155.6	146.8
IC404	IC-VIDEO PROCESS	155.6	107.6
IC405	IC-CMOS LOGIC	124.0	123.2
IC501	IC-DRAM	42.4	119.6
IC502I	C-FLASH MEMORY	115.2	154.8
IC503	IC-LCD CONTROLLER	81.3	123.2
IC504	IC-POS.I.FIXED REG.	32.8	149.6

Loc. No.	Description	X	Y
IC505	IC-POS.I.FIXED REG.	41.6	150.0
IC601	IC-RESET	112.4	225.6
IC602	IC-CMOS LOGIC	186.8	226.8
IC603	IC-REAL TIME CLOCK	140.0	226.4
IC604	IC-TTL	188.0	210.8
IC605	IC-EEPROM	140.0	216.0
IC606	IC-SRAM	188.0	223.2
IC607	IC-TTL	198.0	217.2
IC608	IC-MICROCONTROLLER	87.6	218.8
IC609	IC-CMOS LOGIC	186.8	218.8
IC611	IC-TTL	188.0	235.6
IC612	IC-RESET	106.0	225.6
IC613	IC-ANALOG SWITCH	126.4	225.6
IC614	IC-TTL	198.0	228.4
IC615	IC-TTL	198.0	228.0
IC616	IC-OP AMP	19.6	132.8
IC617	IC-TTL	198.0	217.2
IC618	IC-ANALOG SWITCH	126.4	215.6
IC619	IC-OP AMP	212.8	194.0
IC620	IC-OP AMP	238.4	194.0
IC621	IC-OP AMP	232.0	194.0
IC622	IC-OP AMP	225.6	194.0
IC623	IC-OP AMP	219.2	194.0
IC624	IC-AUDIO AMP	212.8	173.6
IC625	IC-AUDIO AMP	216.0	205.6
IC626	IC-CMOS LOGIC	202.4	174.0
IC627	IC-SOUND PROCESSOR	233.2	170.4
IC628	IC-VOL. DETECTOR	200.8	183.8
IC629	IC-AUDIO AMP	235.6	205.6
IC630	IC-CMOS LOGIC	252.4	185.2
IC632	IC-CMOS LOGIC	109.6	215.6
IC635	IC-POS.I.FIXED REG.	194.6	199.2
IC636	IC-POS.I.FIXED REG.	198.0	181.8
IC701	IC-POS.I.ADJUST REG.	116.8	168.0
IC702	IC-VIDEO PROCESS	81.3	176.0
IC703	IC-POS.I.ADJUST REG.	112.4	207.2
IC704	IC-TRANSMITTER	30.8	167.2
IC705	IC-TRANSMITTER	30.8	184.8
IC706	IC-DRAM	51.2	166.8
IC707	IC-DRAM	51.2	184.4
IC708	IC-POS.I.FIXED REG.	6.8	186.8
IC709	IC-POS.I.FIXED REG.	132.4	168.8
IC801	FET-SILICON	14.4	199.2
IC802	FET-SILICON	14.8	164.8
IC803	FET-SILICON	14.4	209.2
IC804	IC-SWITCH REG.	61.2	228.4
IC805	IC-POS.I.FIXED REG.	24.4	149.6
IC806	IC-TIMER	12.4	132.4
IC807	IC-TIMER	12.4	144.8
IC808	IC-SWITCH VOL. REG.	23.6	232.8
IC809	IC-SWITCH VOL. REG.	23.6	219.6
IC810	IC-DRIVER/RECEIVER	311.6	69.6
IC811	IC-POS.I.FIXED REG.	304.8	43.6
TRANSISTOR			
Q101	TR-SMALL SIGNAL	118.4	74.4
Q102	FET-SILICON	42.0	36.8
Q301	TR-SMALL SIGNAL	224.0	69.6
Q302	TR-SMALL SIGNAL	229.2	69.6

Loc. No.	Description	X	Y
Q303	TR-SMALL SIGNAL	180.8	169.0
Q304	TR-SMALL SIGNAL	242.0	69.6
Q305	TR-SMALL SIGNAL	135.6	177.2
Q306	TR-SMALL SIGNAL	135.6	183.6
Q307	TR-SMALL SIGNAL	135.6	190.0
Q308	TR-SMALL SIGNAL	135.6	196.4
Q309	TR-SMALL SIGNAL	135.6	202.8
Q310	TR-SMALL SIGNAL	135.6	209.2
Q501	FET-SILICON	110.0	130.8
Q502	FET-SILICON	110.0	135.2
Q503	FET-SILICON	114.0	130.8
Q504	FET-SILICON	114.0	135.2
Q602	TR-SMALL SIGNAL	121.2	224.0
Q603	TR-SMALL SIGNAL	202.4	168.8
Q604	TR-SMALL SIGNAL	104.0	216.4
Q605	TR-SMALL SIGNAL	121.2	213.6
Q606	TR-SMALL SIGNAL	194.0	173.6
Q610	TR-SMALL SIGNAL	314.4	27.0
Q621	TR-SMALL SIGNAL	314.4	31.6
Q622	TR-SMALL SIGNAL	216.0	141.0
Q801	TR-SMALL SIGNAL	13.2	199.2
Q802	TR-SMALL SIGNAL	12.8	154.0
Q803	TR-SMALL SIGNAL	289.0	225.2
Q804	TR-SMALL SIGNAL	281.0	225.2
Q805	TR-SMALL SIGNAL	293.0	225.2
Q806	TR-SMALL SIGNAL	285.0	225.2
Q807	TR-SMALL SIGNAL	13.2	210.0
Q809	FET-SILICON	50.6	36.8
Q810	TR-SMALL SIGNAL	212.4	85.4
Q811	TR-SMALL SIGNAL	183.2	85.4
Q812	TR-SMALL SIGNAL	196.8	85.4
Q813	TR-SMALL SIGNAL	187.2	169.0
Q814	TR-SMALL SIGNAL	174.4	169.0