



## TFT-LCD TV

Chassis      GSA32SEN  
                  GSD37SEN  
                  GSD40SEN

Model        LE32S67BDX  
                  LE37S67BDX  
                  LE40S67BDX

# *SERVICE* Manual

### TFT-LCD TV



### Fashion Feature

- Luxurious Slim Design
- Supreme Picture Quality
- Supreme Sound Quality
- Supreme Convenience Quality
- Convenience for Users
- DVB-T, iDTV

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LE32S67BD/LE40S67BD/LE46S67BD

Service Manual

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GSPN(Global Service Partner Network)

Area	Web Site
North America	<a href="http://service.samsungportal.com">http://service.samsungportal.com</a>
Latin America	<a href="http://latin.samsungportal.com">http://latin.samsungportal.com</a>
CIS	<a href="http://cis.samsungportal.com">http://cis.samsungportal.com</a>
Europe	<a href="http://europe.samsungportal.com">http://europe.samsungportal.com</a>
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## 3 Alignments and Adjustments

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### 3-1 Service Instruction

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation.  
Check the basic characteristics such as height, horizontal and vertical sync.
2. Use the specified test equipment or its equivalent.
3. Correct impedance matching is essential.
4. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test result.
5. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
6. Do not attempt to connect or disconnect any wire while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
7. To protect against shock hazard, use an isolation transform.

## 3-2 How to Access Service Mode

### 3-2-1 Entering Factory Mode

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

- If you do not have Factory remote - control



- If you have Factory remote - control



- The buttons are active in the service mode.

1. Remote - Control Key : Power, Arrow Up, Arrow Down, Arrow Left  
Arrow Right, Menu, Enter, Number Key(0~9)
2. Function - Control Key : Power, CH +, CH -, VOL +, VOL -,  
Menu, TV/VIDEO(Enter)

### 3-2-2 Panel Check

Specially for LE32R71B, You have to check Panel Maker Because of different adjustments as follows.  
First of all, Check the label rating!

#### 1) Label Rating File



- LCD PANEL MARK -

A:ACER(AUO)      S:SEC

\* If not printed you could consider S(sec) panel mark.

#### 2) If Panel Mark is "A", Set the factory mode indicating as follows.

\* Option Byte

1. Inch Option      32"
2. Gamma          32"AUO
3. Panel Option      AUO

Others are same shown below.

## 3-3 Factory Data

1. Calibration  
 2. Option Byte  
 3. W/B  
 4. W/B Movie  
 5. MTK8202  
 6. FBE2 option  
 7. Sound  
 8. YC Delay  
 9. Adjust  
 10. Bus Stop  
 11. Password               80 80 80 80  
 12. Dynamic Contrast  
 13. Spread Spectrum  
 14. Checksum               7C3E  
 15. Reset  
 HDCP Write    Success..(or Failure..)  
 T-BDPMPEUS-xxxx  
 T\_SNM2PEUMD-XXXX (Main Micom Ver)  
     Month / Day / Year / Hour / Min. / Sec.

1. Calibration
  - 1) AV Calibration
  - 2) DTV Calibration
  - 3) PC Calibration
  - 4) HDMI Calibration

### 2. Option Byte

No	Item	OPTION
1	Panel Inch	32
2	Panel Vender	CPT_INT
3	PANEL TYPE	32CPT
4	Gamma	Off
5	Auto Power	On
6	Hotel Mode	Off
7	Shop Mode	Off
8	High Devi	Off
9	Carrier Mute	Off
10	TTX	On
11	TTX List	Flof
12	TTX Group	User OSD
13	TTX ATM	Off
14	Side Jackt	ON
15	IDTV Mode	ON
16	IDTV Country	UK
17	Volume Table	Small
18	Sound Wattage	LCD 10W
19	Language	English
20	HP Detect	Active High
21	PC IDENT	ON
22	WM Calib	Off
23	Uart Select	Debug/DL
24	Nordic	ON

### 3 Alignments and Adjustments

#### 3. White Balance

No	Item	Range	RF/AV
1	Sub Bright	00H~FFH	128
2	Red offset	00H~FFH	128
3	Green offset	00H~FFH	128
4	Blub offset	00H~FFH	128
5	Sub Contrast	00H~FFH	128
6	Red Gain	00H~FFH	128
7	Green Gain	00H~FFH	128
8	Blue Gain	00H~FFH	128

#### 4. W/B Movie

No	Item	RF/AV/S_video
1	W/B MOVIE On/Off	Off
2	Service P Mode	Movie
3	Service Color Tone	Warm2
4	MSub Brightness	128
5	MSub Contrast	128
6	Warm1 Red Gain	156
7	Warm1 Blue Gain	39
8	Warm1 Red Offset	128
9	Warm1 Blue Offset	133
10	Warm2 Red Gain	155
11	Warm2 Blue Gain	30
12	Warm2 Red Offset	131
13	Warm2 Blue Offset	133
14	Normal Red Gain	136
15	Normal Blue Gain	87
16	Normal Red Offset	129
17	Normal Blue Offset	131
18	Cool2 Red Gain	114
19	Cool2 Blue Gain	149
20	Cool2 Red Offset	129
21	Cool2 Blue Offset	127
22	Mov. Contrast	80
23	Mov. Brightness	45
24	Mov. Color	55
25	Mov. Sharpness	45

## 5. MTK8202

## 1) Cal. Adjustment

No	Item	Range
1	R_Offset	31
2	G_Offset	23
3	B_Offset	28
4	R_Gain	92
5	G_Gain	96
6	B_Gain	92
7	Y_Offset	13
8	Cb_Offset	28
9	Cr_Offset	31
10	Y_Gain	62
11	Cb_Gain	62
12	Cr_Gain	62
13	CVBS Offset	55
14	CVBS Gain	52
15	CVBS U	0
16	CVBS V	0
17	R Offset After	128
18	G Offset After	128
19	B Offset After	128
20	Red Gain	128
21	Green Gain	128
22	Blue Gain	128
23	R Offset Before	128
24	G Offser Before	128
25	B Offset Before	128
26	LVDS Control	55

### 3 Alignments and Adjustments

#### 2) Cal. Target

No	Item	Range
1	AV_Offset Target	15
2	AV_Offset Delta	1
3	AV_Gain Target	220
4	AV_Gain Delta	3
5	Comp_Y_Gain Target	235
6	Comp_Y_Gain Delta	3
7	Comp_Y_Offset Target	16
8	Comp_Pb_Offset Target	128
9	Comp_Pr_Offset Target	128
10	Comp_Y_Offset Delta	2
11	Comp_Pb_Offset Delta	0
12	Comp_Pr_Offset Delta	0
13	PC_Offset_Target	1
14	PC_Offset_Delta	0
15	PC_Gain_Target	254
16	PC_Gain_Delta	0
17	Black Target	1
18	White Target	235

#### 3) Scart RGB

No	Item	ALL Mode
1	SC1_R_Offset	115
2	SC1_G_Offset	115
3	SC1_B_Offset	115
4	SC1_R_Gain	70
5	SC1_G_Gain	70
6	SC1_B_Gain	70

#### 4) Picture enhance1

## 5) Picture enhance2

No	Item	Range
1	PreLGain_Main	64
2	PreMGain_Main	64
3	PreHGain_Main	80
4	PreLGain_Sub	64
5	PreMGain_Sub	64
6	PreHGain_Sub	76
7	LocalLGain	72
8	LocalMGain	64
9	LocalHGain	64
10	PostLGain	112
11	PostMGain	128
12	PostHGain	72
13	Vgain	32
14	Sub Color	40

## 6. FBE2 option

No	Item	Range
1	Patt-Sel	0
2	B-Slope gain	60
3	B-Tilt min	40
4	B-Tilt max	100
5	Lfunc-Basis	75
6	Hfunc-Basis	80
7	Mean-Offset1	40
8	Mean-Offset2	235
9	Mean-Slope	107
10	Input-Offset	128
11	ACR-Offset	10
12	ACR-Th1	10
13	ACR-Th2	110
14	Skin-Enable	On
15	Skin-Tu	130
16	Skin-Tv	130
17	M-Skin-Tu	125
18	M-Skin-Tv	125
19	Sub color	138
20	M-Au-Sub color	128
21	M-Wi-Sub color	128
22	MW-Skin-Tu	128
23	MW-Skin-Tv	128



### 3 Alignments and Adjustments

#### 7. SOUND

No	Item	Range
1	AM_Mute Th_High	9
2	AM_Mute Th_Low	8
3	FM_Mute Th_High	34
4	FM_Mute Th_Low	32
5	Correct Threshold	6
6	Sync Loop	0
7	Error Threshold	8
8	Parity Error Thrd	48
9	Every Num Frames	512
10	Num of Check	10
11	Num of Double Chk	10
12	Mono Weight	1
13	Stereo Weight	1
14	Dual Weight	1
15	M2S Threshold	10
16	S2M Threshold	10
17	NICAM FINE VOL	20
18	FM FINE VOL	20
19	AM FINE VOL	22
20	FINE TUNE VOL	20
21	SC1 Fine Vol	21
22	SC2 Fine Vol	21
23	Output Matrix	Bypass
24	Speaker EQ	Off

## 8. YC Delay

No	Item	TV/AV/S_Video
1	RF PAL-B/G	6
2	RF PAL-D/K	5
3	RF PAL- I	5
4	RF PAL- L/L'	5
5	RF SECAM-B/G	7
6	RF SECAM-D/K	5
7	RF SECAM-I	5
8	RF SECAM-L/L'	5
9	RF NTSC3.58	5
10	RF NTSC4.43	6
11	AV PAL	6
12	AV SECAM	7
13	AV NTSC3.58	6
14	AV NTSC4.43	6
15	AV PAL60	5

## 9. Adjust

## 1) User Control Init

No	Item	Range
1	TTX PWM	30
2	Dyn. Contrast	100
3	Dyn. Brightness	45
4	Dyn. Color	55
5	Dyn. Sharpness	75
6	Std. Contrast	80
7	Std. Brightness	50
8	Std. Color	55
9	Std. Sharpness	50
10	Melody Volume	0
11	Brightness Center	38
12	Contrast Gain	64
13	MTK_Dyn.Contrast	Off
14	DSP Recovery	ON
15	Channel Table	SESK
16	Video Mute Time	10
17	Sound Delay	0
18	D/L Select	ATV
19	Tuner Select	AUTO

### 3 Alignments and Adjustments

#### 2) LNA PLUS

No	Item	Range
1	LNA PLUS	On
2	RF_dB0_TH	5
3	RF_dB1_TH	15
4	RF_dB2_TH	43
5	RF_dB3_TH	64
6	NR1_Coring	16
7	NR2_Coring	32
8	NR3_Coring	32
9	NR4_Coring	32

#### 3) Hotel Option

No	Item	Range
1	Power On Channel	1
2	Power On Band	AIR
3	Power On Volume	10
4	Max Volume	100
5	Local Key Lock	OFF
6	Power On Source	TV

#### 4) HDMI

Hot Plug : ON  
Clock Control : ON  
Hot Plug DLY : 9

#### 5) Watch Dog Mode    OFF

#### 10. Bus Stop

No	Item	Range
1	Main Loop	Off
2	Eeprom	Off
3	Tuner	Off
4	Normal	Off
5	Watch Dog	On

#### 11. Password :    80    80    80    80

## 12. Dynamic Contrast

No	Item	Range
1	Dynamic CE	Off
2	Dynamic Dimming	Off
3	FBE2 Y_MEAN Read	87

## 13. Spread Spectrum

No	Resolution	Range
1	Spread Spectrum	Off
2	Step 480i/576i	40
3	Range 480i/576i	50
4	Step 480p/576p	30
5	Range 480p/576p	50
6	Step 720p	30
7	Range 720p	40
8	Step 1080i	30
9	Range 1080i	45
10	Step 640*480	40
11	Range 640*480	50
12	Step 800*600	40
13	Range 800*600	55
14	Step 1024*768	40
15	Range 1024*768	55
16	Step 1360*768	40
17	Range 1360*768	55
18	FBE_Spectrum	2

## 14. CheckSum 7C3E

## 15. Reset

### 3 Alignments and Adjustments

## 3-4 Service Adjustment

### 3-4-1 White Balance - Calibration

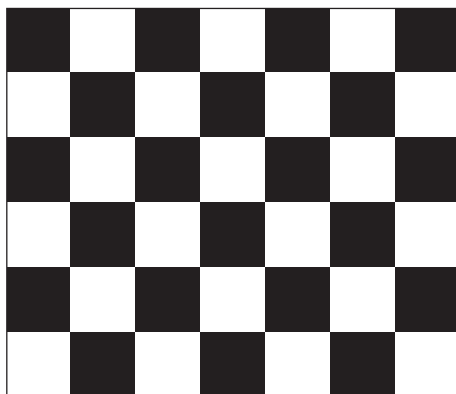
If picture color is wrong, do calibration first.

Equipment : CA210, Patten : chess pattern

Execute calibration in Factory Mode

Source AV : PAL composite, Component : 1280\*720/60Hz

PC : 1024\*768/60Hz



( chess patten )

### 3-4-2 White Balance - Adjustment

If picture color is wrong, check White Balance condition.

Equipment : CA210, Patten : Toshiba

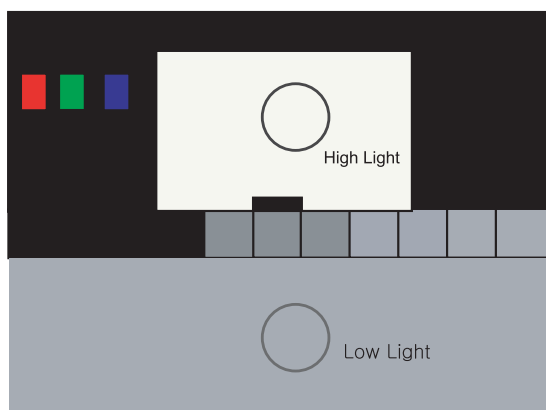
Adjust W/B in Factory Mode

Sub brightness and R/G/B Offset controls low light region

Sub contrast and R/G/B Gain controls high light region

Source AV : PAL composite, Component : 1280\*720/60Hz

HDMI[DVI] : 1280\*720/60Hz



[ Test Pattern : MSPG-945 Series Pattern #16 ]

\*Color temperature

1500K +/-500, -6 ~-20 MPCD

\*Color coordinate

H/L : 267/263 +/- 2 35.0 Ft +/- 2.0Ft

L/L : 270/260 +/- 3 1.5 Ft +/- 0.2Ft

Toshiba Patten

### 3-4-3 Conditions for Measurement

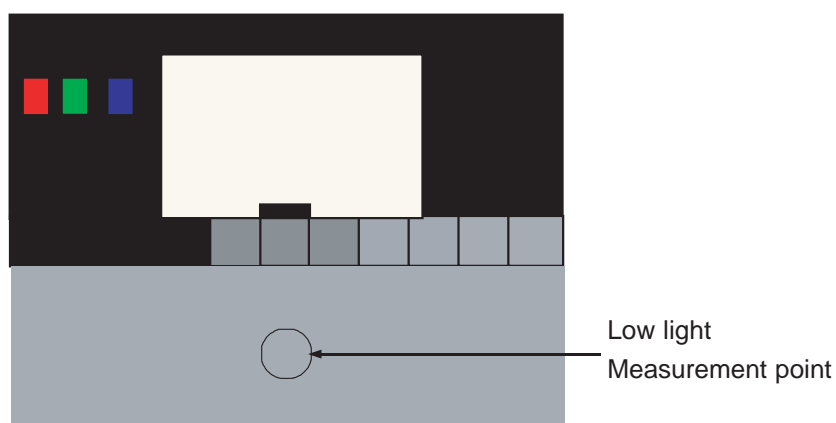
1. On the basis of toshiba ABL pattern : High Light level (57 IRE)
  - INPUT SIGNAL GENERATOR : MSPG-925LTH
    - \* Mode NO 2 : 744X484@60 Hz
    - NO 6 : 1280X720@60 Hz
    - NO 21 : 1024X768@60 Hz
    - \* Pattern NO 36 : 16 Color Pattern
    - NO 16 : Toshiba ABL Pattern
2. Optical measuring device : CA210 (FL)
 

Please use the MSPG-925 LTH generator for model LE26M51B/LE32M51B/LE40M51B/LE46M51B.

### 3-4-4 Method of Adjustment

1. Adjust the white balance of AV, Component and DVI Modes.
  - (AV → Component)
  - a) Set the input to the mode in which the adjustment will be made  
(RF → DTV → PC → DVI).
  - \* Input signal - VIDEO Mode : Model #2 (744\*484 Mode), Pattern #16
    - DTV,DVI Mode : Model #6 (1280\*720 Mode), Pattern #16
    - HDMI Mode: Model #6(1280\*720 Mode), Pattern #16
  - b) Enter factory color control, confirm the data.
  - c) Adjust the low light. (Refer to table 1, 2 in adjustment position by mode)
    - Adjust sub - Brightness to set the 'Y' value.
    - Adjust red offset ('x') and blue offset ('y') to the color coordinates.

Picture 4-2 Toshiba ABL Pattern



\* Do not adjust green offset data.

- d) Adjust the high light. (Refer to table 1, 2 in adjustment position by mode)
  - Adjust red gain ('x') and blue gain ('y') to the color coordinates.
  - \* Do not adjust the green gain and sub-contrast (Y) data.

### 3 Alignments and Adjustments

## 3-5 Software Upgrade

### 3-5-1 How to Update Flash ROM

#### 1. Install the Flash Downloader

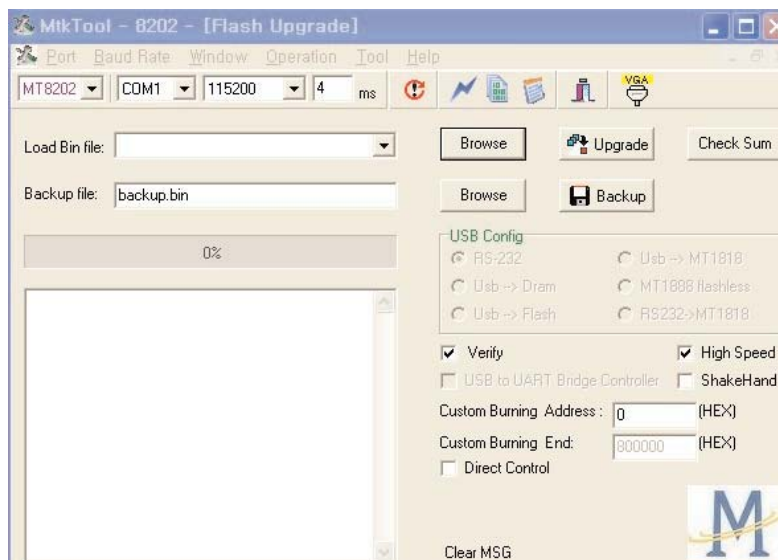
Connect Set (Service Jack) and Jig Cable to execute Program Update.



#### 2. Flash Downloader program update

-Before Turning on the set, Click "connect" which is under of OSD Screen!

-Turn on the Set.



## 3-6 DTV Program Download & Generals

### 3-6-1 Software Version Check Method

Press the MENU key and select System.

Where you can find the Product Information menu in it.

When you press the Product Information you can find the Software Version.

### 3-6-2 Serial Download Method

- 1) Turn off LCD-TV.
- 2) Connect the RS-232 cable to the LCD-TV
- 3) Execute the sv2\_fr.exe file.
- 4) Assign the path of samsung.tvz file (application image)
- 5) Execute the progress follow the screen until step 2.
- 6) Turn On the LCD-TV.
- 7) If the LCD-TV turn on during the sv2\_fr.exe execution, it will automatically find the COM port and execute the upgrade.

### 3-6-3 Hyper Terminal Setting

Set the hyper terminal to observe the progress of the TV via the RS-232 cable.

Set up hyper terminal.

- 1) When setting up a hyper terminal, set it in sub-program.
- 2) Enter a new name.
- 3) Select a modem port. (com 1 and direct connection.)
- 4) Set the bit/second to 115200.
- 5) Set the data bit to 8.
- 6) No parity bit.
- 7) Set stop bit to 1.
- 8) No flow control.
- 9) Save in memory.
- 10) At this point, the new hyper terminal is ready.

### 3-6-4 Resetting the System Parameters

- 1) Press the MENU button and select the Reset menu of System.
- 2) Press the secret number.
- 3) Press the RED, GREEN, YELLOW, BLUE button in order, after the Reset execute.
- 4) In a few minutes, DTV will booting again.



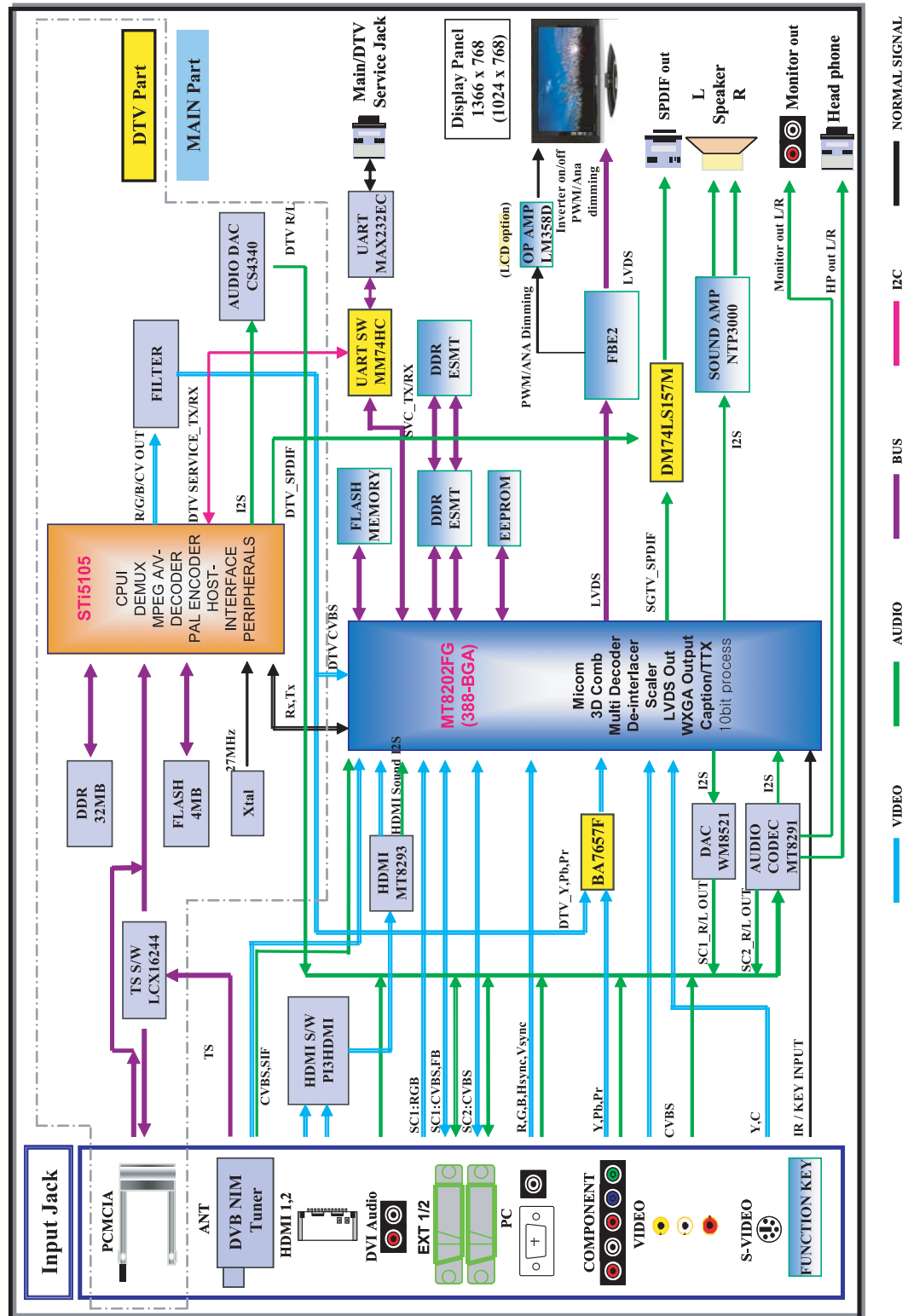
## Memo

## 7 Block Diagram

- This Document can not be used without Samsung's authorization

### 7-1 Main Block Diagram

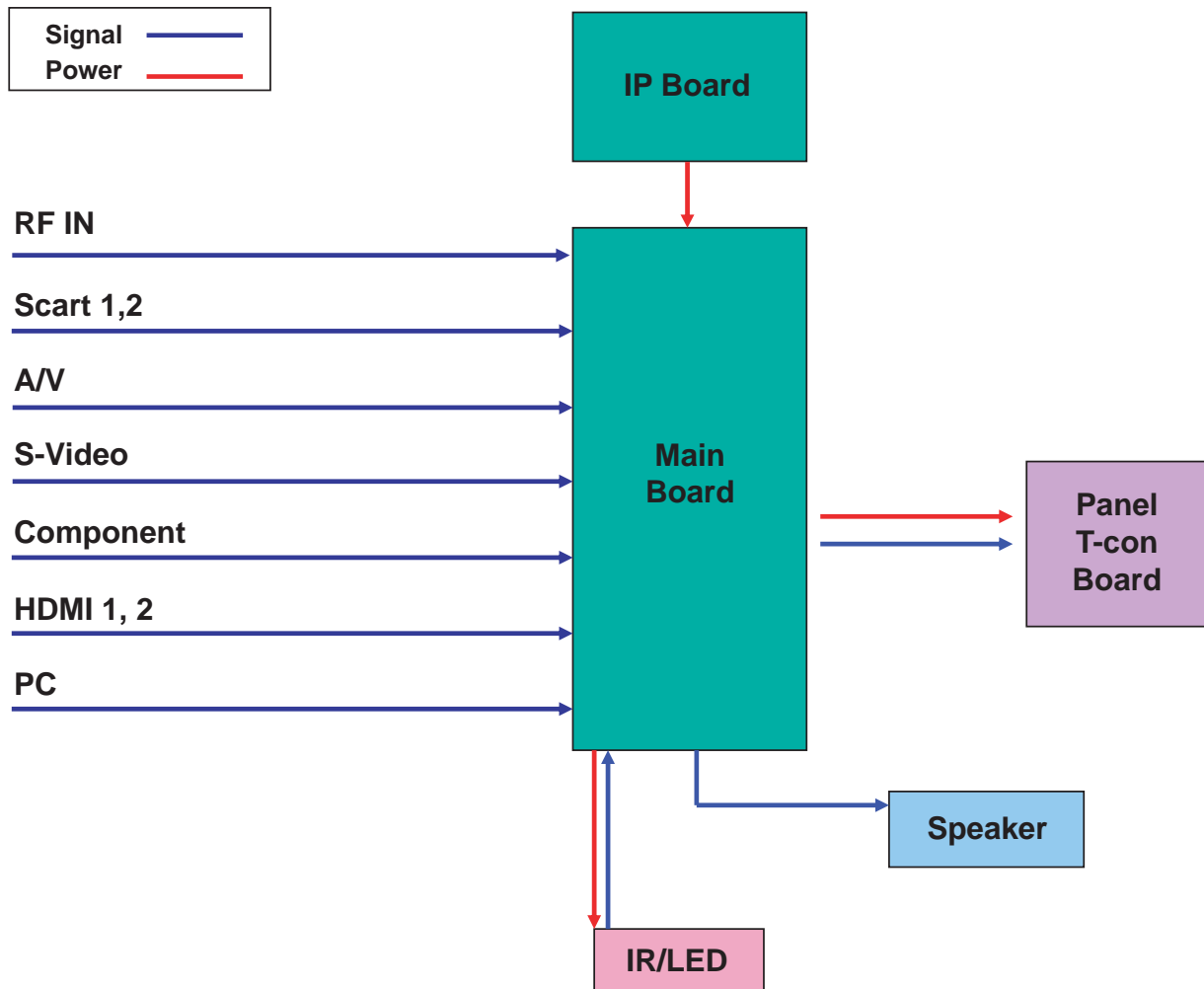
Jasmine iDTV Block Diagram (MT8202FG)



## Memo

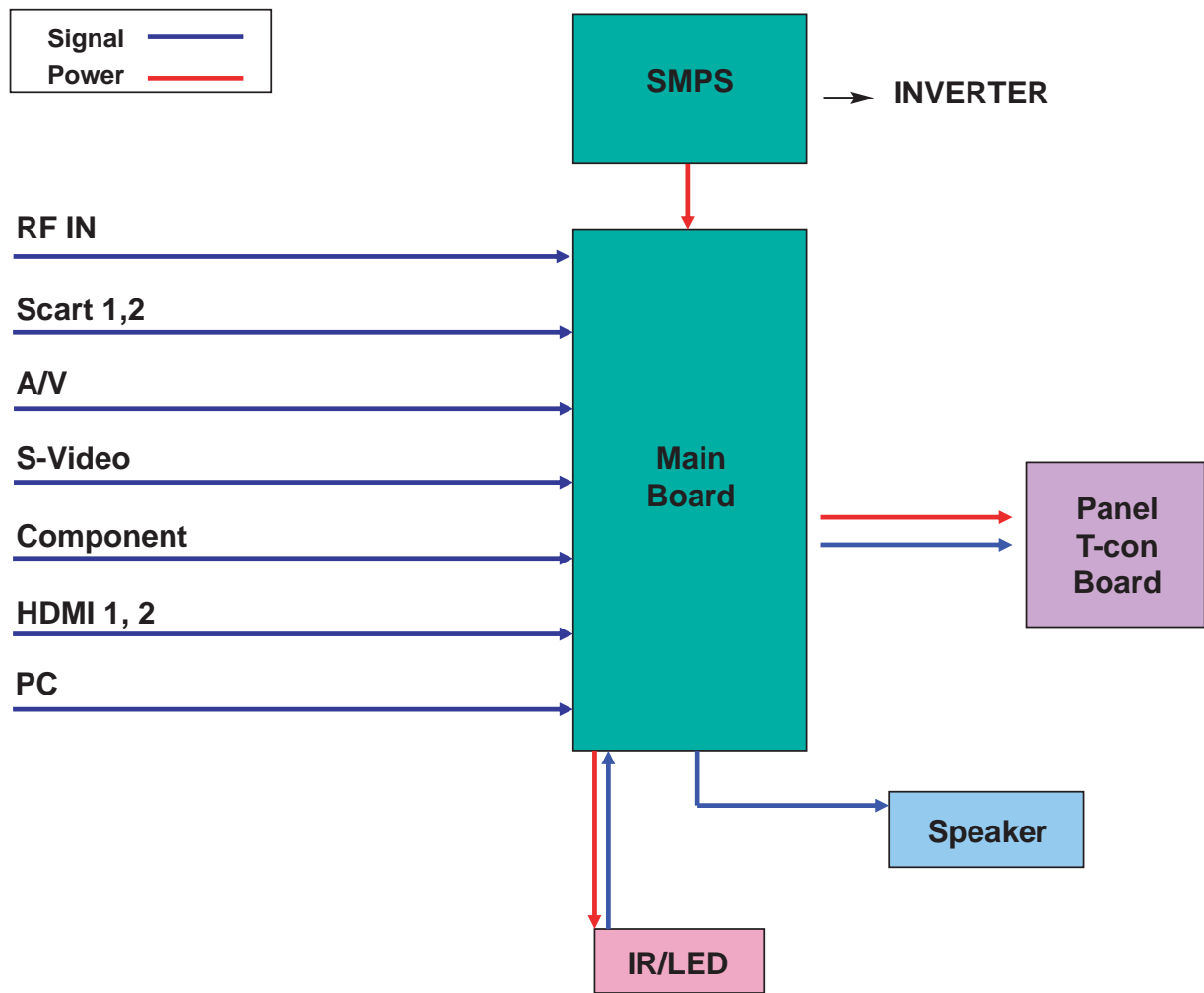
## 13 Circuit Descriptions

### 13-1 Block description



Bordeaux consists of three main blocks

1. Main board : Video signal processing
2. IP board : Power supply & Inverter
3. T-con board : LCD Panel control



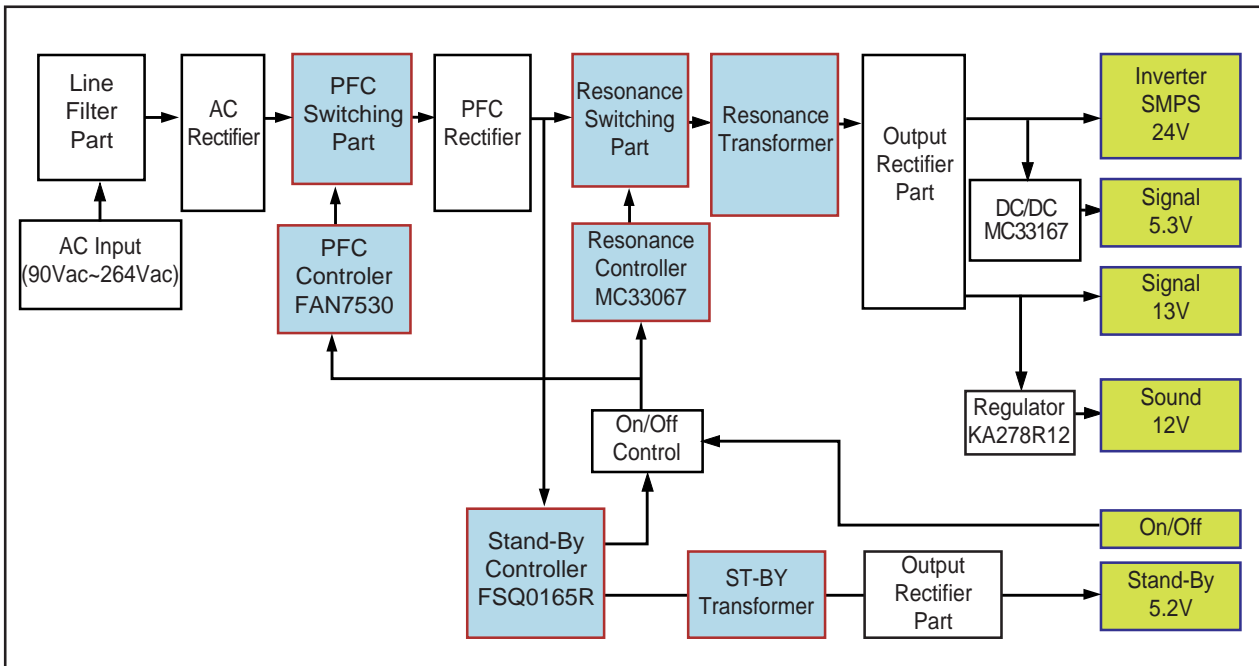
Bordeaux consists of three main blocks

1. Main board : Video signal processing
2. SMPS : Power supply
3. T-con board : LCD Panel control

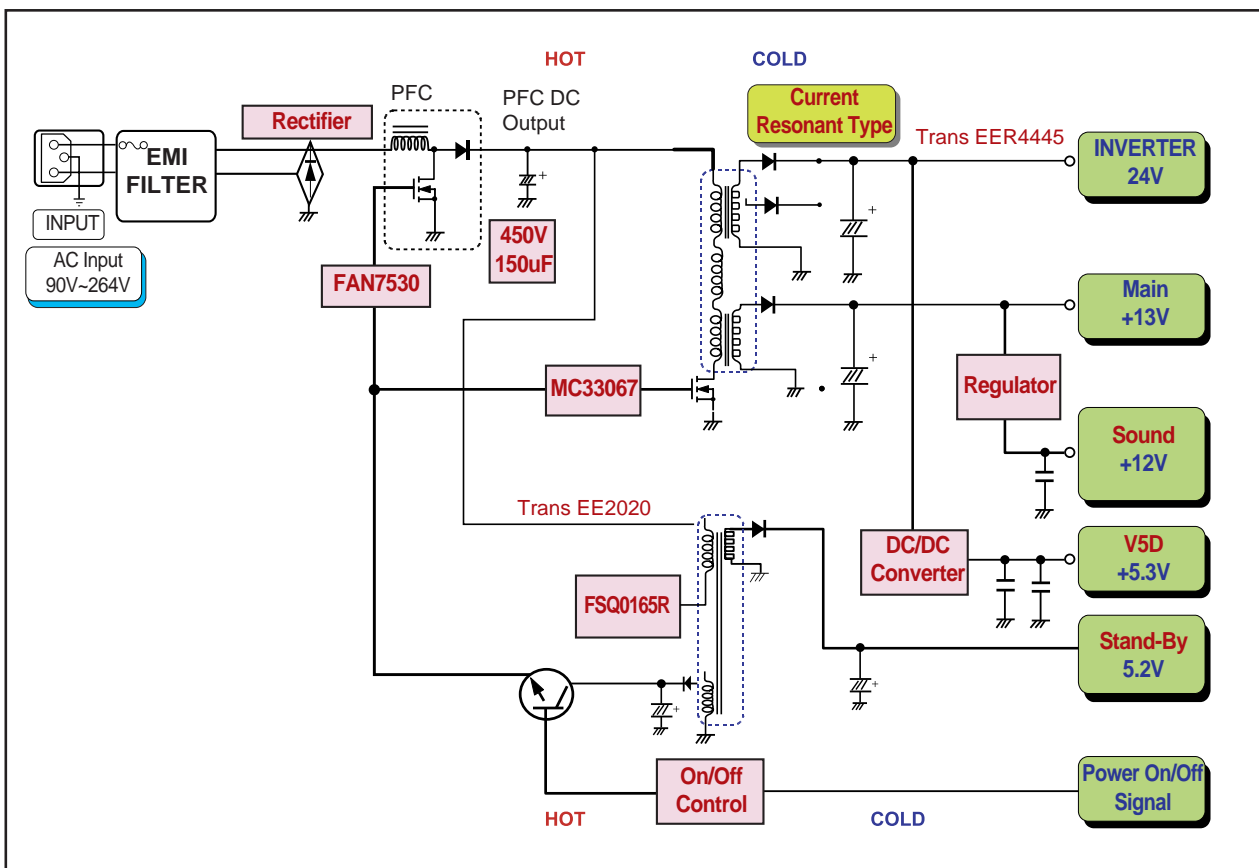
[illegible]

## 13-3 SMPS Board

### 13-3-1 32" Power Block



### 13-3-2 32" SMPS Diagram

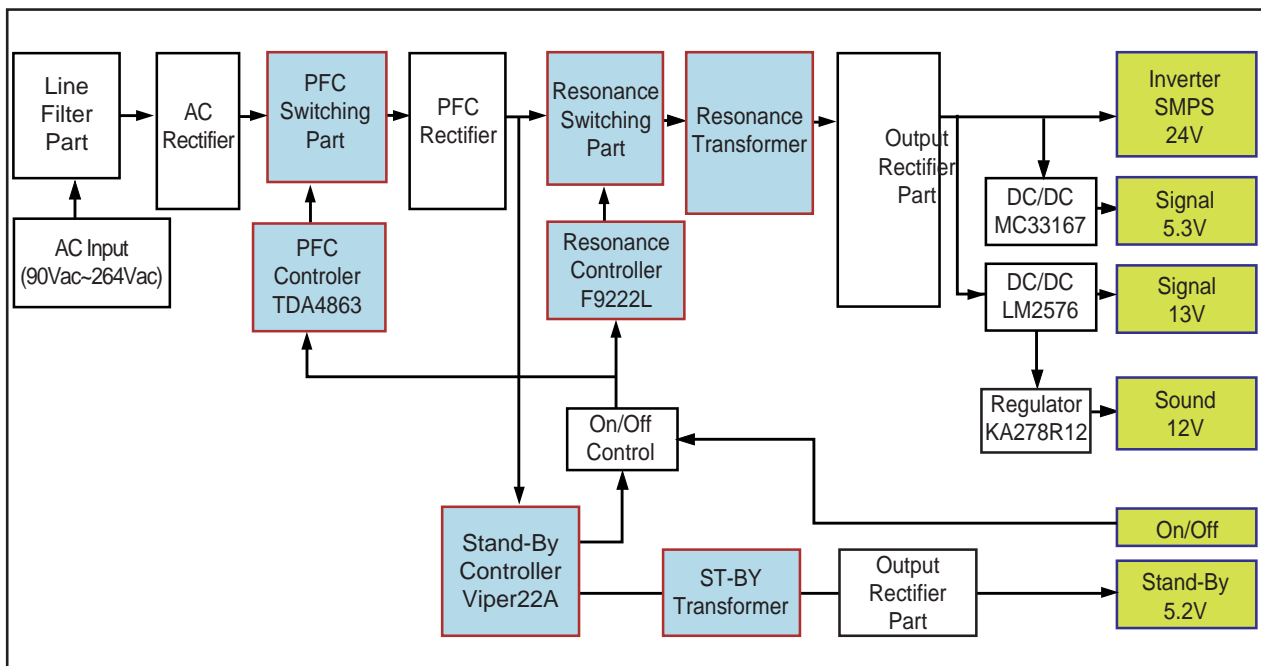


Output Name	Output Voltage			Output Current			Load Characteristics	PCB Loc.	Usage	Remark
	Normal	Regulation(%)	Variable Range	Min	Typical	Peak				
24V	24.5V	$\pm 4$	23.52V ~25.48V	0.1V	3.0V	4.0V	Pulsating	Main B'D	Drive	-
5.3V	5.3V	$\pm 5$	5.13V ~5.67V	0.1V	3.0V	5.0V	Constant	Main B'D	Drive, Logic, Buffer, Image Digital	-
13V	12.7V	$\pm 7$	11.9V ~13.7V	0.01V	0.3V	0.5V	Constant	Main B'D	Image Analog	-
Vamp	9.2V	$\pm 4$	8.83V ~9.57V	0.01V	0.3V	1.1V	Constant	Main B'D	Sound	-
ST-BY	8.0V	$\pm 5$	5.58V ~8.5V	0.1V	0.3V	0.6V	Constant	Main B'D	Stand-by	-

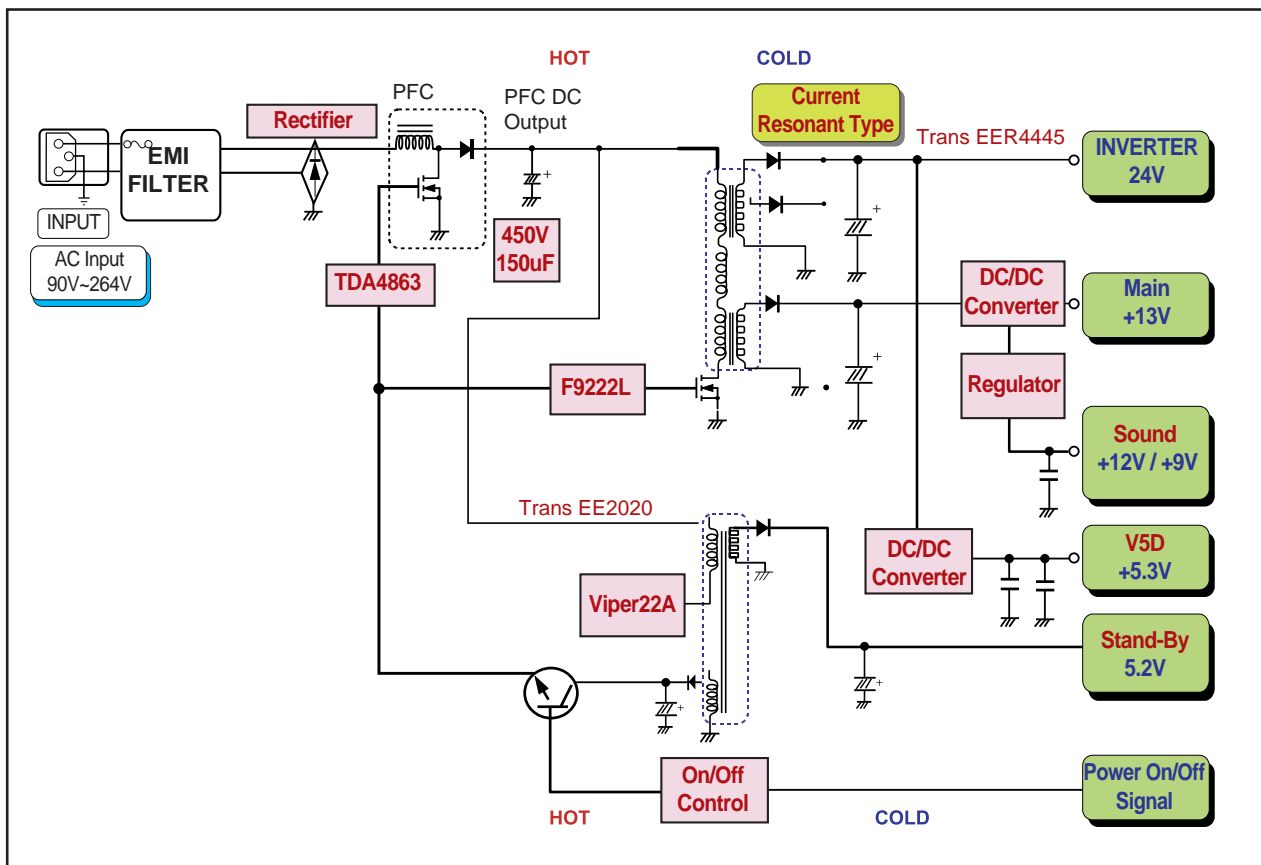


## 13 Circuit Descriptions

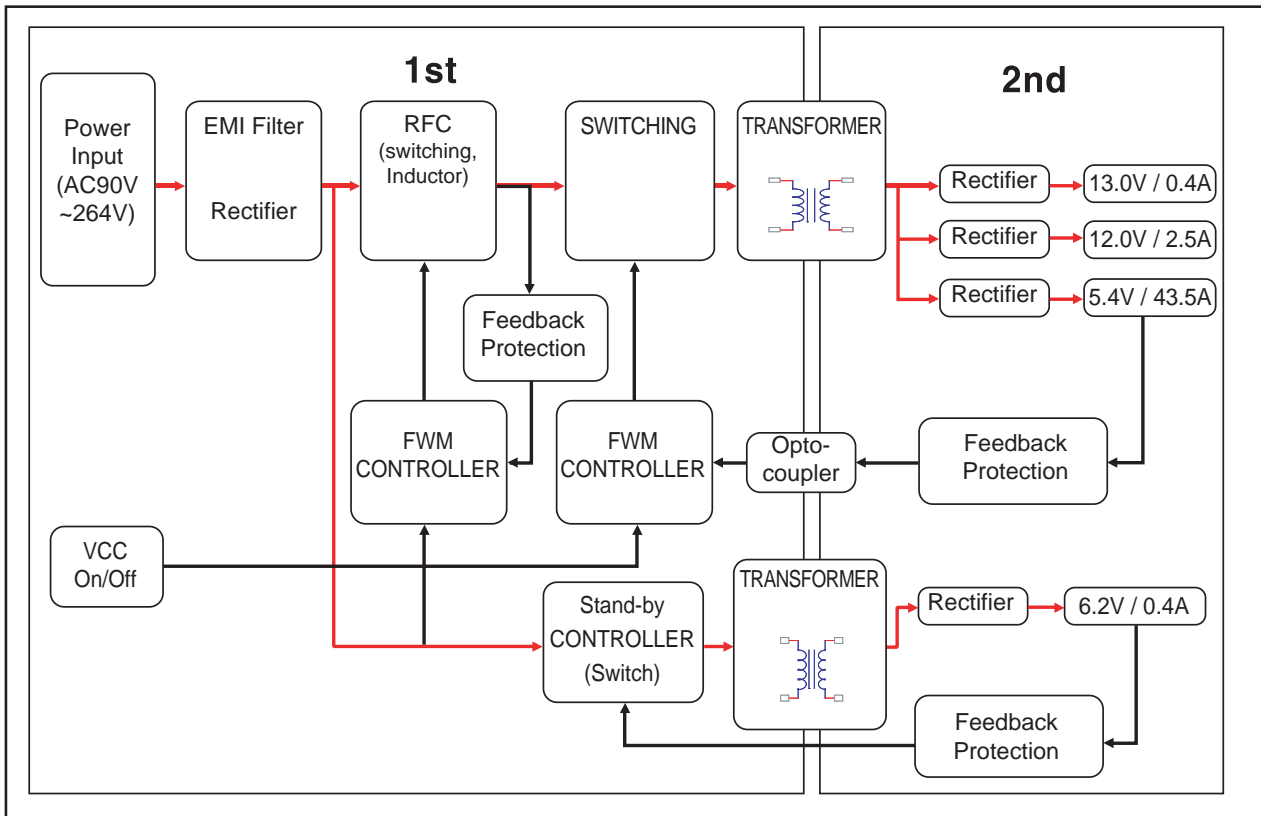
### 13-3-5 37" Power Block



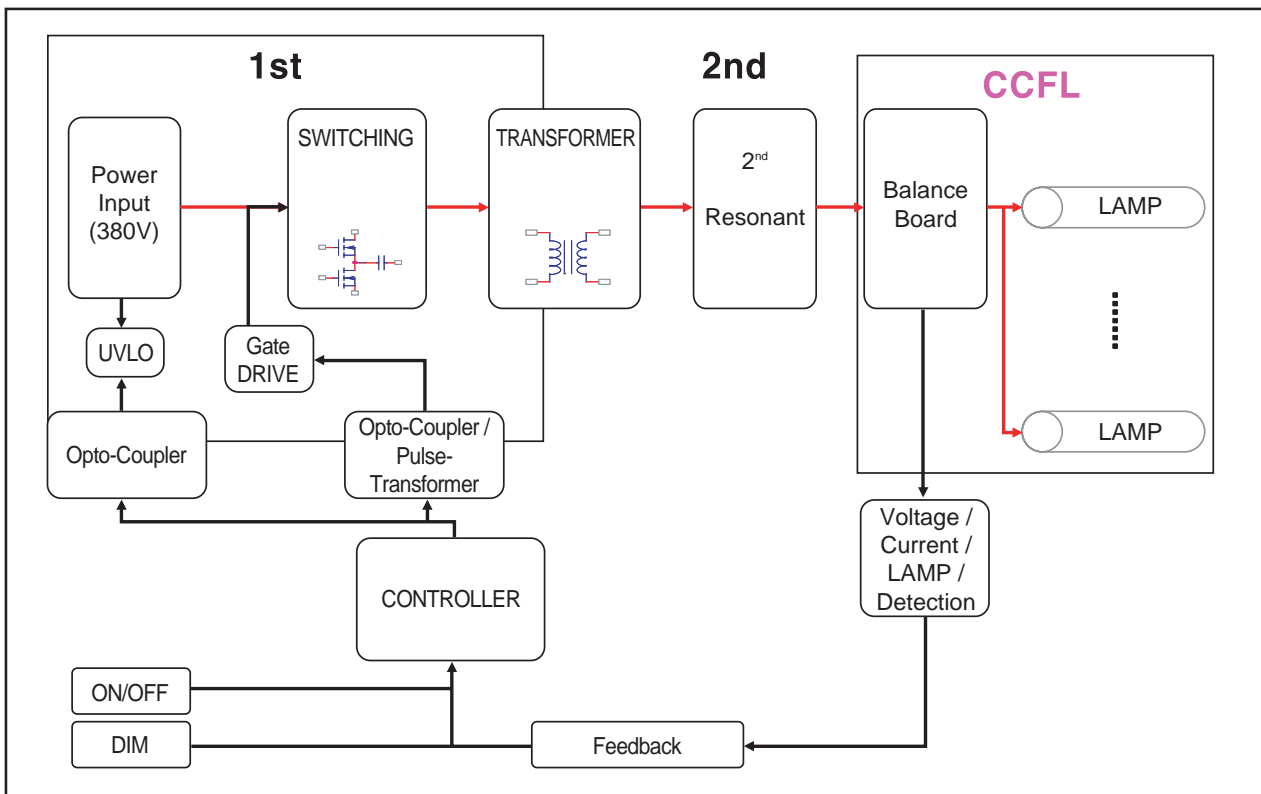
### 13-3-6 37" SMPS Diagram



## 13-3-7 40" IP Board



## 13-3-8 40" IP Board



## Memo

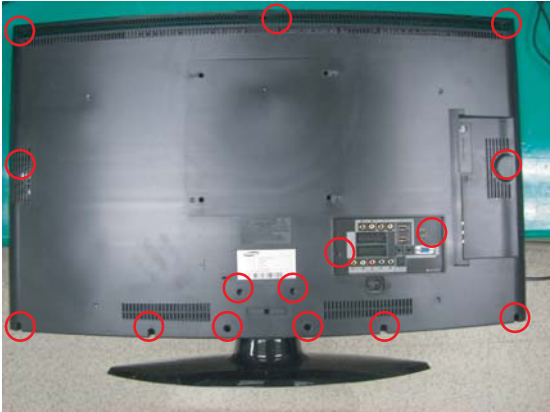
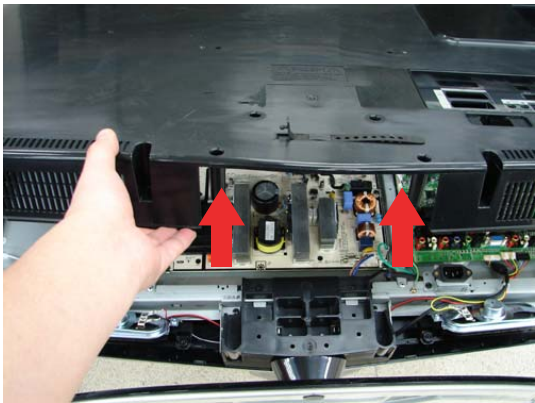
## 11 Disassembly and Reassembly

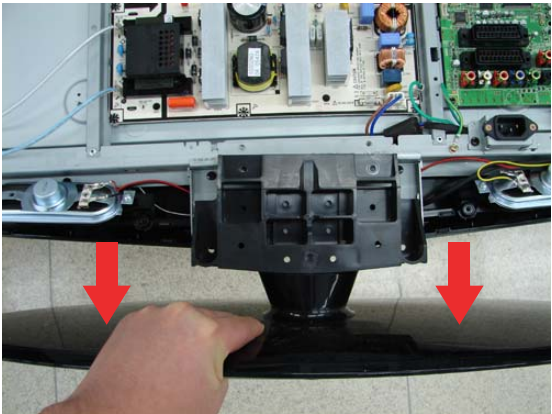
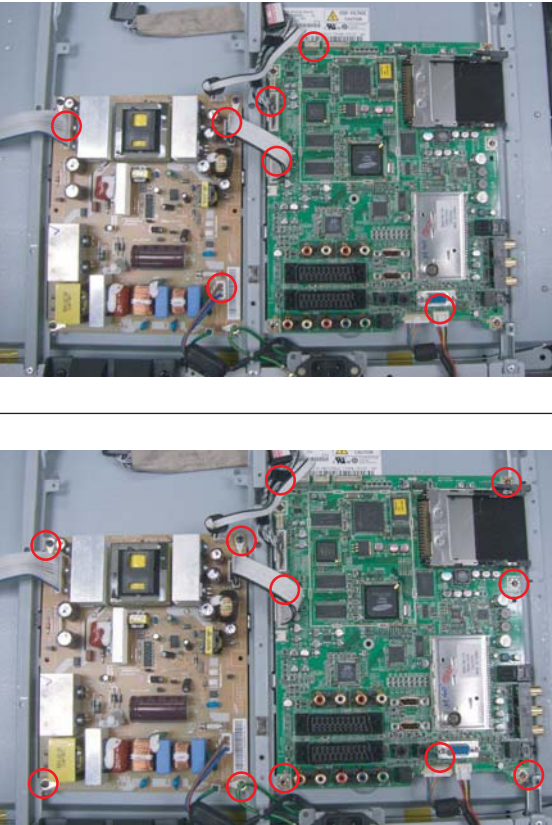
This section of the service manual describes the disassembly and reassembly procedures for the TFT-LCD TV.

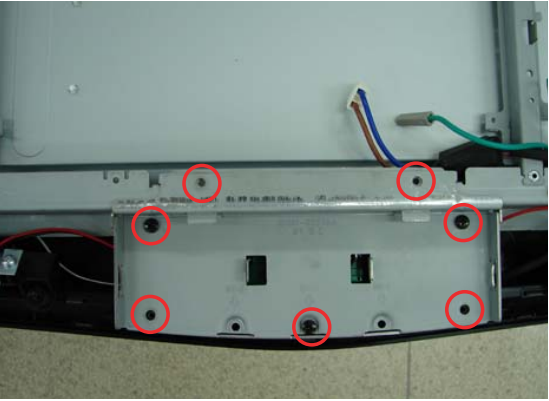

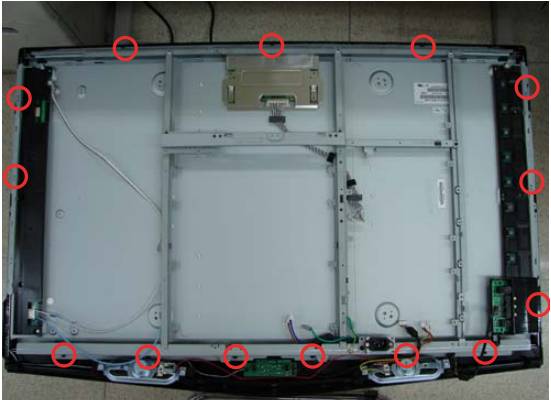
**⚠ WARNING : This monitor contains electrostatically sensitive devices.**  
**Use caution when handling these components.**

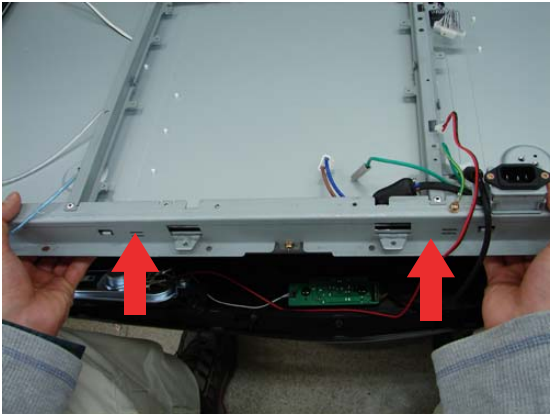

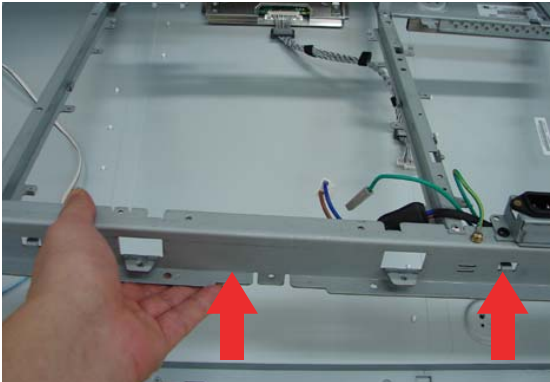

### 11-1 Disassembly

**⚠ 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.

Description	Picture Description
1. Place monitor face down on cushioned table. Remove 15 screws from the rear cover. Lift up the rear cover.	 

Description	Picture Description
2. Remove 3 screws from the stand.	
3. Disconnect cable from the boards. Remove 13 screws from the boards.	

Description	Picture Description
<p>4. Lift up the boards. Remove 7 screws from the stand BRKT.</p>	 A close-up photograph of the stand bracket assembly. Seven screws are circled in red, indicating they are to be removed. The assembly is mounted on a light-colored surface, and various colored wires (blue, green, red) are visible in the background.
<p>5. Lift up the stand BRKT. Remove screws from the Lcd panel.</p>	 A photograph showing a hand lifting the stand bracket. Two red arrows point upwards from the bottom corners of the bracket, indicating the direction of movement. The bracket is being lifted away from the main device.
	 A photograph showing the back of the LCD panel. Twelve screws are circled in red, indicating they are to be removed. The panel is shown from the back, revealing the internal structure and various components.

Description	Picture Description
<p>6. Lift up the Lcd panel. Remove 5 screws from the BRKT.</p>	
	
<p>7. Lift up the BRKT.</p>	
	

## 11-2 Reassembly

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Reassembly procedures are in the reverse order of disassembly procedures.



## Memo

## 6 Electrical Parts List

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

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

### 6-1 LE32S67BDX Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
		LE32S67BDX/XEH	LE32S67BD,N33A/32S60-GSA,32,LCD-TV,HUNGA		
0.1	M0001	BN90-00858V	ASSY COVER FRONT;32S73,EO,ABS+PMMA,HB,BK	1	S.N.A
..2	T0003	BN96-03628X	ASSY COVER P-FRONT;32S67,XEC,ABS+PMMA,,B	1	S.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	2	S.N.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	1	S.N.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	2	S.N.A
...3	M0081	6006-001096	SCREW-TAPTITE;BH,+WP,B,M4.0,L12,ZPC(BLK	4	S.N.A
...3	M0162	6502-001067	CABLE CLAMP;DAFC-1300,ID2.2,T5.2,NYLIN6/	2	S.N.A
...3	T0069	AA63-60001Q	SPACER-FELT,-,FELT,-,-,BLK,T0.35,-,150	1	S.N.A
...3	T0060	BN61-01655A	SPRING ETC;STS-304 SUS,D8,L12,T0.5	1	S.N.A
...3		BN63-01151D	FELT-NON WOVEN;SP20UO,FELT,T0.5,10,90	4	S.N.A
...3		BN63-01925A	FELT-VIBRATION;42D5,FELT,T0.35,10,370	6	S.N.A
...3	CCM1	BN63-02183E	COVER-SHEET;Rhcm,PE Vinyl,T0.05,750mm,20	0.734	S.N.A
...3	T0056	BN63-02413B	COVER-DECORATION;SONOMA,32,HIPS,HB,GR503	1	S.N.A
...4		BN81-00187B	RESIN;HIPS HB GR503,HF-1690H,G4309	0.141	S.N.A
...3	M0112	BN63-02551K	COVER-FRONT;32S73,EO,ABS+PMMA,HB,BK23,S/	1	S.N.A
...4		BN81-00204P	RESIN-HIGH GLOSS;SF-0505,K21294,ABS HB P	1.302	S.N.A
...3	T0059	BN64-00379A	INDICATOR LED;ROME-II,23,PC,CLEAR	1	S.N.A
...3	T0061	BN64-00453A	WINDOW-REMOCON;32R71,PC,V0,VIOLET,DIFFUS	1	S.N.A
...3	T0022	BN64-00467A	KNOB CONTROL;SONOMA26,32,40,ABS,-,-,V0	1	S.N.A
...4		BH83-00150P	CKD-ABS HB;HF-0680U,K2331	0.037	S.N.A
...3	T0023	BN64-00476F	KNOB POWER;07,SONOMA,26,32,40,HIPS,HB,GR	1	S.N.A
...4		AA81-00130A	RESIN-C/F;HIPS-HB,GR504	5.5	S.N.A
...3	T0054	BN64-00477A	KNOB-DECORATION;SONOMA26,32,40,ABS,HB,GR	1	S.N.A
...3	M0145	BN96-03466A	ASSY BOARD P-FUNCTION;SONOMA,SJ06-01-008	1	S.A
...3	T0175	BN96-04770A	ASSY SPEAKER P;8ohm,4pin,10W,Jasmine 32"	1	S.A
...3	M0146	BN96-05383C	ASSY BOARD P-POWER & IR;LNT4032HX/XAA,SJ	1	S.A
0.1	M0216	BN90-00967A	ASSY STAND;32T70,ABS+PMMA,HB,BK23,H/GLOS	1	S.N.A
..2	M0027	BN96-03698A	ASSY STAND P-BASE,-,SONOMA32,ABS+PMMA,HB	1	S.A
...3	T0081	6002-001294	SCREW-TAPPING;BH,+,,M4,L16,ZPC(BLK)	3	S.A
...3	M0081	6003-001239	SCREW-TAPTITE;FH,+,-,B,M4,L10,ZPC(WHT),S	6	S.A
...3	T0524	6902-000520	BAG PE;HDPE/NITRON(DOUBLE),T0.015/T0.5(D	1	S.N.A
...3		BN61-01812A	BRACKET-STAND BOTTOM;32 MILANO,SECC,T2.0	1	S.N.A
...3	T0920	BN61-02360A	GUIDE-STAND;SONOMA 32,HIPS VO,-,-,BK50	1	S.N.A
...4		BH83-00150P	CKD-ABS HB;HF-0680U,K2331	0.281	S.N.A
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.34	S.N.A
...3	T0004	BN63-02697A	COVER-STAND BASE;GML32,ABS+PMMA,HB,BK23,	1	S.N.A
...4		BN81-00204P	RESIN-HIGH GLOSS;SF-0505,K21294,ABS HB P	466.7	S.N.A
...3	T0132	BN73-00052A	RUBBER FOOT;ARES 17,CR Rubber Gray,T1.5	6	S.N.A
0.1	M0002	BN90-01303A	ASSY COVER REAR;32S73,EO,HIPS,HB,BK500,S	1	S.N.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,,M4,L16,ZPC(BLK)	2	S.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,,M4,L16,ZPC(BLK)	9	S.A
..2	M0013	BN96-05543A	ASSY COVER P-REAR;32S73,EO,,HIPS,HB,,BK5	1	S.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	4	S.N.A
...3	M0125	BN61-02950A	HOLDER-WALL;COMMON,ABS,VO(NT),-,-,BK50	4	S.N.A
...4		BN81-00204R	RESIN;NT-7200,K2901,ABS V0,BK19,-,-,-	4.48	S.N.A
...3		BN63-01151A	FELT-NON WOVEN;MM17NS,T0.5,393,10,BLACK	2	S.N.A
...3	M0006	BN63-03618A	COVER-REAR;SONOMA2.32,HIPS,HB,BK500,EO(I	1	S.N.A
...4		BN81-00199H	RESIN;HIPS HB,BK500,HF-1690H,K2901	1.83	S.N.A
...3	T0071	BN64-00555B	INLAY-TERMINAL;07,COMMON,EO(IDTV),PS SHE	1	S.N.A
...3	T0064	BN65-00002A	CLAMPER CORE;BORDEAUX,LDPE,-,-,BLK,-	1	S.N.A
0.1	M0017	BN91-01631F	ASSY CHASSIS;LE32S67BDX/*	1	S.N.A
..2	M0014	BN94-01354N	ASSY PCB MAIN-AMLC D VE;LE32S67BDX/*	1	S.A
...3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.25	S.N.A
...3	JA306	3701-001400	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,Ni	1	S.A
...3	CN906	3707-001081	CONNECTOR-OPTICAL;STRAIGHT,SPDIF	1	S.A
...3	JA3201_OP	3709-001346	CONNECTOR-CARD SLOT;68P,0.27mm,ANGLE,AU1	1	S.A
...3	CN330	3711-000058	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5MM,AN	1	S.A

## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...3	CN330	3711-004531	HEADER-BOARD TO CABLE;BOX,10P,1R,2mm,ANG	1	S.A
...3	CN330	3711-005606	HEADER-BOARD TO CABLE;BOX,30P,2R,2mm,STR	1	S.A
...3	CN330	3711-005842	HEADER-BOARD TO CABLE;BOX,24P,2R,2MM,STR	1	S.A
...3	JA330	3722-000143	JACK-PHONE;1P(VER),AG,BLK,ANGLE	1	S.A
...3	JA202_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A
...3	JA207_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A
...3	JA332	3722-001163	JACK-VHS;4P,AU,BLK,ANGLE	1	S.A
...3	JA333	3722-002360	JACK-PIN;3P,AU,GRN/BLU/RED,STRAIGHT	1	S.A
...3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002543	JACK-PIN;3P,Sn,RED/WHT/YEL,ANGLE	1	S.A
...3	CIS3	BN40-00112A	TUNER;TDHG6-K02A,TDHG6-K02A,PAL Hyper,18	1	S.A
...3	T0603	BN63-02494A	SHIELD-PCB MAIN;MOSEL 40",SPTT,T0.3,EURO	1	S.N.A
...3	CCMM1	BN73-00024D	SILICON/RUBBER;BORDEAUX,SILICON,28x28XT6	1	S.N.A
...3	HDCP	BN97-00688A	ASSY HDCP;BN46-00018A,PS-42V6S,D73A,GENE	1	S.N.A
...4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
...3	T0174	BN97-01642N	ASSY SMD;LE32S67BDX/*	1	S.N.A
...4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45##,96.5Sn/	4.559	S.N.A
...4	D1001_L	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
...4	D109	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
...4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D106	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D230	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D231	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D232	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D403	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D404	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D405	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D406	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8018	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8019	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8001	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8002	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8003	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8006	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8007	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8008	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8009	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8010	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8011	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8012	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8014	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8015_OP	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D0254	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
...4	D1101	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
...4	D8016	0403-000314	DIODE-ZENER;RLZJ9.1B,8.8-9.3V,500mW,LL-3	1	S.A
...4	D8017	0403-000314	DIODE-ZENER;RLZJ9.1B,8.8-9.3V,500mW,LL-3	1	S.A
...4	D207_EU	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D211	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D225_EU	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D306_L	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D307_L	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D321_L	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D331	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D332	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D333	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D334	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D335	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D390	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D490	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D504	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D8013	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D401	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D402	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
....4	D702	0403-001117	DIODE-ZENER;RLZ12B,11.44-12.03V,500mW,LL	1	S.A
....4	D105	0403-001425	DIODE-ZENER;BZX84C33,31-35V,350mW,SOT-23	1	S.A
....4	D0254	0404-001020	DIODE-SCHOTTKY;BAT54C,30V,200mA,SOT-23,T	1	S.A
....4	D201	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D202	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D203_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D204	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D205_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D206	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D212	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D213_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D214	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D215	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D216	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D217_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D218	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D219	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D221	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D222	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D223	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D224	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D226	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D227_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D302_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D303_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D308_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D309_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D310_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D322_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D323_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D324	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D325	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D328	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D329	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D330	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D409	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D410	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
....4	D408	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D502_L	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D503	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D701	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D8004	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	Q1102	0501-000434	TR-SMALL SIGNAL;KTC3875S-GR,NPN,150mW,SO	1	S.A
....4	Q1107	0501-000434	TR-SMALL SIGNAL;KTC3875S-GR,NPN,150mW,SO	1	S.A
....4	Q510_EU	0501-000434	TR-SMALL SIGNAL;KTC3875S-GR,NPN,150mW,SO	1	S.A
....4	Q1103	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q1104	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q505_EU	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q508_EU	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q8001	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q8002	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q102	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q103_L	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q104_L	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q504_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q506_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q507_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q509_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q301	0501-002184	TR-SMALL SIGNAL;KTD1304,NPN,200mW,SOT-23	1	S.A
....4	Q302	0501-002184	TR-SMALL SIGNAL;KTD1304,NPN,200mW,SOT-23	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A

## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	SA
....4	IC104	0801-002095	IC-CMOS LOGIC;74LCX245,TRANSCIEVER,TSSOP	1	SA
....4	IC104	0801-002172	IC-CMOS LOGIC;74LCX16244,BUFFER/LINE DRI	1	SA
....4	IC104	0801-002172	IC-CMOS LOGIC;74LCX16244,BUFFER/LINE DRI	1	SA
....4	IC104	0801-002172	IC-CMOS LOGIC;74LCX16244,BUFFER/LINE DRI	1	SA
....4	IC104	0801-002378	IC-CMOS LOGIC;74VHC04,INVERTER,SOP,14P,8	1	SA
....4	IC104	0801-002617	IC-CMOS LOGIC;7S08,2-INPUT AND GATE,SOT-	1	SA
....4	IC1101	0803-000307	IC-TTL;74LS157,2-TO-1 DATA SELECTOR,SOP,	1	SA
....4	IC1805	1001-000164	IC-ANALOG MULTIPLEX;74HC4052,CMOS,SOP,16	1	SA
....4	IC106	1001-001082	IC-VIDEO SWITCH;BA7657F,-,SOP,24P,300MIL	1	SA
....4	IC5005	1001-001109	IC-ANALOG SWITCH;FST3125M,BUS SWITCH & C	1	SA
....4	IC705	1001-001178	IC-AUDIO SWITCH;TEA6422D,AUDIO SWITCH ,S	1	SA
....4	IC509	1001-001211	IC-ANALOG MULTIPLEX;MM74HC4052MTC,DUALMU	1	SA
....4	IC106	1001-001443	IC-VIDEO SWITCH;PI3HDMI1212,HDMI TMDS S/	1	SA
....4	IC107	1002-001482	IC-D/A CONVERTER;WM8521H9GED/R,16bit,SOI	1	SA
....4	IC107	1002-001482	IC-D/A CONVERTER;WM8521H9GED/R,16bit,SOI	1	SA
....4	IC8002	1002-001509	IC-A/D&D/A CONVERTER;MT8291,24bit,LQFP,4	1	SA
....4	IC110	1006-001076	IC-DRIVER/RECEIVER;MAX232ECWE+T,SOP,16P,	1	SA
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	SA
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	SA
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	SA
....4	IC112	1103-001023	IC-EEPROM;24C08,8Kbit,1Kx8Bit,SOP,8P,5x4	1	SA
....4	IC112	1103-001385	IC-EEPROM;AT24C256,256Kbit,32Kx8,SOP,8P,	1	SA
....4	IC112	1103-001385	IC-EEPROM;AT24C256,256Kbit,32Kx8,SOP,8P,	1	SA
....4	IC113	1105-001712	IC-DRAM;HYB25D256163CE,DDR,256Mbit,16Mx1	1	SA
....4	IC502	1105-001715	IC-VIDEO RAM;M13S128168,K4D261638,GDDR,1	1	SA
....4	IC503	1105-001715	IC-VIDEO RAM;M13S128168,K4D261638,GDDR,1	1	SA
....4	DU410	1201-000166	IC-OP AMP;LM358,SOP,ST,8P,150MIL,DUAL,10	1	SA
....4	T0124	1201-002430	IC-POWER AMP;NTP-3000,QFN,56P,8x8mm,DUAL	1	SA
....4	T0087	1203-001293	IC-POSIFIXED REG.;033,TO-252,3P,6.5MIL,	1	SA
....4	IC012	1203-001465	IC-POSIAJUST REG.;317,TO-263,3P,-,PLAS	1	SA
....4	T0087	1203-001815	IC-POSIFIXED REG.;78M09,TO-252,3P,-,PLA	1	SA
....4	T0087	1203-002842	IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P	1	SA
....4	T0087	1203-002842	IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P	1	SA
....4	T0087	1203-002842	IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P	1	SA
....4	T0087	1203-002842	IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P	1	SA
....4	T0087	1203-002855	IC-POSIFIXED REG.;MC33269DTRK-5.0,DPRK,	1	SA
....4	T0087	1203-002974	IC-POSIFIXED REG.;AP1117D-25A,TO-252,3P	1	SA
....4	T0087	1203-002974	IC-POSIFIXED REG.;AP1117D-25A,TO-252,3P	1	SA
....4	IC012	1203-002995	IC-POSIAJUST REG.;AP1117D-A,TO-252,3P,	1	SA
....4	T0170	1203-003059	IC-SWITCH VOL. REG.;MP1583,SOIC,8P,4.9x3	1	SA
....4	IC012	1203-003544	IC-POSIAJUST REG.;RT9173BPS,SOP-8,8P,5	1	SA
....4	T0087	1203-003696	IC-POSIFIXED REG.;NCP1117DT18T5G,DPAK,3	1	SA
....4	T0087	1203-003703	IC-POSIFIXED REG.;AP1117E-18A,SOT-223,3	1	SA
....4	IC507	1203-004363	IC-VOL. DETECTOR;RT9818C-29PV,SOT-23,3P,	1	SA
....4	IC1104	1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	SA
....4	IC506_L	1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	SA
....4	IC508	1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	SA
....4	IC8001	1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	SA
....4	IC3101	1204-002697	IC-DECODER;STI5105,PBGA,324P,23x23mm,PLA	1	SA
....4	IC118	1204-002729	IC-VIDEO PROCESS;S4LF119X01,PBGA,208P,17	1	SA
....4	IC118	1204-002730	IC-VIDEO PROCESS;MT8202FG,BGA,388P,27x27	1	SA
....4	IC704	1205-003067	IC-RECEIVER;MT8293,LQFP,128P,14x14mm,PLA	1	SA
....4	R110	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
....4	R110	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
....4	R110	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
....4	R110	2007-000060	R-CHIP;100Kohm,1%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA

[illegible]

## 6 Electrical Parts List

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## 6 Electrical Parts List

[illegible]

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## 6 Electrical Parts List

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## 6 Electrical Parts List

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## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R110	2007-001139	R-CHIP;7.5Kohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-001179	R-CHIP;8.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-001240	R-CHIP;910ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-001240	R-CHIP;910ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-008467	R-CHIP;2.26Kohm,1%,1/10W,TP,1608	1	S.A
....4	RA606	2011-000002	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.A
....4	RA608	2011-000002	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.A
....4	RA609	2011-000002	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.A
....4	RA610	2011-000002	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.A
....4	R734	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA602	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA603	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA604	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA605	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA611	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA612	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA613	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA614	2011-000585	R-NETWORK;47ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA501	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA502	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA503	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA504	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA505	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA506	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA507	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA508	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA509	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA510	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA511	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA512	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	RA513	2011-000816	R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A
....4	R747	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	R748	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3105	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3107	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3110	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3112	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3114	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3115	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3205	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3206	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3207	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3208	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3209	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA3210	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA601	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA615	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA701	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A
....4	RA702	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A

[illegible]



## 6 Electrical Parts List

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## 6 Electrical Parts List

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## 6 Electrical Parts List

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## 6 Electrical Parts List

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Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C5037	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2mm	1	S.A
....4	C1002_L	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A
....4	C1003_L	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A
....4	C8034	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A
....4	C730	2402-001044	C-AL,SMD;100UF,20%,25V,GP,TP,8.3X8.3X6.3	1	S.A
....4	C104	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1127	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1130	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1134	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C120	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C126	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C127	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C161	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C177_FBE	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C180_FBE	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C3212	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C603	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8031	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8032	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8058	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8107	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1104	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C602	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C604	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1141	2402-001145	C-AL,SMD;47UF,20%,50V,GP,TP,6.3X7.7MM	1	S.A
....4	C1006_L	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C134	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C147	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C186_VT	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C8020	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C109	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C119_L	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C130	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C132	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C136	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C145	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C171	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C173	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C189	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C191	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C543_EU	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C198	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A
....4	C8050	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A
....4	C8068	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A
....4	C518_EU	2404-001341	C-TA,CHIP;10UF,##20%,16V,SCS,TP,3216	1	S.A
....4	C519_EU	2404-001341	C-TA,CHIP;10UF,##20%,16V,SCS,TP,3216	1	S.A
....4	C540_EU	2404-001341	C-TA,CHIP;10UF,##20%,16V,SCS,TP,3216	1	S.A
....4	C541_EU	2404-001341	C-TA,CHIP;10UF,##20%,16V,SCS,TP,3216	1	S.A
....4	C159	2409-001029	C-ORGANIC,SMD;120uF,20%,6.3V,WT,TP,8.3x8	1	S.A
....4	C111	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C114	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C182_FBE	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A



## 6 Electrical Parts List

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Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	JA402	3701-001367	CONNECTOR-HDMI;19P,2R,FEMALE,SMD,AU	1	S.A
....4	T0077	BN41-00879B	PCB MAIN;LILY iDTV,FR-4,4,1.0,1.6T,192*2	1	S.N.A
....4	M0018	BN97-01388A	ASSY MICOM;T-BDXPDEU00-1012.0,N30A,2007.	1	S.N.A
....5	IC115	1107-001415	IC-FLASH MEMORY;29W320D,4Mx8/2Mx16Bit,TS	1	S.N.A
....4	M0018	BN97-01641A	ASSY MICOM;T-SNM2PEUMD-2004,N33A,2007010	1	S.N.A
....5	IC115	1107-001453	IC-FLASH MEMORY;-;16Mbit,2Mx8/1Mx16,TSOP	1	S.N.A
....4	Q1001_L	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1003_L	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q107	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1101	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1105	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1106	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q202	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q203	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q205	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q206	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q401	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q402	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q404	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q501	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q5010	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q8003	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	S.A
0.1		BN91-01632C	ASSY SHIELD-SND;LE32S67BDX/*	1	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	1	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	4	S.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	4	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	8	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	4	S.N.A
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(WHT),SW	1	S.N.A
..2	T0073	AA63-01200A	GASKET-EMI;42S5,Ni,T0.1,W40,L70,Fabric	1	S.N.A
..2	T0076	BN39-00615D	CBF HARNESS;BORDEAUX,1617#22,3P,1P,RING,	1	S.A
..2	M2893	BN39-00802A	LEAD CONNECTOR;LE32R86BDX,UL1007#26,UL/C	1	S.A
..2	M2893	BN39-00890A	LEAD CONNECTOR;LE32R86BDX,UL1571#30,-,30	1	S.A
..2	M2893	BN39-00918B	LEAD CONNECTOR;BORDEAUX PLUS,UL1007#26,U	1	S.A
..2	M0114	BN61-02500A	HOLDER-WIRE;NYLON6.6,NATURAL	2	S.N.A
..2	M0254	BN61-03025E	HOLDER-SIDE AV;23S81,E0,HIPS,V0,-,-,BK	1	S.N.A
..3		BN81-00199H	RESIN;HIPS HB,BK500,HF-1690H,K2901	0.021	S.N.A
..2	M0115	BN61-03303A	BRACKET-STAND LINK;SNIPER 32,SECC,T1.6	1	S.N.A
..2	M0107	BN63-03039A	SHIELD-COVER;MURANO40,PCM,T0.5,IDTV	1	S.N.A
..2	T0447	BN96-04681A	ASSY BRACKET P-PANEL;-;32R81,-,-,-,AM,	1	S.N.A
..3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.A
..3	M0131	AA63-01437A	GASKET;Bordeaux,Conductive Fabric,20mm,9	1	S.N.A
..3	M0131	AA63-01438A	GASKET;Bordeaux,Conductive Fabric,7mm,8m	1	S.N.A
..3		BN61-02199B	BRACKET-GUIDE POWER;Bordeaux 32,SECC,T1.	1	S.N.A
..3		BN61-02200A	BRACKET-GUIDE POWER L;Bordeaux 32,SECC,T	1	S.N.A
..3	M0146	BN61-02970A	BRACKET-PANEL TOP;32 BORDEAUX PLUS,SECC,	1	S.N.A
..3		BN61-02974A	BRACKET-PANEL BOTTOM;32 BORDEAUX PLUS,SE	1	S.N.A
..3		BN61-02978A	BRACKET-GUIDE MAIN;32 BORDEAUX PLUS,SECC	1	S.N.A
..3	M0131	BN63-03327A	GASKET;BORDEAUX PLUS,Conductive Fabric,2	1	S.N.A
..2	M2893	BN39-00603M	LEAD CONNECTOR;LE40R73BDX,UL1007#26,UL/C	1	S.A
..2	M0146	BN61-03265A	BRACKET-PANEL SIDE;JASMINE,SECC 1.2,AMLC	4	S.N.A
..2	T0764	BN44-00192A	SMPS-LCDTV;MK32P3,DYREL,AC/DC,180W,AC100	1	S.A
0.1		BN91-01702A	ASSY LCD-AMLCD;LNT3232HX/*	1	S.N.A
..2	M0215	BN07-00453A	LCD-PANEL;LTA320WT-L06,8bit,32inch,16.7M	1	S.A
0.1	M0113	BN92-01703A	ASSY P/MATERIAL;32T70,SONOMA	1	S.N.A
..2	T0524	6902-000519	BAG PE;HDPE/NITRON(DOUBLE),T0.015/T0.05(	1	S.N.A
..2	T0003	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	6.35	S.N.A
..2	T0214	BN74-00008A	TAPE-OPP MASKING;OPP-2,T0.05,W100,L800M,	2.25	S.N.A
0.1	M0019	BN92-01981Y	ASSY LABEL;LN52M71BD	1	S.N.A
0.1	M0003	BN92-02635B	ASSY BOX;32T71,E0	1	S.N.A
..2		BN69-01312Q	BOX-SET,OUT;32S62,CB,DY-01,A,YEL,A1,EURO	1	S.N.A

## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0.1	M0045	BN92-02733B	ASSY ACCESSORY;LE32S67BDX/XEH	1	S.N.A
..2	M0045	BN96-05617B	ASSY ACCESSORY;LE32S67BDX/XEH,-,-,-,-,-	1	S.A
...3	T0268	3903-000145	CBF-POWER CORD;DT,EU,FP3/YES,U(IEC C13-R	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	2	S.N.A
...3	T0210	AA68-03242K	MANUAL FLYER-01,SAFETY GUIDE;comm,Samsun	1	S.N.A
...3		AA68-03575H	MANUAL-02,REGISTRATION CARD;XEH,Hungaria	1	S.N.A
...3	T0074	BN59-00611A	REMOCON;JASMINE , LILY,TM87C,SAMSUNG 28p	1	S.A
...3		BN63-01798A	CLOTH-CLEAN;RE40**,CLOTH,180,200,RHCM	1	S.N.A
...3	T0531	BN63-02415B	COVER-BOTTOM;SONOMA,32,HIPS,HB,BK500	1	S.N.A
....4		BN81-00199H	RESIN;HIPS HB,BK500,HF-1690H,K2901	36.3	S.N.A
...3		BN68-00514E	MANUAL FLYER-00,WARRANTY CARD;comm,Samsu	1	S.N.A
...3	M0156	BN68-01147H	MANUAL USERS-01;COMM,SAMSUNG,E/H/P/G/B/S	1	S.N.A
...3	M0126	BN69-01086A	BOX ACCESSORY-00;COMM,W573,D632,LCD,200g	1	S.N.A
...3	M0045	BN96-01800A	ASSY ACCESSORY;ROME32,-,-,-,-,SCREW	1	S.N.A
....4	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	4	S.A
....4	ACCESSORY	6902-000128	BAG ZIPPER;LDPE,T0.05,W200,L150,TRP,8,2-	1	S.N.A

## 6-2 LE37S67BDX Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LE37S67BDX/XEC	LE37S67BD,N33A/37S60-GSA,37,LCD-TV,SPAIN	0	
0.1	M0001	BN90-01030J	ASSY COVER FRONT;37S73,EO,ABS+PMMA,HB,BK	1	S.N.A
.2	M0081	6006-001096	SCREW-TAPTITE;BH,+,WP,B,M4.0,L12,ZPC(BLK	4	S.N.A
.2	T0003	BN96-04044K	ASSY COVER P-FRONT;37S73,EO,ABS+PMMA,HB,	1	S.A
.3	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	2	S.N.A
.3	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	1	S.N.A
.3	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	2	S.N.A
.3	M0162	6502-001067	CABLE CLAMP;DAFC-1300,ID2.2,T5.2,NYLIN6/	2	S.N.A
.3	T0069	AA60-00171L	SPACER-FELT;46L3,FELT,460,T0.5,10	2	S.N.A
.3	T0060	BN61-01655A	SPRING ETC;STS-304 SUS,D8,L12,T0.5	1	S.N.A
.3	CCM1	BN63-02183H	COVER-SHEET;Rhcm,PE Vinyl,T0.05,1300mm,2	1.983	S.N.A
.3		BN63-02224A	FELT-VIBRATION;63P5,FELT,T0.5,850,10	2	S.N.A
.3	M0112	BN63-02747G	COVER-FRONT;37S73,EO,ABS+PMMA,HB,BK23,S/	1	S.N.A
.3	T0056	BN63-02749B	COVER-DECORATION;SONOMA,37,HIPS,HB,GR503	1	S.N.A
.3	T0059	BN64-00379A	INDICATOR LED;ROME-II,23,PC,CLEAR	1	S.N.A
.3	T0061	BN64-00453A	WINDOW-REMOCON;32R71,PC,V0,VIOLET,DIFFUS	1	S.N.A
.3	T0022	BN64-00467A	KNOB CONTROL;SONOMA26,32,40,ABS,-,-,V0	1	S.N.A
.3	T0023	BN64-00476F	KNOB POWER;07,SONOMA,26,32,40,HIPS,HB,GR	1	S.N.A
.3	T0054	BN64-00477A	KNOB-DECORATION;SONOMA26,32,40,ABS,HB,GR	1	S.N.A
.3	M0146	BN96-03438A	ASSY BOARD P-POWER & IR;BORDEAUX2,CT5000	1	S.A
.3	M0145	BN96-03466A	ASSY BOARD P-FUNCTION;SONOMA,SJ06-01-008	1	S.A
.2	T0175	BN96-04770B	ASSY SPEAKER P;8ohm,4pin,10W,600/1250mm,	1	S.A
0.1	M0002	BN90-01304A	ASSY COVER REAR;37S73,EO,HIPS,HB,BK500,S	1	S.N.A
.2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	3	S.A
.2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	12	S.A
.2	M0013	BN96-05544A	ASSY COVER P-REAR;37S73,EO,HIPS,HB,BK500	1	S.A
.3	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	4	S.N.A
.3	M0006	BN63-03619A	COVER-REAR;SONOMA2,37,HIPS,HB,BK500,EO(I	1	S.N.A
.3	T0071	BN64-00555B	INLAY-TERMINAL;07,COMMON,EO(IDTV),PS SHE	1	S.N.A
.3	T0064	BN65-00002A	CLAMPER CORE;BORDEAUX,PP,V0,BLK	1	S.N.A
.3	T0101	BN61-03348A	BRACKET-WALL;LCD TV 32",SECC T1.6	4	S.N.A
0.1	M0216	BN90-01306A	ASSY STAND;40S73,ABS+PMMA,HB,BK23,H/GLOS	1	S.N.A
.2	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	4	S.A
.2	M0013	BN96-05546A	ASSY STAND P-BASE;40S73,ABS+PMMA,HB,BK23	1	S.A
.3	T0081	6002-001294	SCREW-TAPPING;BH,+,M4,L16,ZPC(BLK)	7	S.A
.3	M0081	6003-001239	SCREW-TAPTITE;FH,+,B,M4,L10,ZPC(WHT),S	11	S.A
.3		BN61-01811A	BRACKET-STAND BOTTOM;40 MILANO,SECC,T3.0	1	S.N.A
.3	T0920	BN61-03300A	GUIDE-STAND;SNIPER,40,ABS,V0,-,-,BK500	1	S.N.A
.3	CCM1	BN63-02183E	COVER-SHEET;Rhcm,PE Vinyl,T0.05,750mm,20	0.45	S.N.A
.3	T0004	BN63-02698A	COVER-STAND BASE;GML40,ABS+PMMA,HB,BK23,	1	S.N.A
.3	T0132	BN73-00052A	RUBBER FOOT;ARES 17,SILICON,DIA 17 * T1.	9	S.N.A
0.1		BN91-01561B	ASSY LCD-CPT;LE37S62BX/*CPT	1	S.N.A
.2	M0215	BN07-00424A	LCD-PANEL;CLAA370WA03SL,8bit,37inch,16.7	1	S.A
0.1	M0017	BN91-01631C	ASSY CHASSIS;LE37S67BDX/XEC	1	S.N.A
.2	M0014	BN94-01354C	ASSY PCB MAIN;LE37S67BDX/XEC	1	S.A
.3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.25	S.N.A
.3	JA306	3701-001400	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,Ni	1	S.A
.3	CN906	3707-001081	CONNECTOR-OPTICAL;STRAIGHT,SPDIF	1	S.A
.3	CN330	3711-000058	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5MM,AN	1	S.A
.3	CN906	3711-004182	CONNECTOR-HEADER;BOX,10P,1R,2MM,STRAIGHT	1	S.A
.3	CN330	3711-004379	HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,STRA	1	S.A
.3	CN330	3711-004386	HEADER-BOARD TO CABLE;BOX,3P,1R,2mm,ANGL	1	S.A
.3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	S.A
.3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	S.A
.3	CN330	3711-005606	HEADER-BOARD TO CABLE;BOX,30P,2R,2mm,STR	1	S.A
.3	CN330	3711-005842	HEADER-BOARD TO CABLE;BOX,24P,2R,2MM,STR	1	S.A
.3	JA330	3722-000143	JACK-PHONE;1P(VER),AG,BLK,ANGLE	1	S.A
.3	JA202_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A
.3	JA207_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A
.3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A
.3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A
.3	JA332	3722-001163	JACK-VHS;4P,AU,BLK,ANGLE	1	S.A
.3	JA333	3722-002360	JACK-PIN;3P,AU,GRN/BLU/RED,STRAIGHT	1	S.A
.3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
.3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
.3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
.3	JA333	3722-002543	JACK-PIN;3P,Sn,RED/WHT/YEL,ANGLE	1	S.A
.3	CIS3	BN40-00112A	TUNER;TDHG6-K02A,TDHG6-K02A,PAL Hyper,18	1	S.A

## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...3	T0603	BN63-02494A	SHIELD-PCB MAIN;MOSEL 40",SPTE,T0.3,EURO	1	S.N.A
...3	SUB06	BN73-00024C	SILICON/RUBBER-BERGQUIST;VENUS 32.40",SI	1	S.N.A
...3	CIS1	BN97-00688A	ASSY HDCP;BN46-00018A,PS-42V6S,D73A,GENE	1	S.N.A
...4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
...3	T0174	BN97-01642C	ASSY SMD;LE37S67BDX/XEC	1	S.N.A
...4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45\$,96.5Sn/	0.108	S.N.A
...4	D1001_L	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
...4	D109	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
...4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D106	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1472_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1473_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1474_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1475_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1476_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1477_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1478_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1479_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D403_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D404_OP	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D405	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D406	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8018	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8019	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8020	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8021	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8022	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8023	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8024	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8025	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8026	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8027	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8001	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8002	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8003	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8006	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8007	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8008	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8009	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8010	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8011	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8012	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8014	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8015	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D0254	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
...4	D1101	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
...4	D8016	0403-000314	DIODE-ZENER;RLZJ9.1B,8.8-9.3V,500MW,LL-3	1	S.A
...4	D8017	0403-000314	DIODE-ZENER;RLZJ9.1B,8.8-9.3V,500MW,LL-3	1	S.A
...4	D1452_OP	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D1453	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D207_EU	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D211	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D225_EU	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D306_L	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D307_L	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D321_L	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D331	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D332	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D333	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D334	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D335	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D390	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D490	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D504	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D8013	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500MW,LL-	1	S.A
...4	D401_OP	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500MW,LL-	1	S.A
...4	D402	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500MW,LL-	1	S.A
...4	D105	0403-001425	DIODE-ZENER;BZX84C33,31-35V,350mW,SOT-23	1	S.A
...4	D0254	0404-001020	DIODE-SCHOTTKY;BAT54C,30V,200mA,SOT-23,T	1	S.A
...4	D201	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
...4	D202	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D203_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D204	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D205_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D206	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D208	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D209	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D210	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D212	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D213_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D214	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D215	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D216	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D217_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D218	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D219	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D221	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D222	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D223	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D224	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D226	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D227_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D302_L	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D303_L	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D308_L	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D309_L	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D310_L	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D322_L	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D323_L	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D324	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D325	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D328	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D329	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D330	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D338	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D339	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D409	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D410	0406-001172	DIODE-TVS;CDS3C30GTH,48V,SMD	1	S.A
....4	D408	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D502_L	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D503	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D701	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D8004	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	Q505_EU	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q508_EU	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q8001	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q8002	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150MW,SOT-23	1	S.A
....4	Q1001_L	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1003_L	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q107	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1101	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1105	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q1106	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q202	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q203	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q205	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q206	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q401_OP	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q402	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q404	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q501	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q5010	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q8003	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q510_EU	0501-000344	TR-SMALL SIGNAL;KSC1623-G,NPN,200mW,SOT-	1	S.A
....4	Q1102	0501-000434	TR-SMALL SIGNAL;KTC3875S-GR,NPN,150mW,SO	1	S.A
....4	Q1107	0501-000434	TR-SMALL SIGNAL;KTC3875S-GR,NPN,150mW,SO	1	S.A
....4	Q1103	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q1104	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q102	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q103	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q104_L	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q504_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q506_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q507_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A



## 6 Electrical Parts List

[illegible]

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R1020_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1021_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1022_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1025_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1033_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1037_OP	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1046_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1047_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1100	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1115	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1119	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1121	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1135	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1150	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1153	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1156	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1170	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1171	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R1176	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R141_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R157	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R222	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R231	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R233	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R239	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R260_EU	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R306_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R307_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R308_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3102	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3103	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3107	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3122	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3123	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3124	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3125	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3126	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3127	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3128	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3129	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3130	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3133	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3203	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3223	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3224	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3225	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3226	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3228	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3229	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3232	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3244	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3247	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3248	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3249	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3251	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3252	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3257	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3258	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3260	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3262	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3264	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R3265	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R330_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R331_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R332_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R333_L	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R398	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R421_OP	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R422	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R555	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R556	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R616	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA



## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R618	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R641_OP	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R642	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R644	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R648	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R649	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R663	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R664	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R671_OP	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R746	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R8027	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R8084	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R8092	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R8098	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R8099	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R906_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R908_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R909_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R914_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R915_FBE	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R922_TEST	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R923_TEST	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R924_TEST	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R931_FFL	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R932_FFL	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R1034_L	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1113	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1125	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1126	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1127	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1128	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1129	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1130	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1131	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1132	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1133	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1134	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R146	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R147	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R366	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R374	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R617	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R620	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R621	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R622	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R624	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R625	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R643	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R738	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R739	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R740	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R741	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R742	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R743	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R744	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R745	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A
....4	R1109	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1111	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R1112	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R216	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R220	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R227	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R237	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R262	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R301_L	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R302_L	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R348	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R351	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R352	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R355	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R365	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R367	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R386	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R388	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R389	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R394	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R395	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R405_OP	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R406	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R407_OP	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R408	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R1043_L	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R1048_L	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R1101	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R1102	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R1106	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R1118	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R1143	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R1172	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R1173	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R155	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R156	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R202_EU	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R204_EU	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R214	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R243	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R245	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R246	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R247	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R252	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R259	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R303_L	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3204	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3205	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3206	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3207	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3230	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3233	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3253	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3254	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3255	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3259	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3261	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3263	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3266	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R3267	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R326_L	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R329_L	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R345	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R372	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R387	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R390	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R393	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R481	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R504	2007-000074	R-CHIP;100ohm,5%,1/10W		

## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R678	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R680	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R691	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R693	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R736	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R737	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R755	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R756	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8046	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8047	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8048	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8049	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8065_EU	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8066_EU	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8068_EU	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8071	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8082	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8083	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R8093_EU	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R916_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R917_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R918_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R919_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R920_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R921_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R926_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R927_FBE	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R1177	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	SA
....4	R1180	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	SA
....4	R542_EU	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	SA
....4	R149	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	SA
....4	R3250	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	SA
....4	R1040_L	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R1108	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R391	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R392	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R525_EU	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R529_EU	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R533_EU	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R534_EU	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R535_EU	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R539	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R8055	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R8057	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R8070_EU	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R8076_EU	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	SA
....4	R1044_L	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R1045_L	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R1107	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R1142	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R142	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R143	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R206	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4					

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R396	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R397	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R411_OP	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R412	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R413_OP	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R414	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R453	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R484	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R486	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R5043	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R536_EU	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R538	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R551_EU	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R602	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R647	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R674	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R694	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R750	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R751	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R752	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R753	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R754	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R8044	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R8045	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R377	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	SA
....4	R378	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	SA
....4	R1041_L	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R8018	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R8091	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R1036_L	2007-000083	R-CHIP;3Kohm,5%,1/10W,TP,1608	1	SA
....4	R1039_L	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1049_L	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1050_L	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1051_L	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R108	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1104	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1105	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R112_L	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1138	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1139	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1141	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1144	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1145	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1147	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1160	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1161	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1162	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1163	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1168	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1169	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1181	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1182	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R1183	2007-000084	R-CHIP		

## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R416	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R460	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R501	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R502	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R503	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R522	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R540	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R552_EU	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R604	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R605	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R615	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R619	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R626	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R627	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R631	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R665	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R672	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R673	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R688	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R695	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R696	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R735	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R8031	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R8032	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R8061	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R8063	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R8067	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R8069	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R8075	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R8078	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R903_FBE	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R905_FBE	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R907_FBE	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R928_FBE	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R929_FBE	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA
....4	R103	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1038_L	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R104	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1116	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R114	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1163_TEST	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1164	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1164_TEST	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1165	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1166	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1167	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1178	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R1179	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R3120	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R3121	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R3131	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R3201	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R3202	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA</

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R612	2007-000091	R-CHIP;12Kohm,5%,1/10W,TP,1608	1	S.A
....4	R613	2007-000091	R-CHIP;12Kohm,5%,1/10W,TP,1608	1	S.A
....4	R120	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	S.A
....4	R121	2007-000092	R-CHIP;15Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1159	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1175	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R151	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	S.A
....4	R530_EU	2007-000096	R-CHIP;30Kohm,5%,1/10W,TP,1608	1	S.A
....4	R543_EU	2007-000096	R-CHIP;30Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1140	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1146	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R130	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R201_EU	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R203_EU	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R250	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R251	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8056	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8059	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8095	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8096	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	1	S.A
....4	R102	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R148	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R150	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R601	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R603	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R611	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	S.A
....4	R3101	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3104	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3105	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3106	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3108	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3110	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3111	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3112	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3113	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3114	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3115	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3119	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3138	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3139	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3140	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3141	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3227	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3241	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3242	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R3245	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R609	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R610	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R628	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R629	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R630	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R634	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R635	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R636	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R639	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R662	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R8028	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R8029	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R8033	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R8034	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R8036	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R8040	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R346	2007-000116	R-CHIP;120ohm,5%,1/10W,TP,1608	1	S.A
....4	R347	2007-000116	R-CHIP;120ohm,5%,1/10W,TP,1608	1	S.A
....4	R384	2007-000116	R-CHIP;120ohm,5%,1/10W,TP,1608	1	S.A
....4	R385	2007-000116	R-CHIP;120ohm,5%,1/10W,TP,1608	1	S.A
....4	R531_EU	2007-000120	R-CHIP;680ohm,5%,1/10W,TP,1608	1	S.A
....4	R1042_L	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R105	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R106	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R107	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R109_L	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R523	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	S.A



## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R537	2007-000124	R-CHIP;2,2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8017	2007-000124	R-CHIP;2,2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1052_CPT	2007-000129	R-CHIP;27Kohm,5%,1/10W,TP,1608	1	S.A
....4	R1122	2007-000133	R-CHIP;330Kohm,5%,1/10W,TP,1608	1	S.A
....4	R527_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R541_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R546_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R547_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R548_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R549_EU	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8002	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8004	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8006	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8008	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8010	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8012	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8014	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8016	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8020	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8022	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8024	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8026	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8050	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R8051	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R221	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R223	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R228	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R232	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R238	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R240	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R350	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R354	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R357	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R1136	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R1137	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3235	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R3238	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R454_OP	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R456_OP	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R457_OP	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R458_OP	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R461_OP	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R462_OP	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R463_OP	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R464_OP	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R467	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R468	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R469	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R470	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R471	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R472	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R473	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R474	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R475_OP	2007-000309	R-CHIP;10ohm		

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R5050	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R666	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R667	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R623	2007-000402	R-CHIP;150ohm,5%,1/10W,TP,1608	1	S.A
....4	R8094	2007-000416	R-CHIP;15ohm,5%,1/10W,TP,1608	1	S.A
....4	R215	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R258_EU	2007-000458	R-CHIP;18Kohm,5%,1/10W,TP,1608	1	S.A
....4	R3109	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	S.A
....4	R488	2007-000659	R-CHIP;27OHM,5%,1/10W,TP,1608	1	S.A
....4	R912_FBE	2007-000669	R-CHIP;2Kohm,1%,1/10W,TP,1608	1	S.A
....4	R8079	2007-000683	R-CHIP;3.3Kohm,1%,1/10W,TP,1608	1	S.A
....4	R1148	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	R1149	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	R1151	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	R1152	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	R1154	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	R1155	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	R1157	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	R1158	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.A
....4	R8058	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R8060	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R8062	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R8064	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R8072	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R8073	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R8080	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R8081	2007-000882	R-CHIP;4.7ohm,5%,1/10W,TP,1608	1	S.A
....4	R1031_L	2007-000903	R-CHIP;430ohm,1%,1/10W,TP,1608	1	S.A
....4	R213_EU	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R417_OP	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R418	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R419_OP	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R420	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R6101	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R6102	2007-000950	R-CHIP;47ohm,5%,1/4W,TP,3216	1	S.A
....4	R140_FBE	2007-000999	R-CHIP;510ohm,1%,1/10W,TP,1608	1	S.A
....4	R370	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	S.A
....4	R371	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	S.A
....4	R1001_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1002_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1003_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1004_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1005_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1006_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1007_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1008_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1009_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1012_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1013_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1014_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1016_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R1017_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R650_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R651_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R652_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R653_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R654_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R655_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R656_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R657_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R658_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R659_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R660_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R661_FBE	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R606_OP	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	S.A
....4	R3116	2007-001139	R-CHIP;7.5Kohm,1%,1/10W,TP,1608	1	S.A
....4	R217	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R219	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R224	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R226	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R229_EU	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R234	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R236	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A



## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R242_EU	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R244	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R264	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R309_L	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R310_L	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R334_L	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R532_EU	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R1123	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R1160_TEST	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R1161_TEST	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R349	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R353	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R356	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	SA
....4	R116	2007-001179	R-CHIP;8.2Kohm,5%,1/10W,TP,1608	1	SA
....4	R3117	2007-008467	R-CHIP;2.26Kohm,1%,1/10W,TP,1608	1	SA
....4	RA606	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA608	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA609	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA610	2011-000002	R-NET;22ohm,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	R734	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA602	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA603	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA604	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA605	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA611	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA612	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA613	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA614	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA501	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA502	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA503	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA504	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA505	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA506	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA507	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA508	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA509	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA510	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA511	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA512	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA513	2011-000816	R-NET;100ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	R747	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R748	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3105	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3107	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3110	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3112	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3114	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3115	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3205	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3206	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3207	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3208	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3209	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA3210	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA601	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA615	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA701	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA702	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA703	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA704	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA705	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA706	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA707	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	RA904_FBE	2011-001001	R-NET;0ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.6	1	SA
....4	R733	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA1101_TES	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA515	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x1	1	SA
....4	RA3201	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	RA3202	2011-001093	R-NET;100OHM,5%,1/16W,L,CHIP,8P,TP,3216	1	SA
....4	C101	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C103	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C106	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C108_CPT	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C1102	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C1143	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C115	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C117	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C128	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C154	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C155	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C156	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C157	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C160	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C162	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C168	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C181	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C324	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C403_OP	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C404	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C5038	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C512	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C601	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C606	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C608	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C609	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C610	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C618	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C620	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C621	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C622	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C623	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C624	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C625	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C628	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C629	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C631	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C632	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C633	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C634	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C635	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C636	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C637	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C638	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C639	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C640	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C641	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C643	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C644	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C645	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C646	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C647	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C649	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C650	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C651	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C652	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C653	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C654	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C655	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C656	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C657	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C658	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C659	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C660	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C664	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C665	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C666	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C667	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C668	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C669	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C670	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C671	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C672	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C709	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C712	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C713	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA

## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C714	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C715	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C716	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C717	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C718	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C719	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C720	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C722	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C723	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C724	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C725	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C726	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C731	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8060	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8061	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8064_EU	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8076_EU	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8078_EU	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8080	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8082	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8085	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8087	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8090	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C8104	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C905_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C907_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C909_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C926_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C927_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C928_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C930_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C932_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C934_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C936_FBE	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C1132	2203-000221	C-CER,CHIP;100nF,20%,50V,Y5V,TP,3216	1	S.A
....4	C1010	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1011	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1012	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1013	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1164	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C201_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C202	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C203_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C204	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C205	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C206	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C226_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C228	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C229	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C230	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C231	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C232_EU	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C329	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C411	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C5084_DE	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C5085_DE	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C8097	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C1004_L	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1014_L	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C102	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1120	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1121	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1122	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C116	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C118	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1180	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1185	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1201	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1202	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1203	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1204	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1205	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C1206	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C1207	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C1208	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C1210	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C123	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C124	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C125	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C158	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C184	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C185	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C190	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C196	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C197	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C208	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C209	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C212	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C214	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C215	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C218	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C220	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C221	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C224	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C313	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C315	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C316	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C319	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C320	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C322	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C517	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C8125	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C8127	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C8131	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C8132	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C8133	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C8134	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C904_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C906_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C908_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C911_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C912_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C913_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C914_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C915_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C919_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C920_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C921_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C922_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C929_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C931_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C933_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C935_FBE	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA
....4	C210	2203-000384	C-CER,CHIP;0.015nF,5%,50V,C0G,1608	1	SA
....4	C211	2203-000384	C-CER,CHIP;0.015nF,5%,50V,C0G,1608	1	SA
....4	C216	2203-000384	C-CER,CHIP;0.015nF,5%,50V,C0G,1608	1	SA
....4	C217	2203-000384	C-CER,CHIP;0.015nF,5%,50V,C0G,1608	1	SA
....4	C222	2203-000384	C-CER,CHIP;0.015nF,5%,50V,C0G,1608	1	SA
....4	C223	2203-000384	C-CER,CHIP;0.015nF,5%,50V,C0G,1608	1	SA
....4	C169	2203-000405	C-CER,CHIP;0.18nF,5%,50V,C0G,1608	1	SA
....4	C1140	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C1142_DE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C734	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8017	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8046	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8048	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8049	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8053	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8055	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8062	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8072	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8073	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8081	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8089	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8096	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C8099	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA

## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C8100	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C916_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C917_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C923_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C924_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C925_FBE	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA
....4	C192	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA
....4	C8044	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA
....4	C8047	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA
....4	C626	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	SA
....4	C627	2203-000552	C-CER,CHIP;0.02nF,5%,50V,C0G,1608	1	SA
....4	C3223	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C3224	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	SA
....4	C1149	2203-000659	C-CER,CHIP;0.27nF,5%,50V,C0G,1608	1	SA
....4	C1153	2203-000659	C-CER,CHIP;0.27nF,5%,50V,C0G,1608	1	SA
....4	C1158	2203-000659	C-CER,CHIP;0.27nF,5%,50V,C0G,1608	1	SA
....4	C1162	2203-000659	C-CER,CHIP;0.27nF,5%,50V,C0G,1608	1	SA
....4	C661	2203-000681	C-CER,CHIP;0.027nF,5%,50V,C0G,1608	1	SA
....4	C662	2203-000681	C-CER,CHIP;0.027nF,5%,50V,C0G,1608	1	SA
....4	C663	2203-000681	C-CER,CHIP;0.027nF,5%,50V,C0G,1608	1	SA
....4	C673	2203-000681	C-CER,CHIP;0.027nF,5%,50V,C0G,1608	1	SA
....4	C674	2203-000681	C-CER,CHIP;0.027nF,5%,50V,C0G,1608	1	SA
....4	C675	2203-000681	C-CER,CHIP;0.027nF,5%,50V,C0G,1608	1	SA
....4	C170	2203-000715	C-CER,CHIP;3.3nF,10%,50V,X7R,1608	1	SA
....4	C304_L	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C305_L	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C310_L	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C311_L	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C312_L	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C325	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C326	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C416	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C417	2203-000783	C-CER,CHIP;0.33nF,5%,50V,C0G,1608	1	SA
....4	C1151	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C1156	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C1160	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C520_EU	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C521_EU	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C8102	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C8103	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	SA
....4	C1119	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C194	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C317	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C607	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C8079_EU	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C8095_EU	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C8108	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C8109	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C8110	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C8111	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA
....4	C314	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	SA
....4	C318	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	SA
....4	C321	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	SA
....4	C195	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	1	SA
....4	C611	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C612	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C613	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C614	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C615	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C616	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C617	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	SA
....4	C1190	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C1211	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C227	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C233	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C301_L	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C302_L	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C303_L	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	SA
....4	C901_FBE	2203-001034	C-CER,CHIP;5.6nF,10%,50V,X7R,1608	1	SA
....4	C902_FBE	2203-001052	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1608	1	SA
....4	C327	2203-001083	C-CER,CHIP;0.0050nF,0.1pF,50V,NP0,1608	1	SA
....4	C328	2203-001083	C-CER,CHIP;0.0050nF,0.1pF,50V,NP0,1608	1	SA
....4	C1163	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,1608	1	SA



Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C193	2203-001607	C-CER,CHIP;0.22nF,5%,50V,NP0,1608	1	SA
....4	C1146	2203-001630	C-CER,CHIP;330nF,+80-20%,16V,Y5V,1608	1	SA
....4	C1147	2203-001630	C-CER,CHIP;330nF,+80-20%,16V,Y5V,1608	1	SA
....4	C1106	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA
....4	C8063	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	SA
....4	C8065	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	SA
....4	C8067	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	SA
....4	C8101	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	SA
....4	C1001_L	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1007_L	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1008_L	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1100	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1105	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1107	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1109	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1111	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1113	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1114	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1117	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1131	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1133	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1135	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1138	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1165	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1170	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1172	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1173	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1174	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1175	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1176	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1182	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1187	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1189	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C121	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C129	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C131	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C133	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C135	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C137	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1425	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C146	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C148	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C167	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C172	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C175	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C176	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C178	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C178_FBE	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C179	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C179_FBE	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C181_FBE	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C183_FBE	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3101	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3102	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3103	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3104	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3105	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3106	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3107	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3108	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3109	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3110	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3111	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3112	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3113	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3114	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3115	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3116	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3117	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3118	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3119	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3120	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C3121	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA

## 6 Electrical Parts List

[illegible]

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C522	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C525	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C527	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C528	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C529	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C530	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C532	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C533	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C534	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C542_EU	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C676	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C677	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C680	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C681	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C8013	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C8014	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C8015	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C8019	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C8021	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C8024	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C8025	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C8027	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C8029	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	SA
....4	C1009_L	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C110	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C513	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C8026	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C8066	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C8069	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C8070	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C8098	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	SA
....4	C8051	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA
....4	C8052	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA
....4	C8056	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA
....4	C8057	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA
....4	C8083	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA
....4	C8084	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA
....4	C8093	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA
....4	C8094	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA
....4	C732	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C733	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C735	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C736	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8001	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8002	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8003	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8004	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8005	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8006	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8007	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8008	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8009	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8010	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8011	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8012	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8120	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C8121	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	SA
....4	C3217	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	SA
....4	C408	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C415	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C678	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	SA
....4	C1101	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1103	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1108	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1110	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1112	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1115	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1116	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1118	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C112	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1129	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1136	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA
....4	C1137	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA



## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C1139	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1171	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1177	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1181	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1183	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1184	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1186	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1188	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C122	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1424	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1426	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1433	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C1434	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C174	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C323	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C401_OP	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C402	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C523	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C524	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C526	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C531	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C605	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C619	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C630	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C642	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C648	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C679	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C711	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C721	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8022	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8023	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8028	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8041	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8042	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8043	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8045	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8059	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8071_EU	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8075_EU	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8077_EU	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8086_EU	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8088	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C8091	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C903_FBE	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C910_FBE	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C918_FBE	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C5037	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2mm	1	S.A
....4	C1002_L	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A
....4	C1003_L	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A
....4	C8034	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A
....4	C104	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C105	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1130	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1134	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C120	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C126	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C127	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C161	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C177_FBE	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C180_FBE	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C3212	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C603	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8031	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8032	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8058	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8107	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1104	2402-001129	C-AL,SMD;47uF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1141	2402-001129	C-AL,SMD;47uF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C602	2402-001129	C-AL,SMD;47uF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C604	2402-001129	C-AL,SMD;47uF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1006_L	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C130_VT	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C134	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C147	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m	1	S.A
....4	C8020	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m	1	S.A
....4	C107_CPT	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C109	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C119_L	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C130	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C132	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C136	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C145	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C171	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C173	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C180	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C191	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C543_EU	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C198	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A
....4	C8050	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A
....4	C8068	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A
....4	C518_EU	2404-001341	C-TA,CHIP;10UF,i%20%,16V,SCS,TP,3216	1	S.A
....4	C519_EU	2404-001341	C-TA,CHIP;10UF,i%20%,16V,SCS,TP,3216	1	S.A
....4	C540_EU	2404-001341	C-TA,CHIP;10UF,i%20%,16V,SCS,TP,3216	1	S.A
....4	C541_EU	2404-001341	C-TA,CHIP;10UF,i%20%,16V,SCS,TP,3216	1	S.A
....4	C159	2409-001029	C-ORGANIC,SMD;120uF,20%,6.3V,WT,TP,8.3x	1	S.A
....4	C111	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C114	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C182_FBE	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A
....4	T0052	2703-000417	INDUCTOR-SMD;220uH,5%,3225	1	S.A
....4	T0052	2703-001426	INDUCTOR-SMD;680uH,20%,7070	1	S.A
....4	T0052	2703-002722	INDUCTOR-SMD;22uH,20%,12x12mm	1	S.A
....4	L8001	2704-000018	INDUCTOR-SMD-ARRAY;15uH,2000mA,2,0.124oh	1	S.N.A
....4	L8003	2704-000018	INDUCTOR-SMD-ARRAY;15uH,2000mA,2,0.124oh	1	S.N.A
....4	X3201	2801-003954	CRYSTAL-SMD;27MHz,30ppm,28-AAN,16pF,50oh	1	S.A
....4	X601	2801-003954	CRYSTAL-SMD;27MHz,30ppm,28-AAN,16pF,50oh	1	S.A
....4	F103	2901-001114	FILTER-EMI SMD;25VDC,2.0ADC,-,100nF,3.2x	1	S.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001163	BEAD-SMD;80ohm,2012,TP,-,192ohm/867MHz	1	S.N.A
....4	T0568	3301-001163	BEAD-SMD;80ohm,2012,TP,-,192ohm/867MHz	1	S.N.A
....4	T0568	3301-001163	BEAD-SMD;80ohm,2012,TP,-,192ohm/867MHz	1	S.N.A
....4	T0568	3301-001163	BEAD-SMD;80ohm,2012,TP,-,192ohm/867MHz	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001324	BEAD-SMD;15ohm,2012,600mA,TP,,0.1ohm	1	S.A
....4	T0568	3301-001393	BEAD-SMD;60ohm,3216,1500mA,TP,41ohm/40MH	1	S.N.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A

## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	T0568	3301-001569	BEAD-SMD;600ohm,2012,1000mA,TP,520ohm/90	1	S.N.A
....4	JJA401_OP	3701-001367	CONNECTOR-HDMI;19P,2R,FEMALE,SMD,AU	1	S.A
....4	JJA402	3701-001367	CONNECTOR-HDMI;19P,2R,FEMALE,SMD,AU	1	S.A
....4	CN330	3711-005497	HEADER-BOARD TO CABLE;BOX,15P,1R,1.25MM,	1	S.A
....4	T0077	BN41-00879A	PCB MAIN;Sniper iDTV.FR-4,4,1.0,1.6T,192	1	S.N.A
....4	M0018	BN97-01388A	ASSY MICOM;T-BDXPDEU00-100S,N30A,2007.04	1	S.N.A
.....5	IC115	1107-001415	IC-FLASH MEMORY;29W320D,4Mx8/2Mx16Bit,TS	1	S.N.A
....4	M0018	BN97-01641A	ASSY MICOM;T-SNPMPPEUD,N33A,200703.26,110	1	S.N.A
.....5	IC115	1107-001453	IC-FLASH MEMORY;29W160E,16Mbit,2Mx8/1Mx1	1	S.N.A
....4	D702	0403-001117	DIODE-ZENER;RLZ12B,11.44-12.03V,500mW,LL	1	S.A
....4	IC705	1001-001178	IC-AUDIO SWITCH;TEA6422D,AUDIO SWITCH ,S	1	S.A
....4	IC106	1001-001443	IC-VIDEO SWITCH;PI3HDMI1212,HDMI TMDS S/	1	S.A
....4	R465	2007-000079	R-CHIP;1.8Kohm,5%,1/10W,TP,1608	1	S.A
....4	R466	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	S.A
....4	C8054	2203-000925	C-CER,CHIP;470nF,+80-20%,50V,Y5V,2012	1	S.A
....4	C8092	2203-000925	C-CER,CHIP;470nF,+80-20%,50V,Y5V,2012	1	S.A
....4	C730	2402-001044	C-AL,SMD;100UF,20%,25V,G.P,TP,8.3X8.3X6.3	1	S.A
...3	JJA3201_OP	3709-001346	CONNECTOR-CARD SLOT;68P,0.27mm,ANGLE,AU1	1	S.A
0.1		BN91-01634A	ASSY SHIELD-AMD;LE37S67BDX/XEC	1	S.N.A
.2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.A
.2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	1	S.A
.2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.A
.2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	6	S.A
.2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	2	S.A
.2	M0081	6003-001188	SCREW-TAPTITE;BH,+, -, B,M4,L10,ZPC(WHT),S	4	S.N.A
.2	M0081	6003-001188	SCREW-TAPTITE;BH,+, -, B,M4,L10,ZPC(WHT),S	9	S.N.A
.2	M0081	6003-001188	SCREW-TAPTITE;BH,+, -, B,M4,L10,ZPC(WHT),S	6	S.N.A
.2	M0081	6003-001439	SCREW-TAPTITE;BH,+, -, S,M4,L8,ZPC(WHT),SW	1	S.N.A
.2	M2893	BN39-00802A	LEAD CONNECTOR;LE32RM86BDX,UL1007#26,U/C	1	S.A
.2	M2893	BN39-00849A	LEAD CONNECTOR;LE37M86BDX/XEC,UL1007 #26	1	S.A
.2	M2893	BN39-00874A	LEAD CONNECTOR;LE32S81BX,UL1007#26,5PIN,	1	S.A
.2	M2893	BN39-00894A	LEAD CONNECTOR-LVDX;LE37S86BDX,UL1571#30	1	S

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0.1	M0113	BN92-01968A	ASSY P/MATERIAL;37S71,SONOMA	1	S.N.A
..2	T0376	6902-000001	BAG AIR;LDPE,T0.2,L1800,W1000,TRP,,,LDPE	0.017	S.N.A
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,L1000,W500,TRP,,,	0.086	S.N.A
..2	T0524	6902-000524	BAG PE;HDPE/NITRON,T0.015/T0.5,W1200,L11	1	S.N.A
..2	T0214	AA60-40006A	PIN-STAPLE;AUTO,33X17.8X2.4,H18,33X17.8X	2	S.N.A
..2	T0214	AA61-20285A	HOLDER-BOX;CTV,PP,NTR,HB	2	S.N.A
..2	T0172	AA69-02609A	BAND-PP;-,PP,-,W18,-,CLEA,1G,-,-	4.85	S.N.A
0.1	M0019	BN92-01981Y	ASSY LABEL;LN52M71BD	1	S.N.A
0.1	M0003	BN92-02634B	ASSY BOX;37T71,E0	1	S.N.A
..2	M0521	BN69-01552A	BOX-SET,IN;37T7,CB,C-01,W1520,D800	1.02	S.N.A
..2		BN69-01553L	BOX-SET,OUT;37S62,CB,DY-01,AB,YEL,C3,W11	1.02	S.N.A
0.1	M0045	BN92-02733D	ASSY ACCESSORY;LE37S67BDX/XEC	1	S.N.A
..2	M0045	BN96-05617D	ASSY ACCESSORY;LE37S67BDX/XEC	1	S.A
...3	T0268	3903-000145	CBF-POWER CORD;DT,EU,FP3/YES,U(IIEC C13-R	1	S.A
...3	T0524	6902-000018	BAG PE;LDPE,T0.1,W280,L400,CLEAR,8,2	1	S.N.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	2	S.N.A
...3	ACCESSORY	AA68-03242E	MANUAL FLYER-02;SAFETY GUIDE;All Model,S	1	S.N.A
...3	ACCESSORY	AA68-03575A	MANUAL FLYER-02,REGISTRATION C;XEU,ENG,U	1	S.N.A
...3	ACCESSORY	AA68-03575B	MANUAL FLYER-02,REGISTRATION C;XEG,GERMA	1	S.N.A
...3	ACCESSORY	AA68-03575C	MANUAL FLYER-02,REGISTRATION C;XEF,FRENC	1	S.N.A
...3	ACCESSORY	AA68-03575D	MANUAL FLYER-03,REGISTRATION C;XEC,SPANI	1	S.N.A
...3	ACCESSORY	AA68-03575E	MANUAL FLYER-04,REGISTRATION C;XET,ITALY	1	S.N.A
...3	ACCESSORY	AA68-03575F	MANUAL FLYER-02,REGISTRATION C;XEN,DUTCH	1	S.N.A
...3	ACCESSORY	AA68-03575G	MANUAL FLYER-02,REGISTRATION C;XEP,PORTU	1	S.N.A
...3	T0074	BN59-00611A	REMOCON;JASMINE , LILY,TM87C,SAMSUNG 28p	1	S.A
...3	ACCESSORY	BN63-01798A	CLOTH-CLEAN;RE40**,CLOTH,180,200,RHCM	1	S.N.A
...3	T0531	BN63-02416B	COVER-BOTTOM;SONOMA,40,HIPS,HB,BK500	1	S.A
...3	ACCESSORY	BN68-00514C	MANUAL FLYER-WARRANTY CARD,03;comm,Samsu	1	S.N.A
...3	T0511	BN68-01147F	MANUAL USERS;COMM,SAMSUNG,E/F/G/D/I/S/P/	1	S.N.A

## 6 Electrical Parts List

### 6-3 LE40S67BDX Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
		LE40S67BDX/XEH	LE40S67BD,N33A/40S60-GSA,40,LCD-TV,HUNGA		
0.1	M0001	BN90-00857V	ASSY COVER FRONT;40S73,EO,ABS+PMMA,HB,BK	1	S.N.A
..2	T0003	BN96-03394U	ASSY COVER P-FRONT;40S67,XEC,ABS+PMMA,HB	1	S.N.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	2	S.N.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	1	S.N.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	2	S.N.A
...3	M0081	6006-001096	SCREW-TAPTITE;BH,+WP,B,M4,0,L12,ZPC(BLK	4	S.N.A
...3	M0162	6502-001067	CABLE CLAMP;DAFC-1300,ID2.2,T5.2,NYLIN6/	2	S.N.A
...3	T0069	AA60-00073B	SPACER-FELT;PJT,FELT,T1.0,600X7	1	S.N.A
...3	T0069	AA60-00171V	SPACER-FELT;BE46PS,FELT,500,T0.35,10	2	S.N.A
...3	T0069	AA63-60001Q	SPACER-FELT;FELT,-,-,-,BLK,T0.35,-,150	1	S.N.A
...3	T0060	BN61-01655A	SPRING ETC;STS-304 SUS,D8,L12,T0.5	1	S.N.A
...3	CCM1	BN63-02183E	COVER-SHEET;Rhcm,PE Vinyl,T0.05,750mm,20	0.864	S.N.A
...3	T0056	BN63-02414B	COVER-DECORATION;SONOMA,40,HIPS,-,-,-,HB	1	S.N.A
....4		BN81-00187B	RESIN;HIPS HB GR503,HF-1690H,G4309	212.5	S.N.A
...3	M0112	BN63-02552J	COVER-FRONT;40S73,EO,ABS+PMMA,HB,BK23,S/	1	S.N.A
....4		BN81-00204P	RESIN-HIGH GLOSS;SF-0505,K21294,ABS HB P	1,99.600	S.N.A
...3	T0059	BN64-00379A	INDICATOR LED;ROME-II,23,PC,CLEAR	1	S.N.A
...3	T0061	BN64-00453A	WINDOW-REMOCON;32R71,PC,V0,VIOLET,DIFFUS	1	S.N.A
...3	T0022	BN64-00467A	KNOB CONTROL;SONOMA26,32,40,ABS,-,-,-,V0	1	S.N.A
....4		BH83-00150P	CKD-ABS HB;HF-0680U,K2331	0.037	S.N.A
...3	T0023	BN64-00476F	KNOB POWER;07,SONOMA,26,32,40,HIPS,HB,GR	1	S.N.A
....4		AA81-00130A	RESIN-C/F;HIPS-HB,GR504	5.5	S.N.A
...3	T0054	BN64-00477A	KNOB-DECORATION;SONOMA26,32,40,ABS,HB,GR	1	S.N.A
...3	M0146	BN96-03438B	ASSY BOARD P-POWER & IR;LE37,40S67BDX,CT	1	S.A
...3	M0145	BN96-03466A	ASSY BOARD P-FUNCTION;SONOMA,SJ06-01-008	1	S.A
...3	T0175	BN96-04770B	ASSY SPEAKER P;8ohm,4pin,10W,600/1250mm,	1	S.A
...3	T0069	AA60-00091J	SPACER-FELT;FELT,330X10,-,-,BLK,T0.5,-	2	S.N.A
0.1	M0002	BN90-01305A	ASSY COVER REAR;40S73,EO,HIPS,HB,BK500,S	1	S.N.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,-,M4,L16,ZPC(BLK)	12	S.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,-,M4,L16,ZPC(BLK)	3	S.A
..2	M0013	BN96-05545A	ASSY COVER P-REAR;40S73,EO,,HIPS,HB,,BK5	1	S.A
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	2	S.N.A
...3	T0069	AA60-00091K	SPACER-FELT;FELT,330X10,-,-,BLK,T0.35,	5	S.N.A
...3	M0125	BN61-02950A	HOLDER-WALL;COMMON,ABS,V0(NT),-,-,-,BK50	2	S.N.A
....4		BN81-00204R	RESIN;NT-7200,K2901,ABS V0,BK19,-,-,-	4.48	S.N.A
...3	M0006	BN63-03620A	COVER-REAR;SONOMA2,40,HIPS,HB,BK500,EO(I	1	S.N.A
....4		BN81-00199H	RESIN;HIPS HB,BK500,HF-1690H,K2901	3,187.80	S.N.A
...3	T0071	BN64-00555B	INLAY-TERMINAL;07,COMMON,EO(IDTV),PS SHE	1	S.N.A
...3	T0064	BN65-00002A	CLAMPER CORE;BORDEAUX,PP,V0,BLK	1	S.N.A
0.1	M0216	BN90-01306A	ASSY STAND;40S73,ABS+PMMA,HB,BK23,H/GLOS	1	S.N.A
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,-,M4,L16,ZPC(BLK)	4	S.A
..2	M0027	BN96-05546A	ASSY STAND P-BASE;-40S73-,ABS+PMMA,HB,	1	S.A
...3	T0081	6002-001294	SCREW-TAPPING;BH,+,-,M4,L16,ZPC(BLK)	7	S.A
...3	M0081	6003-001239	SCREW-TAPTITE;FH,+,-,B,M4,L10,ZPC(WHT),S	11	S.A
...3		BN61-01811A	BRACKET-STAND BOTTOM;40 MILANO,SECC,T3.0	1	S.N.A
...3	T0920	BN61-03300A	GUIDE-STAND;SNIPER,40,ABS,V0(NT),-,-,-,B	1	S.N.A
....4		BN81-00204R	RESIN;NT-7200,K2901,ABS V0,BK19,-,-,-	321.2	S.N.A
...3	CCM1	BN63-02183E	COVER-SHEET;Rhcm,PE Vinyl,T0.05,750mm,20	0.45	S.N.A
...3	T0004	BN63-02698A	COVER-STAND BASE;GML40,ABS+PMMA,HB,BK23,	1	S.N.A
....4		BN81-00204P	RESIN-HIGH GLOSS;SF-0505,K21294,ABS HB P	746.2	S.N.A
...3	T0132	BN73-00052A	RUBBER FOOT;ARES 17,CR Rubber Gray,T1.5	9	S.N.A
0.1	M0017	BN91-01631G	ASSY CHASSIS;LE40S67BDX/*	1	S.N.A
..2	M0014	BN94-01354P	ASSY PCB MAIN-AMLCD VE;LE40S67BDX/*	1	S.A
...3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.25	S.N.A
...3	JA306	3701-001400	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,Ni	1	S.A
...3	CN906	3707-001081	CONNECTOR-OPTICAL;STRAIGHT,SPDIF	1	S.A
...3	JA3201_OP	3709-001346	CONNECTOR-CARD SLOT;68P,0.27mm,ANGLE,AU1	1	S.A
...3	CN330	3711-000058	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5MM,AN	1	S.A
...3	CN330	3711-004531	HEADER-BOARD TO CABLE;BOX,10P,1R,2mm,ANG	1	S.A
...3	CN330	3711-005606	HEADER-BOARD TO CABLE;BOX,30P,2R,2mm,STR	1	S.A
...3	CN330	3711-005842	HEADER-BOARD TO CABLE;BOX,24P,2R,2MM,STR	1	S.A
...3	JA330	3722-000143	JACK-PHONE;1P(VER),AG,BLK,ANGLE	1	S.A
...3	JA202_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A
...3	JA207_EU	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A
...3	JA332	3722-001163	JACK-VHS;4P,AU,BLK,ANGLE	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...3	JA333	3722-002360	JACK-PIN;3P,AU,GRN/BLU/RED,STRAIGHT	1	S.A
...3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002362	JACK-PIN;2P,Sn,WHT/RED,STRAIGHT	1	S.A
...3	JA333	3722-002543	JACK-PIN;3P,Sn,RED/WHT/YEL,ANGLE	1	S.A
...3	CIS3	BN40-00112A	TUNER;TDHG6-K02A,TDHG6-K02A,PAL Hyper,18	1	S.A
...3	T0603	BN63-02494A	SHIELD-PCB MAIN;MOSEL 40",SPTE,T0.3,EURO	1	S.N.A
...3	CCMM1	BN73-00024D	SILICON/RUBBER;BORDEAUX,SILICON,28x28XT6	1	S.N.A
...3	HDCP	BN97-00688A	ASSY HDCP;BN46-00018A,PS-42V6S,D73A,GENE	1	S.N.A
...4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
...3	T0174	BN97-01642P	ASSY SMD;LE40S67BDX*	1	S.N.A
...4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45##,96.5Sn/	4,559	S.N.A
...4	D1001_L	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
...4	D109	0401-000133	DIODE-SWITCHING;RLS4148,75V,150mA,LL-34,	1	S.A
...4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D106	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D1102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D230	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D231	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D232	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D403	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D404	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D405	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D406	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8018	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8019	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D8001	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8002	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8003	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8006	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8007	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8008	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8009	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8010	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8011	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8012	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D8014	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.A
...4	D0254	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
...4	D1101	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
...4	D8016	0403-000314	DIODE-ZENER;RLZJ9.1B,8.8-9.3V,500mW,LL-3	1	S.A
...4	D8017	0403-000314	DIODE-ZENER;RLZJ9.1B,8.8-9.3V,500mW,LL-3	1	S.A
...4	D207_EU	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D211	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D225_EU	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D306_L	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D307_L	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D321_L	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D331	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D332	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D333	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D334	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D335	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D390	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D490	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D504	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D8013	0403-000620	DIODE-ZENER;RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A
...4	D401	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
...4	D402	0403-001016	DIODE-ZENER;RLZ6.2B,5.96-6.27V,500mW,LL-	1	S.A
...4	D702	0403-001117	DIODE-ZENER;RLZ12B,11.44-12.03V,500mW,LL	1	S.A
...4	D105	0403-001425	DIODE-ZENER;BZX84C33,31-35V,350mW,SOT-23	1	S.A
...4	D0254	0404-001020	DIODE-SCHOTTKY;BAT54C,30V,200mA,SOT-23,T	1	S.A
...4	D201	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
...4	D202	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
...4	D203_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
...4	D204	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
...4	D205_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
...4	D206	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
...4	D212	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
...4	D213_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A
...4	D214	0406-001172	DIODE-TVS;CDS3C30GTH,48/-50V,SMD	1	S.A



## 6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D215	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D216	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D217_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D218	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D219	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D221	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D222	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D223	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D224	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D226	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D227_EU	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D302_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D303_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D308_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D309_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D310_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D322_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D323_L	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D324	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D325	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D328	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D329	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D330	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D409	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D410	0406-001172	DIODE-TVS;CDS3C30GTH,48/-/50V,SMD	1	S.A
....4	D408	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D502_L	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D503	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D701	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	D8004	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A
....4	Q1102	0501-000434	TR-SMALL SIGNAL;KTC3875S-GR,NPN,150mW,SO	1	S.A
....4	Q1107	0501-000434	TR-SMALL SIGNAL;KTC3875S-GR,NPN,150mW,SO	1	S.A
....4	Q510_EU	0501-000434	TR-SMALL SIGNAL;KTC3875S-GR,NPN,150mW,SO	1	S.A
....4	Q1103	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q1104	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q505_EU	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q508_EU	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q8001	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q8002	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A
....4	Q102	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q103_L	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q104_L	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q504_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q506_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q507_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q509_EU	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q301	0501-002184	TR-SMALL SIGNAL;KTD1304,NPN,200mW,SOT-23	1	S.A
....4	Q302	0501-002184	TR-SMALL SIGNAL;KTD1304,NPN,200mW,SOT-23	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	S.A
....4	IC104	0801-002095	IC-CMOS LOGIC;74LCX245,TRANSCEIVER,TSSOP	1	S.A
....4	IC104	0801-002172	IC-CMOS LOGIC;74LCX16244,BUFFER/LINE DRI	1	S.A
....4	IC104	0801-002172	IC-CMOS LOGIC;74LCX16244,BUFFER/LINE DRI	1	S.A
....4	IC104	0801-002172	IC-CMOS LOGIC;74LCX16244,BUFFER/LINE DRI	1	S.A
....4	IC104	0801-002378	IC-CMOS LOGIC;74VHC04,INVERTER,SOP,14P,8	1	S.A
....4	IC104	0801-002617	IC-CMOS LOGIC;7S08,2-INPUT AND GATE,SOT-	1	S.A
....4	IC1101	0803-000307	IC-TTL;74LS157,2-TO-1 DATA SELECTOR,SOP,	1	S.A
....4	IC1805	1001-000164	IC-ANALOG MULTIPLEX;74HC4052,CMOS,SOP,16	1	S.A
....4	IC106	1001-001082	IC-VIDEO SWITCH;BA7657F,-,SOP,24P,300MIL	1	S.A
....4	IC5005	1001-001109	IC-ANALOG SWITCH;FST3125M,BUS SWITCH & C	1	S.A
....4	IC705	1001-001178	IC-AUDIO SWITCH;TEA6422D,AUDIO SWITCH,S	1	S.A
....4	IC509	1001-001211	IC-ANALOG MULTIPLEX;MM74HC4052MTC,DUALMU	1	S.A
....4	IC106	1001-001443	IC-VIDEO SWITCH;PI3HDMI1212,HDMI TMDS S/	1	S.A
....4	IC107	1002-001482	IC-D/A CONVERTER;WM8521H9GED/R,16bit,SOI	1	S.A
....4	IC107	1002-001482	IC-D/A CONVERTER;WM8521H9GED/R,16bit,SOI	1	S.A

[illegible]



## 6 Electrical Parts List

[illegible]

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## 6 Electrical Parts List

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## 6 Electrical Parts List

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## 6 Electrical Parts List

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## 6 Electrical Parts List

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## 6 Electrical Parts List

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## 6 Electrical Parts List

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## 6 Electrical Parts List

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## 6 Electrical Parts List

[illegible]

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C120	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	S.A
....4	C5037	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2mm	1	S.A
....4	C1002_L	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A
....4	C1003_L	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A
....4	C8034	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A
....4	C730	2402-001044	C-AL,SMD;100uF,20%,25V,GP,TP,6.3X8.3X6.3	1	S.A
....4	C104	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1127	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1130	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1134	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C120	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C126	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C127	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C161	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C177_FBE	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C180_FBE	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C3212	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C603	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8031	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8032	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8058	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C8107	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C1104	2402-001129	C-AL,SMD;47uF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C602	2402-001129	C-AL,SMD;47uF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C604	2402-001129	C-AL,SMD;47uF,20%,16V,WT,TP,6.3X5.2MM	1	S.A
....4	C1141	2402-001145	C-AL,SMD;47uF,20%,50V,GP,TP,6.3X7.7MM	1	S.A
....4	C1006_L	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C134	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C147	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C186_VT	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C8020	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8mm	1	S.A
....4	C107_CPT	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C109	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C119_L	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C130	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C132	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C136	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C145	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C171	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C173	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C189	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C191	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C543_EU	2402-001183	C-AL,SMD;22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C198	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A
....4	C8050	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A
....4	C8068	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A
....4	C518_EU	2404-001341	C-TA,CHIP;10UF,##20%,16V,SCS,TP,3216	1	S.A
....4	C519_EU	2404-001341	C-TA,CHIP;10UF,##20%,16V,SCS,TP,3216	1	S.A
....4	C540_EU	2404-001341	C-TA,CHIP;10UF,##20%,16V,SCS,TP,3216	1	S.A
....4	C541_EU	2404-001341	C-TA,CHIP;10UF,##20%,16V,SCS,TP,3216	1	S.A
....4	C159	2409-001029	C-ORGANIC,SMD;120uF,20%,6.3V,WT,TP,6.3x8	1	S.A
....4	C111	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C114	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C182_FBE	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A
....4	T0052	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	S.A

## 6 Electrical Parts List

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Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	M0018	BN97-01641A	ASSY MICOM;T-SNM2PEUMD-2004,N33A,2007010	1	S.N.A
....5	IC115	1107-001453	IC-FLASH MEMORY;-;16Mbit,2Mx8/1Mx16,TSOP	1	S.N.A
....4	Q1001_L	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1003_L	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q107	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1101	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1105	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q1106	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q202	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q203	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q205	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q206	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q401	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q402	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q404	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q501	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q5010	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....4	Q8003	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A
....3	CN330	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2mm,STRA	1	S.A
0.1		BN91-01633F	ASSY SHIELD-SNH;LE40S67BDX/*	1	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	1	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	1	S.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	5	S.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	2	S.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	4	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	6	S.N.A
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,B,M4,L10,ZPC(WHT),S	9	S.N.A
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(WHT),SW	1	S.N.A
..2	M2893	BN39-00716F	LEAD CONNECTOR;LNS4696DX,UL3239#24,UL/CS	1	S.A
..2	M2893	BN39-00802E	LEAD CONNECTOR;LE40S81BX,UL1007#26,24PIN	1	S.A
..2	M2893	BN39-00829A	LEAD CONNECTOR;LNT4042HX/XAA,UL1061#28,5	1	S.A
..2	M2893	BN39-00889A	LEAD CONNECTOR;LE40R86BDX,UL1571#30,30P,	1	S.A
..2	M0174	BN44-00134A	IP BOARD;SIP40,LE40R71B,2.0-3.0mA,6.0-7.	1	S.A
..2	M0146	BN61-02256B	BRACKET-PANEL SIDE;Bordeaux 40,SECC,T1.2	1	S.N.A
..2	M0146	BN61-02257B	BRACKET-PANEL SIDE;Bordeaux 40,SECC,T1.2	1	S.N.A
..2	M0114	BN61-02500A	HOLDER-WIRE;NYLON6.6,NATURAL	2	S.N.A
..2	M0254	BN61-03025E	HOLDER-SIDE AV;23S81,EO,HIPS,V0,-,-,BK	1	S.N.A
....3		BN81-00199H	RESIN;HIPS HB,BK500,HF-1690H,K2901	0.021	S.N.A
..2	M0115	BN61-03238A	BRACKET-STAND LINK;40 BORDEAUX2,SECC,T1.	1	S.N.A
..2	M0107	BN63-03039A	SHIELD-COVER;MURANO40,PCM,T0.5,IDTV	1	S.N.A
..2	T0447	BN96-04679A	ASSY BRACKET P-PANEL;-;BORDEAUX PLUS40,-	1	S.A
....3		BN61-02963A	BRACKET-GUIDE POWER;40 BORDEAUX PLUS,SEC	1	S.N.A
....3	T0101	BN61-02968A	BRACKET-WALL;40 BORDEAUX PLUS,SECC,T1.2	1	S.N.A
....3	M0146	BN61-02972A	BRACKET-PANEL TOP;40 BORDEAUX PLUS,SECC,	1	S.N.A
....3		BN61-02975A	BRACKET-GUIDE POWER;40 BORDEAUX PLUS,SEC	1	S.N.A
....3		BN61-02979A	BRACKET-PANEL BOTTOM;40 BORDEAUX PLUS,SE	1	S.N.A
....3		BN61-02982A	BRACKET-GUIDE MAIN;40 BORDEAUX PLUS,SECC	1	S.N.A
....3	M0107	BN61-03036A	BRACKET-PCB;40 BORDEAUX PLUS,SECC,T1.2,S	1	S.N.A
....3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	1	S.A
....3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.A
....3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	6	S.A
....3	M0131	BN63-02628A	GASKET;Oxford,Conductive Fabric,8,12,300	1	S.N.A
....3	M0131	BN63-03327A	GASKET;BORDEAUX PLUS,Conductive Fabric,2	2	S.N.A
..2	M0125	BN96-05361A	ASSY INLET P;LE37M87BDX,XEC,200,150MM,-,	1	S.A
..2	M2893	BP39-00177B	LEAD CONNECTOR;RE40**,UL1007#26,5P,150mm	1	S.A
0.1		BN91-01702B	ASSY LCD-AMLCD;LNT4042HX/*	1	S.N.A
..2	M0215	BN07-00451A	LCD-PANEL;LTA400WT-L07,8bit,40inch,16.7M	1	S.A
0.1	M0019	BN92-01981Y	ASSY LABEL;LN52M71BD	1	S.N.A
0.1	M0003	BN92-02633B	ASSY BOX;40T71,EO	1	S.N.A
..2		BN69-01533A	BOX INNER;40T7,DY-04,AB,YEL,C-01,W790,L1	1	S.N.A
..2		BN69-01534P	BOX-SET,OUT;40S62,CB,DY-06,AB,YEL,C3,EUR	1	S.N.A
0.1	M0113	BN92-02638A	ASSY P/MATERIAL;40T71,UO	1	S.N.A
..2	T0524	6902-000411	BAG PE;HDPE/NITRON,T0.015/T0.5,W1300,L12	1	S.N.A
..2	T0003	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	10	S.N.A
..2	T0214	AA61-00049B	HOLDER-BOX;DP,AA61-20285A,PP,NTR,V0	2	S.N.A

## 6 Electrical Parts List

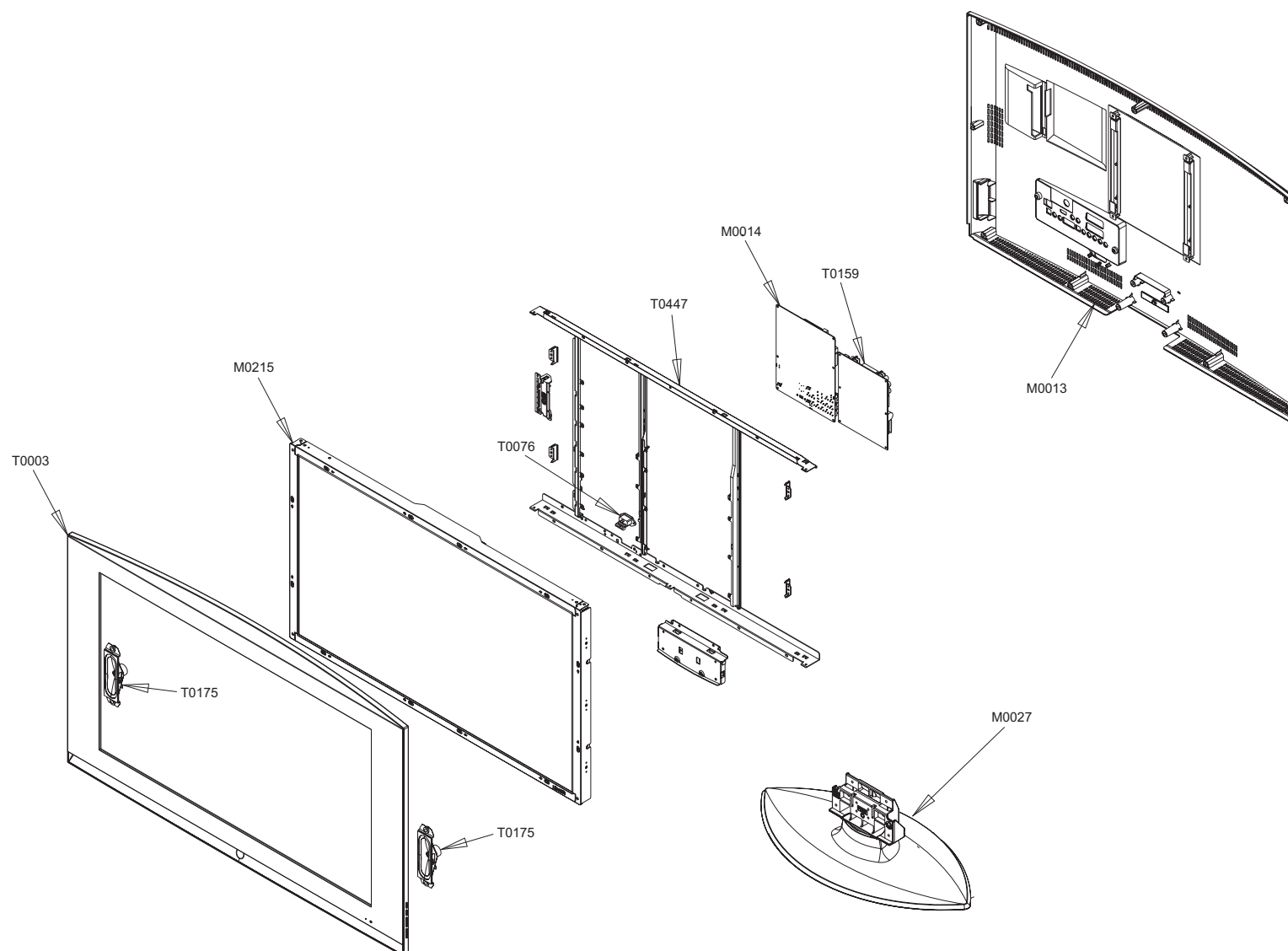
Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
..2		6922-000003	BAND PP;PP,T0.8,W18,L1650M,TRP,DA69-9014	5.2	S.N.A
..2	T0214	BN74-00008A	TAPE-OPP MASKING;OPP-2,T0.05,W100,L800M,	1.36	S.N.A
0.1	M0045	BN92-02733H	ASSY ACCESSORY;LE40S67BDX/XEH	1	S.A
..2	M0045	BN96-05617H	ASSY ACCESSORY;LE40S67BDX/XEH,-,-,-,-,-	1	S.A
...3	T0268	3903-000145	CBF-POWER CORD;DT,EU,FP3/YES,U(IEC C13-R	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	2	S.N.A
...3	ACCESSORY	AA68-03575H	MANUAL-02,REGISTRATION CARD;XEH,Hungaria	1	S.N.A
...3	T0074	BN59-00611A	REMOCON;JASMINE , LILY,TM87C,SAMSUNG 28p	1	S.A
...3	ACCESSORY	BN63-01798A	CLOTH-CLEAN;RE40***,CLOTH,180,200,RHCM	1	S.N.A
...3	T0531	BN63-02416B	COVER-BOTTOM;SONOMA,40,HIPS,HB,BK500	1	S.A
...4		BN81-00199H	RESIN;HIPS HB,BK500,HF-1690H,K2901	59.4	S.N.A
...3	M0156	BN68-01147H	MANUAL USERS-01;COMM,SAMSUNG,E/H/P/G/B/S	1	S.N.A
...3	T0210	AA68-03242K	MANUAL FLYER-01,SAFETY GUIDE;comm,Samsun	1	S.N.A
...3	ACCESSORY	BN68-00514E	MANUAL FLYER-00,WARRANTY CARD;comm,Samsu	1	S.N.A

## 5 Exploded View and Parts List

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

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

### 5-1 LE32S67BDX Exploded View



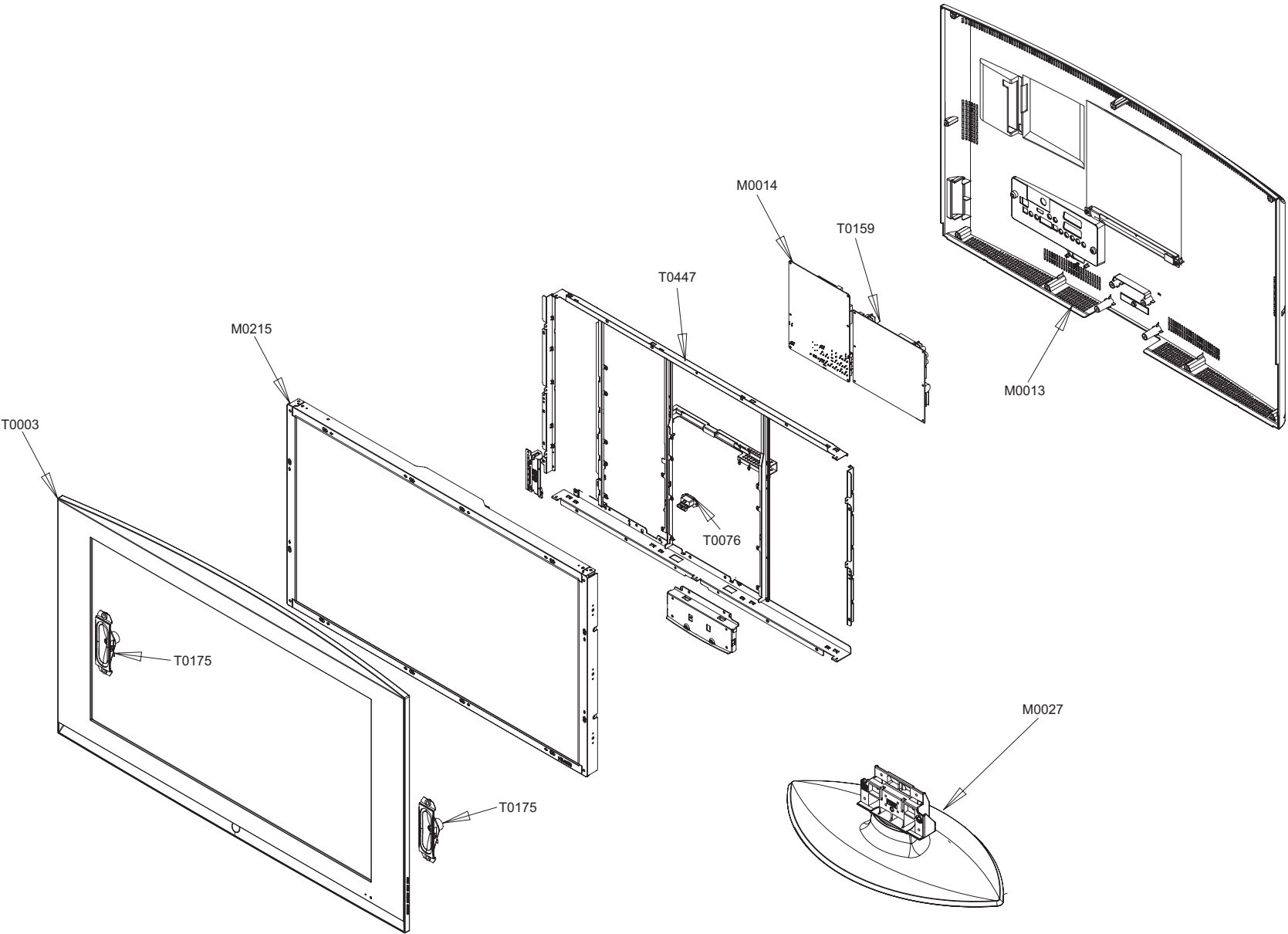
5 Exploded View & Parts List

5-2 LE32S67BDX Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03628X	ASSY COVER P-FRONT;32S67,XEC,ABS+PMMA,,B	1	S.A	
T0175	BN96-04770A	ASSY SPEAKER P;8ohm,4pin,10W,,Jasmine 32"	1	S.A	
M0215	BN07-00453A	LCD-PANEL;LTA320WT-L06,8bit,32inch,16.7M	1	S.A	
T0447	BN96-04681A	ASSY BRACKET P-PANEL;-;32R81,-,-,-,-,AM,	1	S.N.A	
M0146	BN61-02419A	BRACKET-PANEL SIDE;SONOMA 32,SECC,T1.2,A	4	S.N.A	
M0014	BN94-01354N	ASSY PCB MAIN-AMLCD VE;LE32S67BDX*	1	S.A	
M0115	BN61-03303A	BRACKET-STAND LINK;SNIPER 32,SECC,T1.6	1	S.N.A	
M0027	BN96-03698A	ASSY STAND P-BASE;-;SONOMA32,ABS+PMMA,HB	1	S.A	
M0013	BN96-05543A	ASSY COVER P-REAR;32S73,EO,,HIPS,HB,,BK5	1	S.A	



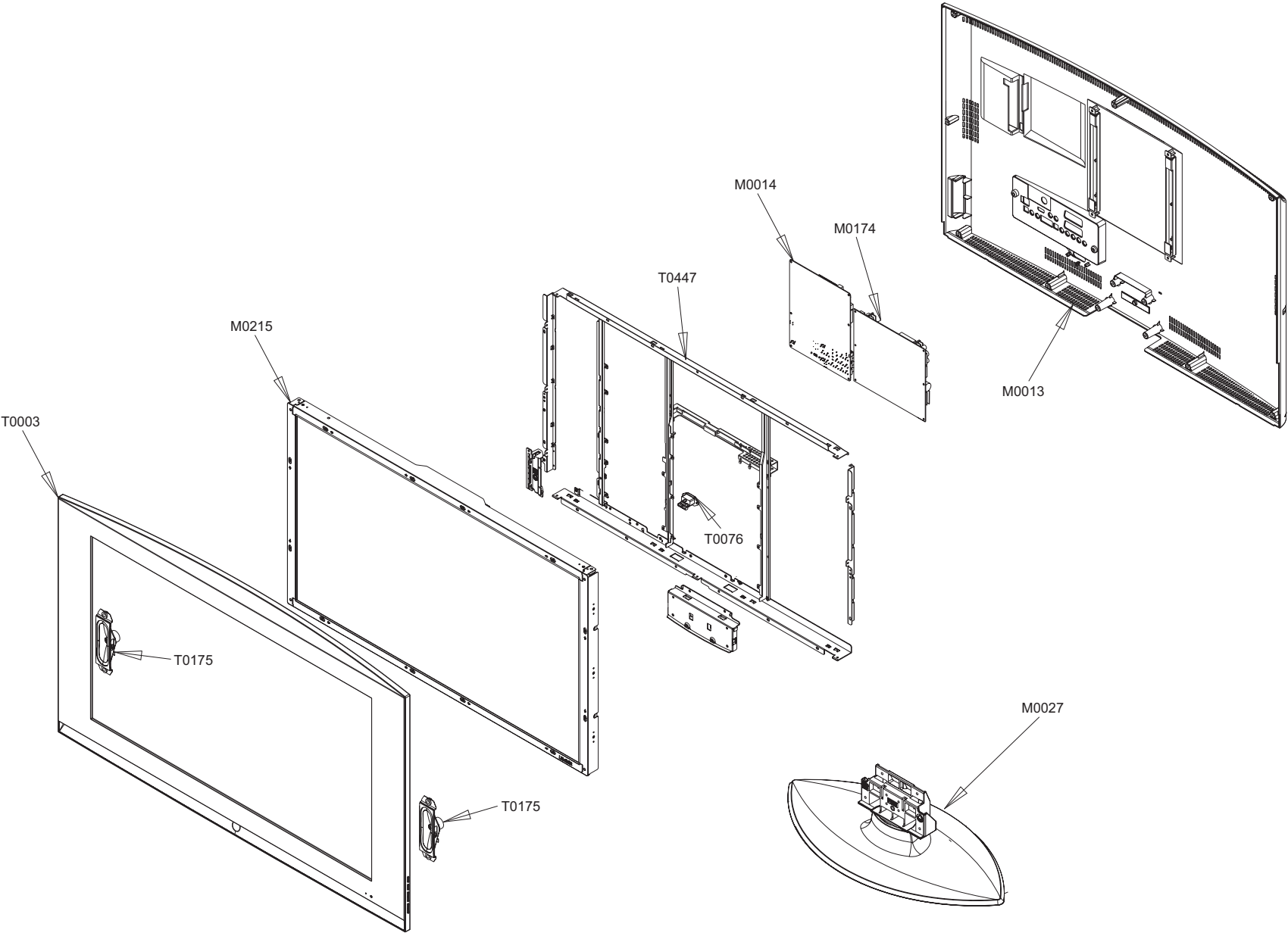
5-3 LE37S67BDX Exploded View



## 5-4 LE37S67BDX Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-04044K	ASSY COVER P-FRONT;37S73,EO,ABS+PMMA,HB,	1	S.A	
T0175	BN96-04770B	ASSY SPEAKER P;8ohm,4pin,10W,600/1250mm,	1	S.A	
M0215	BN07-00424A	LCD-PANEL;CLAA370WA03SL,8bit,37inch,16.7	1	S.A	
T0447	BN96-04680E	ASSY BRACKET P-PANEL;37S86,EO	1	S.N.A	
M0146	BN61-02241A	BRACKET-PANEL SIDE;Bordeaux 37,SECC,T1.2	1	S.N.A	
M0146	BN61-02242A	BRACKET-PANEL SIDE;Bordeaux 37,SECC,T1.2	1	S.N.A	
M0014	BN94-01354C	ASSY PCB MAIN;LE37S67BDX/XEC	1	S.A	
M0027	BN96-05546A	ASSY STAND P-BASE;40S73,ABS+PMMA,HB,BK23	1	S.A	
M0013	BN96-05544A	ASSY COVER P-REAR;37S73,EO,HIPS,HB,BK500	1	S.A	

5-5 LE40S67BDX Exploded View



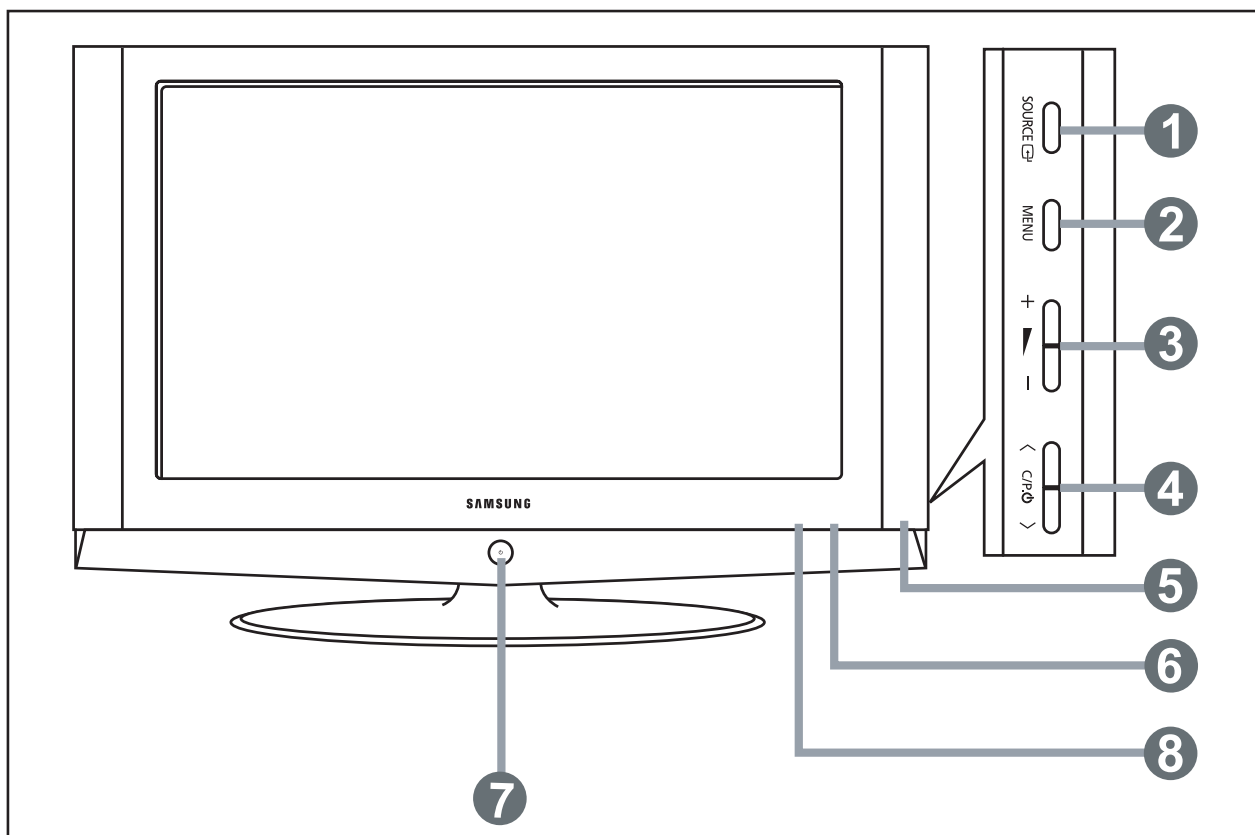
5 Exploded View & Parts List

5-6 LE40S67BDX Parts list

Location	Code.No	Item & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-03394U	ASSY COVER P-FRONT;40S67,XEC,ABS+PMMA,HB	1	S.N.A	
T0175	BN96-04770B	ASSY SPEAKER P;8ohm,4pin,10W,600/1250mm,	1	S.A	
M0215	BN07-00451A	LCD-PANEL;LTA400WT-L07,8bit,40inch,16.7M	1	S.A	
T0447	BN96-04679A	ASSY BRACKET P-PANEL;- ,BORDEAUX PLUS40,-	1	S.A	
M0146	BN61-02256B	BRACKET-PANEL SIDE;Bordeaux 40,SECC,T1.2	1	S.N.A	
M0146	BN61-02257B	BRACKET-PANEL SIDE;Bordeaux 40,SECC,T1.2	1	S.N.A	
M0014	BN94-01354P	ASSY PCB MAIN-AMLCD VE;LE40S67BDX/*	1	S.A	
M0027	BN96-05546A	ASSY STAND P-BASE;- ,40S73,- ,ABS+PMMA,HB,	1	S.A	
M0013	BN96-05545A	ASSY COVER P-REAR;40S73,EO,,HIPS,HB,,BK5	1	S.A	

## 10 Operating Instructions and Installation

### 10-1 Front



- The product colour and shape may vary depending on the model.

#### 1. SOURCE

Toggles between all the available input sources (TV, Ext.1, Ext.2, AV, S-Video, Component, PC, HDMI1, HDMI2, DTV).

In the on-screen menu, use this button as you use the **ENTER/OK** button on the remote control.


#### 2. MENU

Press to see an on-screen menu of your TV's features.

In case of DTV mode, the DTV menu appears.


#### 3. + -

Press to decrease or increase the volume.

In the on-screen menu, use the +  - buttons as you use the ◀ and ▶ buttons on the remote control.

#### 4. < C/P. >

Press to change channels.

In the on-screen menu, use the < **C/P.**  > buttons as you use the ▼ and ▲ buttons on the remote control. (Without the Remote Control, you can turn on the TV by using the Channel buttons.)

#### 5. Speakers

#### 6. Remote Control Sensor

Aim the remote control towards this spot on the TV.

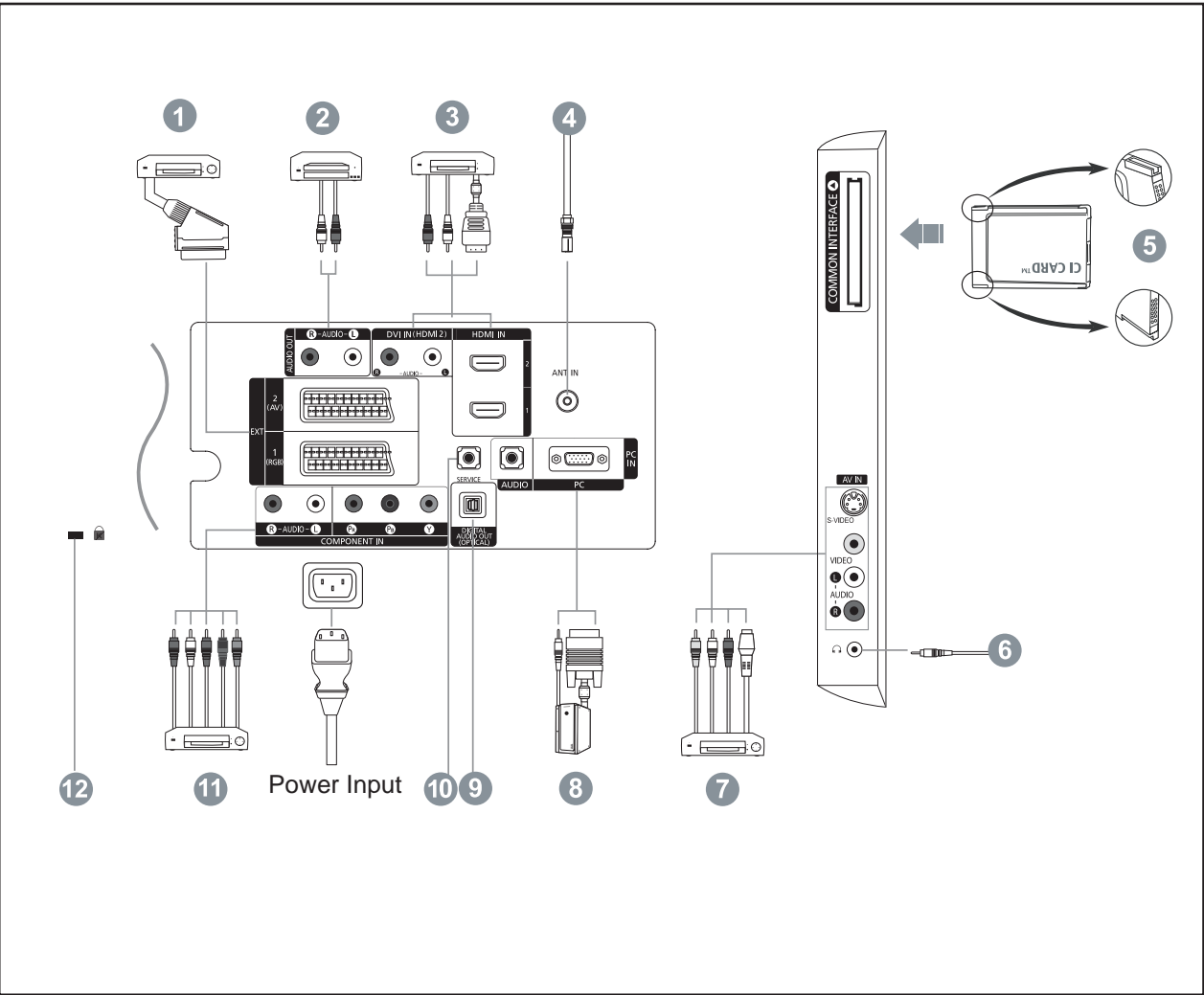
#### 7. (Power)

Press to turn the TV on and off.

#### 8. Power Indicator

Blinks and turns off when the power is on and lights up in stand-by mode.

10-2 Connection Panel



- Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
- When connecting an external device, match the colour of the connection terminal to the cable.

1. Connecting Set-Top Box, VCR or DVD

Connector	Input			Output
	Video	Audio (L/R)	RGB	Video + Audio (L/R)
EXT 1	O	O	O	Only TV or DTV output is available.
EXT 2	O	O		Output you can choose.

- Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

2. Connecting AUDIO

- Connect RCA audio cables to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio in connectors on the Amplifier or DVD Home Theater.

**3. HDMI IN 1, HDMI IN 2**

- Supports connections between HDMI-connection-enabled AV devices (Set-Top Boxes, DVD players).
  - No additional Audio connection is needed for an HDMI to HDMI connection.
    - ▶ What is HDMI?
      - "High Definition Multimedia interface" allows the transmission of high definition digital video data and multiple channels of digital audio ( 5.1 channels).
      - The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied).
- The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

**DVI IN (HDMI2) (AUDIO R/L)**

- When connecting this product via HDMI or DVI to a Set Top Box, DVD Player or Games Console etc, make sure that it has been set to a compatible video output mode as shown in the table below. Failure to observe this may result in picture distortion, image breakup or no picture.
- When using an HDMI/DVI cable connection, it is only possible from the HDMI 2 terminal.
  - ▶ You should use the DVI-to-HDMI cable or DVI-HDMI Adapter for the connection, and the "R - AUDIO - L" terminal on DVI for sound output.
  - ▶ Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i
50Hz	X	X	X	O	O	O
60Hz	X	O	X	X	O	O
Component	O	O	O	O	O	O

**4. Connecting an Aerial or Cable Television Network**

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial / A cable television network / A satellite network

**5. Connecting CI (Common Interface) CARD**

- When not inserting "CI CARD" in some channels, "Scrambled Signal" is displayed on the screen.
  - The pairing information containing a telephone number, CI CARD ID, Host ID and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
  - When the channel information configuration has finished, the message "Updating Completed" is displayed, indicating that the channel list is now updated.
    - ▶ You must obtain a CI CARD from a local cable service provider.
- Remove the CI CARD by carefully pulling it out with your hands since dropping the CI CARD may cause damage to it.

**7. Connecting External A/V Devices**

- Connect RCA or S-VIDEO cable to an appropriate external A/V device such as VCR, DVD or Camcorder.
- Connect RCA audio cables to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the A/V device.
- Headphone may be connected to the headphone output ( **6** ) on the rear of your set. While the headphone is connected, the sound from the built-in speakers will be disabled.

**8. Connecting Computer**

- Connect the D- Sub cable (optional) to "PC (PC IN)" on the rear of your set and the other end to the Video Card of your computer.
- Connect the stereo audio cable (optional) to "AUDIO (PC IN)" on the rear of your set and the other end to "Audio Out" of the sound card on your computer.

**9. DIGITAL AUDIO OUT (OPTICAL)**

- Connect to a Digital Audio Component.

**10. SERVICE**

- Service connection for qualified service engineer.



## 10 Operating Instructions and Installation

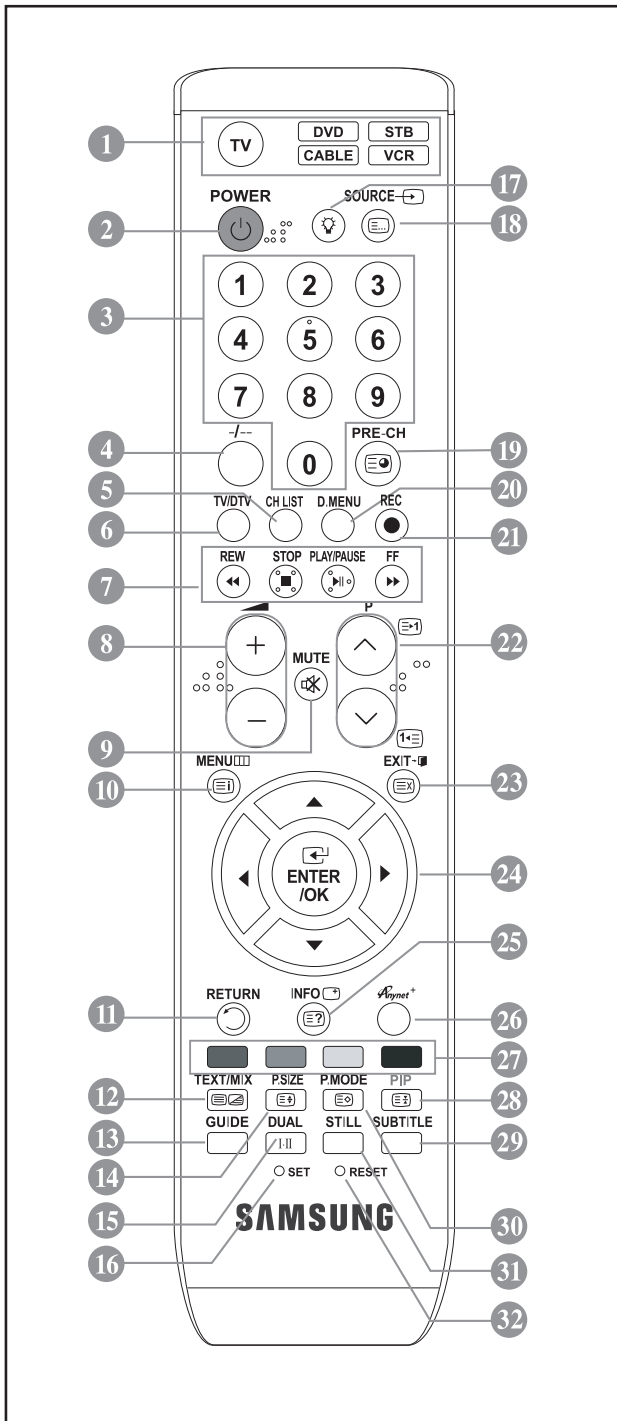
### 11. Connecting Component Devices (DTV/DVD)

- Connect component video cables (optional) to component connector ("Pr", "Pb", "Y") on the rear of your set and the other ends to corresponding component video out connectors on the DTV or DVD.
- If you wish to connect both the Set-Top Box and DTV (or DVD), you should connect the Set-Top Box to the DTV (or DVD) and connect the DTV (or DVD) to component connector ("Pr", "Pb", "Y") on your set.
- The PR, PB and Y connectors on your component devices (DTV or DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
- Connect RCA audio cables (optional) to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the DTV or DVD.
- This LCD TV displays its optimum picture resolution in 720p mode.
- This LCD TV displays its maximum picture resolution in 1 080i mode.

### 12. Kensington Lock

- The Kensington lock (optional) is a device used to physically fix the system when used in a public place.
- If you want to use a locking device, contact the dealer where you purchased the TV.
- The place of the Kensington Lock may be different depending on its model.

## 10-3 Remote Control



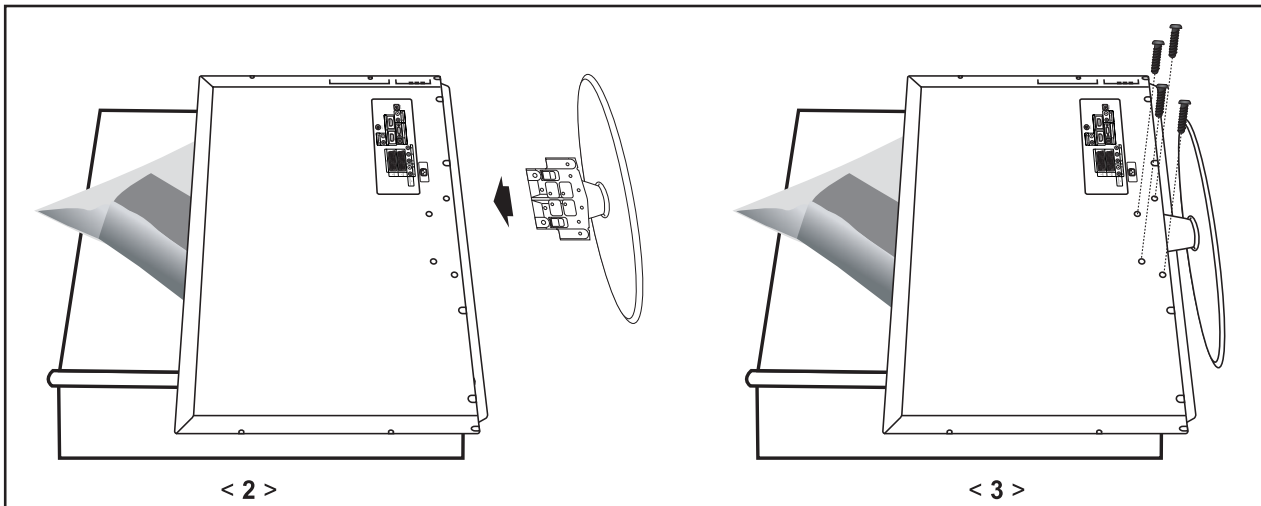
1. Selects a target device to be controlled by the Samsung remote control (TV, DVD, STB, CABLE, VCR)
2. Television Standby button
3. Number buttons for direct channel access
4. One/Two-digit channel selection
5. It display "Channel Manager" on the screen.
6. Selects the TV mode directly
7. VCR/DVD Functions  
Rewind, Stop, Play/Pause, Fast/Forward
8. + Volume increase  
- Volume decrease
9. Temporary sound switch-off
10. Menu display and change confirmation
11. Returns to the previous menu
13. Electronic Program Guide (EPG) display
14. Picture size selection
15. Sound effect selection
16. Adjusts 5 separate devices - TV, DVD, STB, CABLE, or VCR.
17. When pressing this button, a number of buttons on the remote control (e.g. Selects a target device, volume, channel and MUTE buttons) light up for a few seconds and then turn off to save power. This function is to conveniently use the remote control at night or when dark.
18. Available source selection
19. Previous channel
20. DTV menu display
21. Records for Live Broadcasting
22. P : Next channel  
P : Previous channel
23. Exit the OSD
24. Control the cursor in the menu
25. Use to see information on the current broadcast
26. Runs the Anynet view functions and sets up Anynet devices. Please refer to the Anynet Owner's Instruction.
27. Picture size selection
28. Picture-In-Picture On / Off
29. Digital subtitle display
30. Picture effect selection
31. SRS TSXT selection
32. When your remote does not work, change the batteries and press the "RESET" button for 2-3 seconds before use.

**Teletext Functions**

8. Exit from the teletext display
10. Teletext index
12. Alternately select Teletext, Double, or Mix.
14. Teletext size selection
18. Teletext mode selection (LIST/FLOF)
19. Teletext sub page
22. P : Teletext next page  
P : Teletext previous page
23. Teletext cancel
25. Teletext reveal
27. Fasttext topic selection
28. Teletext hold
30. Teletext store

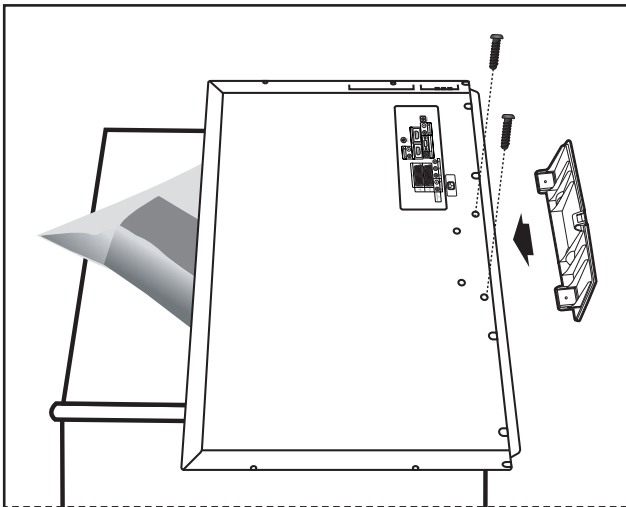
- The performance of the remote control may be affected by bright light.
- This is a special remote contro for the visually impaired, and has Braille points on the Power, Channel and Volume buttons.

## 10-4 Installing the Stand



1. Place the TV faced down on a soft cloth or cushion on a table.
2. Put the stand into the hole at the bottom of the TV.
3. Insert screw into the hole indicated and tighten.
  - ▶ The stand is installed for models with the screen size of 40 inch and above.

## 10-5 Installing the Wall Mount Kit



Wall mount items (sold separately) allow you to mount the TV on the wall.

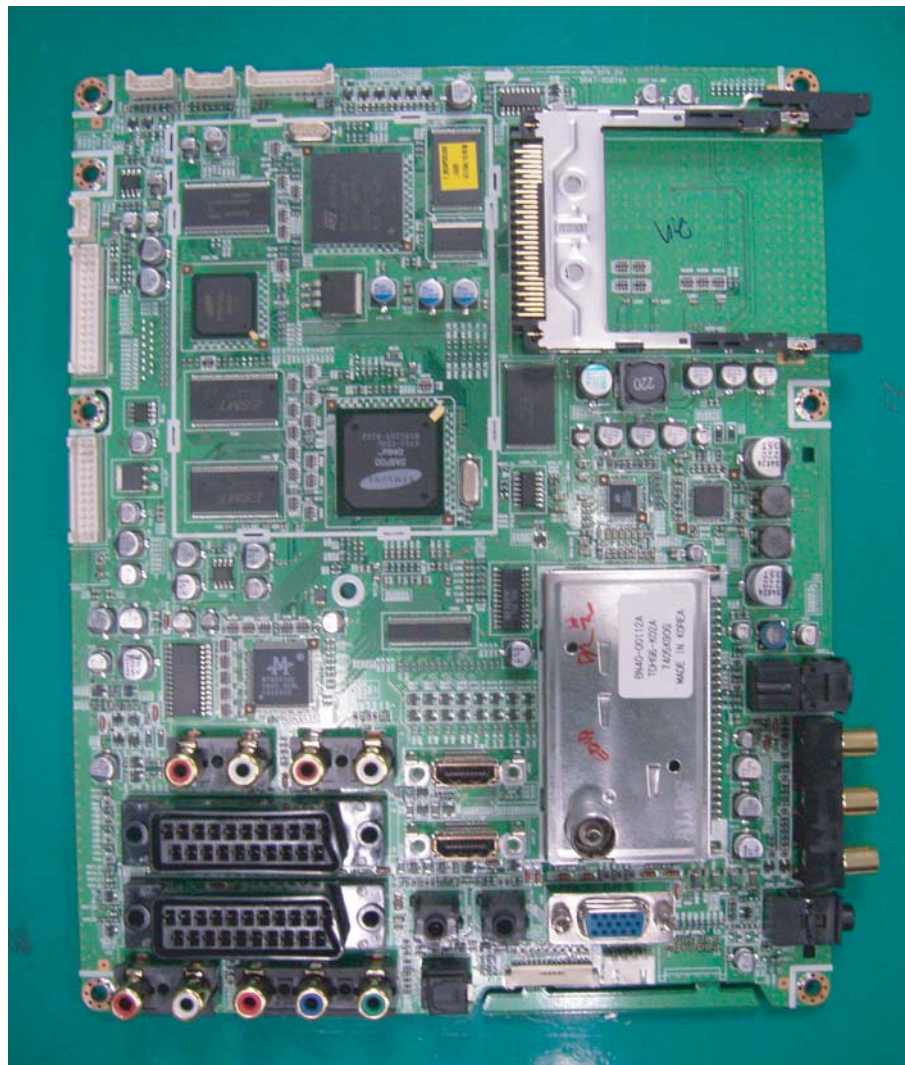
For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

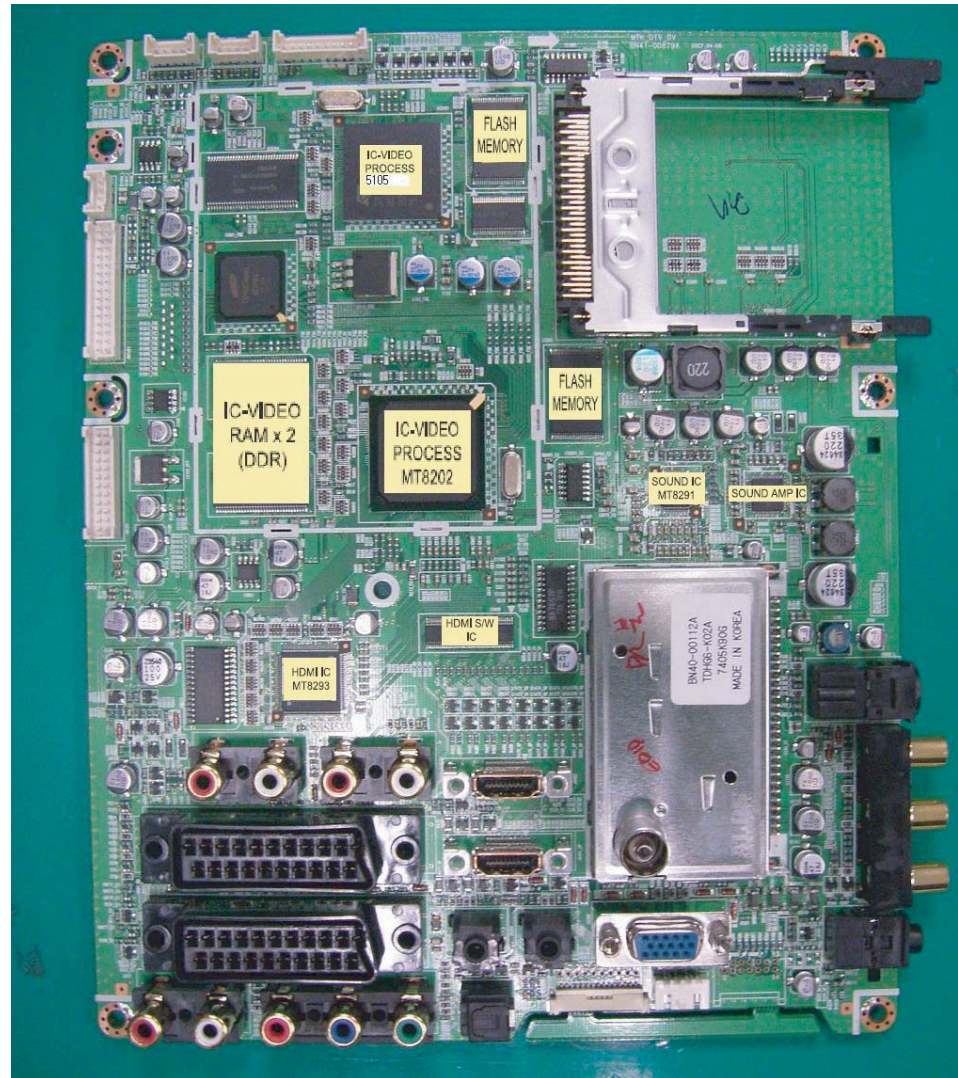
- ▶ Remove the stand and cover the bottom hole with a cap and fasten with two screws.

## 12 PCB Diagram

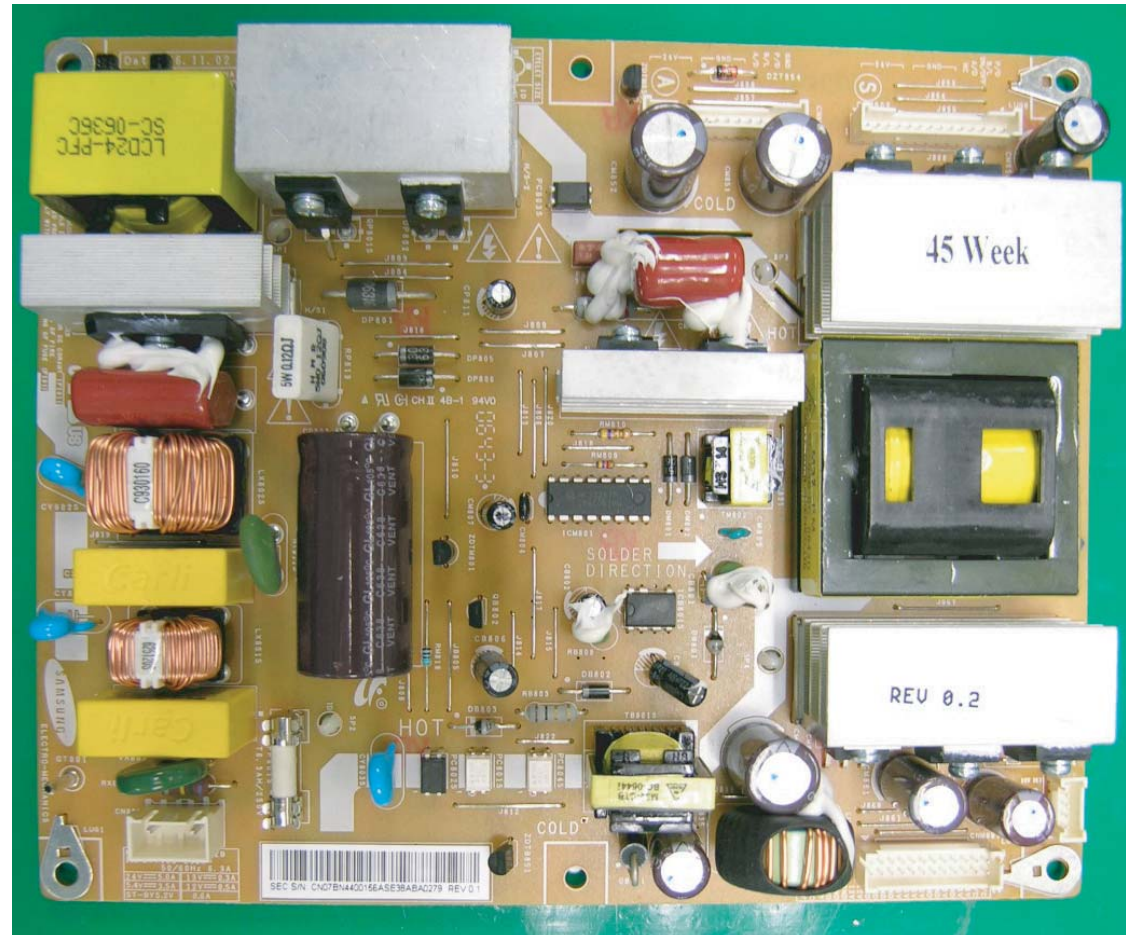
### 12-1 Main PCB Diagram



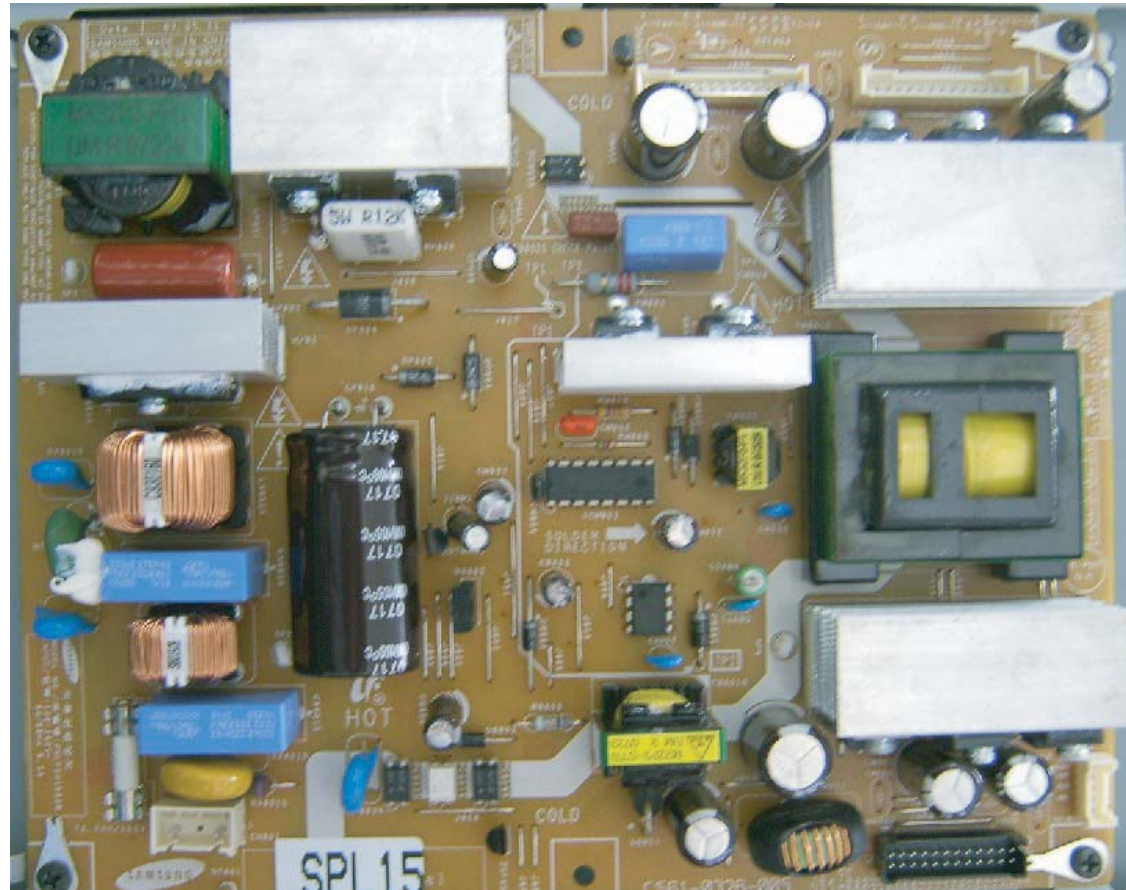




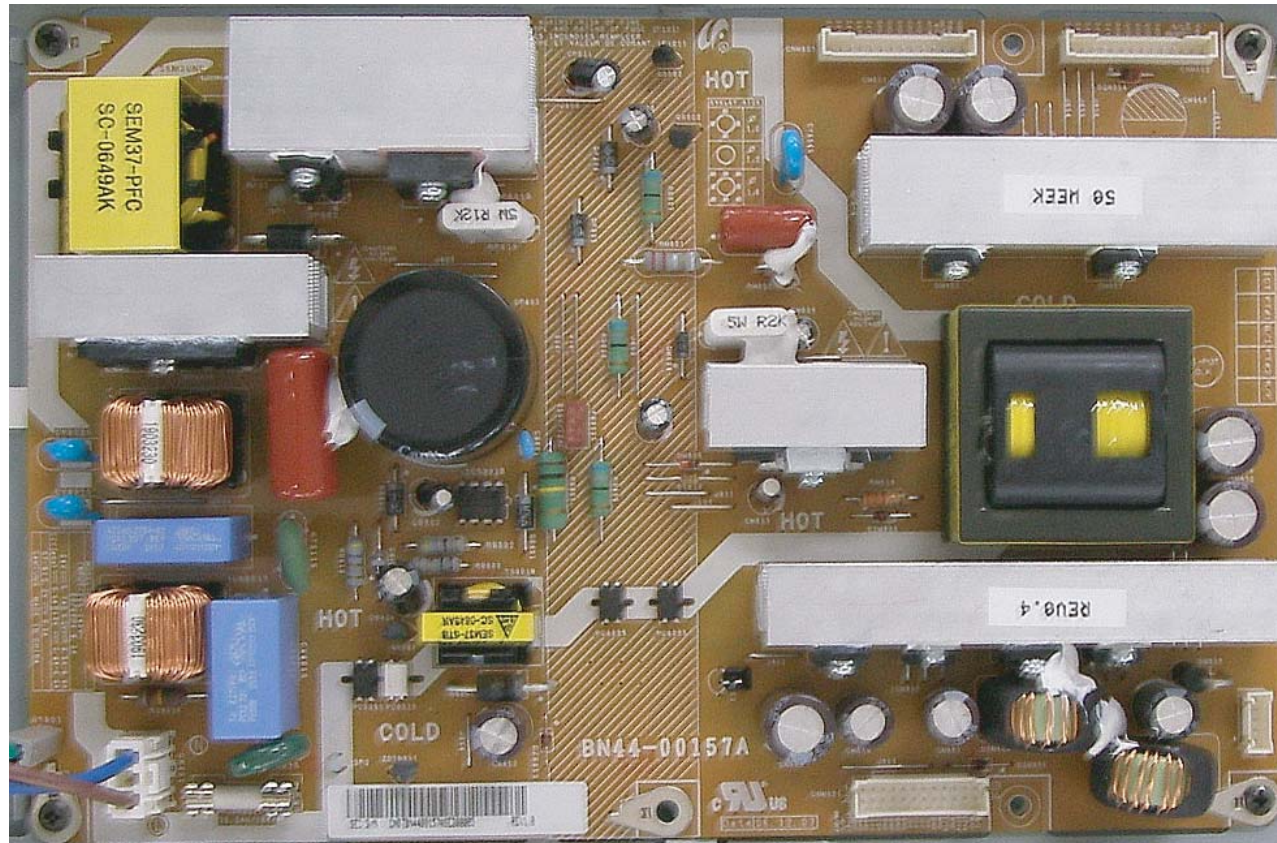
## 12-3 32" SMPS



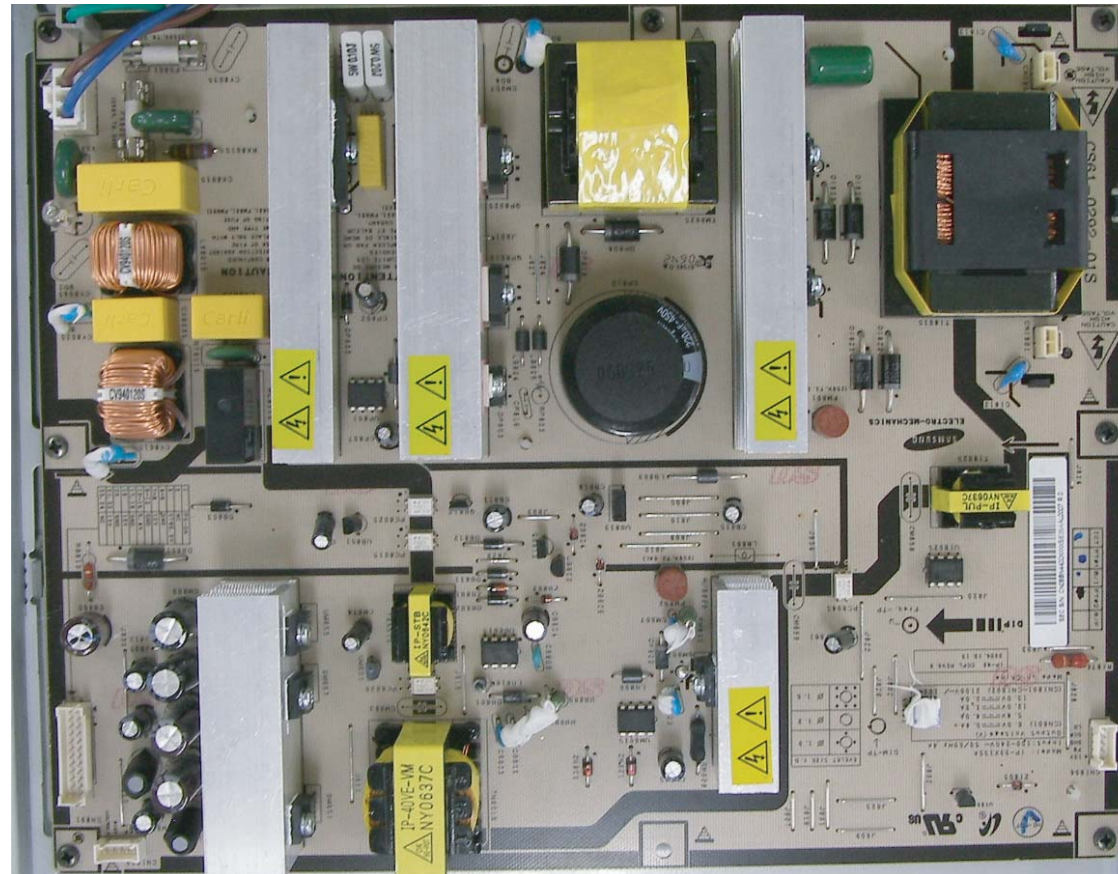




## 12-5 37" SMPS







# 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 Monitor

1. When servicing the LCD Monitor 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 monitor.
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).

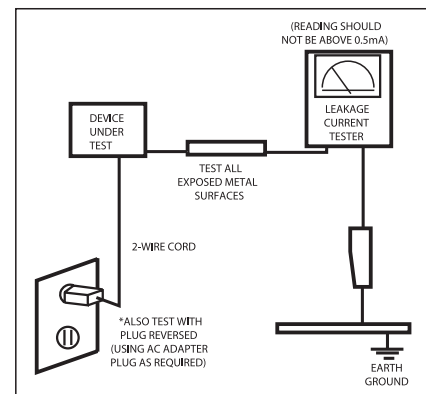


Figure 1-1. Leakage Current Test Circuit

### 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 Precautions

### 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 Static Electricity Precautions

---

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 monitor.
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.

## 1-4 Installation Precautions

---

1. For safety reasons, more than two people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.
4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.
5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the high-voltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space (10cm) between the product and the wall for ventilation purposes.  
A rise in temperature within the product may cause fire.

1 Precautions

Memo

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## 2 Product specifications

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### 2-1 Fashion Feature

#### **Supreme Digital Interface & Networking**

-With a built-in HD digital tuner, it supports HD broadcasting with no particular set-top box and provides simple access with a single remote control.

#### **Excellent Picture Quality**

-DNIe technology provides life-like clear images.

#### **Dynamic Contrast**

-Automatically detects the input visual signal and adjusts to create optimum contrast.

#### **SRS TruSurround XT**

-SRS TruSurround XT provides a virtual Dolby surround system.

#### **Convenience**

-The TV utilizes the HDMI system to implement perfect digital sound and picture quality.

-Supports DVB-CI (Common Interface)

## 2-2 LE32S67BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normaly white, 32-Inch viewable, 0.511 (H) x 0.511 (V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1360 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	697.685(H) x 392.3(V)	
AC power voltage & Frequency	AC 220 ~ 240V, 50 ~ 60 Hz	
Power Consumption	152 W < 1W	
Dimensions(W x D x H) Set	892.5 x 249.0 x 615.0mm (35.13 x 9.8 x 24.21 inches)_After installation Stand 892.5 x 82.0 x 544.0mm (35.13 x 3.22 x 21.41 inches)_Without stand	
Weight Set(After installation Stand)	13.9 kg (30.6 lbs)	
TV System	Tuning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antenna Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 10W / Left : 10W -BASS Control Range : -8 dB ~ + 8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	



## 2-3 LE37S67BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 37-Inch viewable, 0.6 (H) x 0.6 (V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1360 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	556.4 mm / 339.8 mm	
AC power voltage & Frequency	AC 220 ~ 240V, 50 ~ 60 Hz	
Power Consumption	152 W < 1W	
Dimensions(W x D x H) Set	1026.5 x 330.0 x 698.8mm (40.4 x 13.0 x 27.5 inches)_After installation Stand 1026.5 x 94.1 x 626.1mm (40.4 x 3.7 x 24.6 inches)_Without stand	
Weight Set(After installation Stand)	21.5 kg (47.4 lbs)	
TV System	Tuning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antenna Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 10W / Left : 10W -BASS Control Range : -8 dB ~ +8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency :                      RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	



## 2-4 LE40S67BD Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 40-Inch viewable, 0.648(H) x 0.216(V) mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 61 kHz (Automatic) / Vertical : 60 Hz ~ 75 Hz (Automatic)	
Display Colors	16,777,216 colours	
Maximum Resolution	Horizontal : 1360 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	556.4 mm / 339.8 mm	
AC power voltage & Frequency	AC 220 ~ 240V, 50 ~ 60 Hz	
Power Consumption	190 W < 1W	
Dimensions(W x D x H) Set	1100.5 x 330.0 x 732.5mm (43.32 x 12.99 x 28.83 inches)_After installation Stand 1100.5 x 95.0 x 661.0mm (43.32 x 3.74 x 26.02 inches)_Without stand	
Weight Set(After installation Stand)	23.7 kg (52.2 lbs)	
TV System	Tuning	Frequency Synthesize
	System	PAL, SECAM
	Sound	MONO, STEREO, NICAM
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
Antenna Input	75 $\Omega$	
Sound Characteristic	-MAX Internal speaker Out : Right : 10W / Left : 10W -BASS Control Range : -8 dB ~ +8dB -TREBLE Control Range : -8 dB ~ +8 dB -Headphone Out : 10 mW MAX -Output Frequency : RF : 80 Hz ~ 15 kHz AV : 80 Hz ~ 20 kHz	


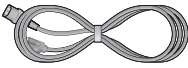

## 2-5 DTV Specification

DTV																	
Category	Functions	UK	GERMANY	France	Italy	Spain	Sweden	Finland									
SYSTEM	Broadcasting system	DVB-T	DVB-T	DVB-T	DVB-T	DVB-T	DVB-T	DVB-T									
	Video format	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)	MPEG-2 (MP@ML)									
	Audio format	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II	MPEG-1 audio layer I, II									
	Operational Bands	UHF	VHF/UHF	VHF/UHF	VHF/UHF	UHF	UHF	UHF									
	Channel Range	21 ~ 68	5 ~ 12, 21 ~ 69	5 ~ 10, 21 ~ 69	3~13(A-H2), 21~69	21~69	21 ~ 69	21 ~ 69									
Channel Parameters	Channel Bandwidth	8MHz	VHF-7, UHF-8	VHF-8, UHF-8	VHF-7, UHF-8	UHF-8	8MHz	8MHz									
	IFFT	2K/8K	2K/8K	2K/8K	2K/8K	8K	2K/8K	2K/8K									
	Constellation	64/16QAM, QPSK	64/16QAM, QPSK	64/16QAM, QPSK	64/16QAM, QPSK	64/16QAM, QPSK	64/16QAM, QPSK	64/16QAM, QPSK									
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8									
	Guard Interval	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32									
EPG	Now/Next	0	0	0	0	0	0	0									
	Scheduled EPG	0	0	0	0	0	0	0									
SI	LCN	0	X	0	X	X	0	0									
	Dynamic SI	0	X	X	X	X	0	0									
CA	Replacement Service	X	X	X	X	X	0	0									
	CI	O(TopUpTV)	0	0	0	planned	0	0									
System software upgrade	Embedded CAS	X	X	X	X	planned	X	X									
	Parental Lock	0	0	0	△	planned	0	0									
	BBC OTA	0	X	X	X	X	X	X									
	DVB SSU	X	Enhanced profile	Simple profile	Simple profile	Simple profile	Simple profile	Simple profile									
	MHP	O( Ver. 1.06 )	X	X	X	X	X	X									
Data Service	Time zone setting	X	X	X	△	0	X	X									
	DVB subtitle	0	X	0	X	0	0	0									
	Teletext	X	0	0	0	O (TELETEXT 1.5 LEVEL)	0	0									
	AC3	X	X	X	X	X	X	X									
	VPS	X	0	X	X	X	X	X									
Add-on services	AFD	0	X	X	X	Optional	X	X									
	Channel list	0	0	0	0	0	0	change									
	Auto store	0	0	0	0	0	0	0									
	Manual store	0	0	0	0	0	0	0									
	Language selection	0	0	0	0	0	0	0									
Etc	SPDIF OUT	0	0	0	0	0	0	0									
	PCM/CIA (Type II)	0	0	0	0	0	0	0									
	RS-232 (Phone Jack)	0	0	0	0	0	0	0									
	Modem	X	X	X	X	0	X	X									
	Smart Card	X	X	X	0	0	X	X									

## 2-6 Spec Comparison

Model	LE32R86BD/LE37R86BD/ LE40R86BD	LE32S67BD/LE40S67BD/LE46S67BD
Design		
<b>Frequency</b> Horizontal Vertical Display Color	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors
<b>PC Resolution</b> Maximum mode	WXGA, 1366 x 768 @ 60 Hz	WXGA, 1360 x 768 @ 60 Hz
<b>Input Signal</b> Sync Signal Video Signal	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75ohm	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75ohm
<b>Power Consumption</b> Normal Power Saving	150W / 170W / 190W < 1W	152W / 170W / 190W < 1W

## 2-7 Option Specification

Item	Item Name	Code.No	Remark
	Remote Control & Batteries (AAA x 2)	BN59-00611A	
	Power Cord	3903-000193 (Only for U.K)  3903-000145	
	Cleaning Cloth	BN63-001798A	
	Owner's Instructions	BN68-01147F	
	Stand	32" : BN90-00967A 37" : BN90-00966A 40" : BN90-00966A	
	Cover-Bottom	32" : BN63-02415B 37" : BN63-02416B 40" : BN63-02416B	

## Memo

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## 14 Reference Information

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### 14-1 Technical Terms

#### - TFT-LCD

##### (Thin film Transistor Liquid Crystal Display)

ADC(Analog to Digital Converter)

This is a circuit that converts from analog signal to digital signals.

#### - PLL(Phase Locked Loop)

During progressing ADC, Device makes clock synchronizing HSYNC with Video clock

#### - Inverter

Device that supply Power to LCD panel lamp. this device generate about 1,500~2,000V.

#### - AC Adapter

Device that converts AC(90V~240V) to DC(+12V or 14V)

#### - SMPS(Switching Mode Power Supply)

Switching Mode Power supply. This design technology is used to step up/down the input power by switching on/off

#### - FRC(Frame Rate Controller)

Technology that change image frame quantity displayed on screen for one second.

Actually TFT-LCD panel require 60 pcs of frame for one second.

so, this technology is needed to convert input image to 60 pcs regardless input frame quantity.

#### - Image Scaler

Technology that convert various input resolution to other resolution.(ex. 640\* 480 to 1024\*768)

#### - Auto Configuration(Auto adjustment)

This is an algorithm to adjust monitor to optimum condition by pushing one key.

#### - OSD(On Screen Display)

On screen display. customer can control the screen easily with this.

#### - Image Lock

This means "Fineness adjustment" in LCD Monitor, the features are "Fine" and "Coarse"

#### - FINE

"Fine" adjustment is used to adjust visibility by control phase difference.

#### - COARSE

This is a adjustment by tuning with Video clock and PLL clock.

#### - L.V.D.S.(Low Voltage Differential Signaling)

a kind of transmission method for Digital. It can be used from Main PBA to Panel.

#### - DVI (Digital Visual Interface)

This provides a high speed digital connection for visual data types that is display technology independent. this interface is primarily focused at providing a connection between a computer and its display device.

#### - T.M.D.S

##### (Transition minimized Differential Signaling)

a kind of transmission method for Digital.

It can be used from Video card to Main PBA.



**- DDC(Display data channel)**

It is a communication method between Host Computer and related equipment.

It can make it Plug and Play between PC and Monitor.

**- EDID**

Extended Display Identification Data PC can recognize the monitor information as Product data, Product name, Display mode, Serial number and Signal source, etc through DDC Line communicating with PC and Monitor.

**- Dot Pitch**

The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'.

Unit: mm

**- Vertical Frequency**

The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz

**Example:** If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

**- Horizontal Frequency**

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

**- Interlace and Non-Interlace Methods**

Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

**- Plug & Play**

This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

**- Resolution**

The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

**Example:** If the resolution is 1280 x 1024, this means the screen is composed of 1280 horizontal dots (horizontal resolution) and 1024 vertical lines (vertical resolution).

**- BTSC**

Broadcast Television System Committee  
The stereo broadcasting system that is used in most of the countries that have adopted the NTSC system, including the United States, Canada, Chile, Venezuela and Taiwan. It also refers to the organization that has been organized to promote its development and management.

**- EIAJ**

Electronic Industries Association of Japan.

**- RF Cable**

A round signal cable generally used for TV antennas.

**- Satellite Broadcasting**

Broadcasting service provided via satellite. Enables high picture quality and clear sound throughout the country regardless of the location of the viewer.

**- Sound Balance**

Balances the levels of the sound coming from each speaker in televisions with two speakers.

**- Cable TV**

Whereas the terrestrial broadcasting is delivered via frequency signals through the air, cable broadcasting is transmitted via a cable network. In order to view cable TV, one must purchase a cable receiver and hook it up to the cable network.

**- CATV**

"CATV" refers to the broadcasting service offered at hotels, schools and other buildings through their own broadcasting system, apart from VHF or UHF broadcasting by terrestrial broadcasters. The CATV programs may include movies, entertainment and educational programs. (Different from cable TV.)

CATV can be viewed only within the area in which the CATV service is offered.

**- S-Video**

Short for "Super Video." S-Video allows up to 800 lines of horizontal resolution, enabling high-quality video.

**- VHF/UHF**

VHF indicates TV channels 2 to 13, and UHF indicates channels 14 through 69.

**- Channel Fine Tuning**

This feature allows the viewer to fine-tune the TV channel to obtain the best viewing conditions. The Samsung LCD TV has both automatic and manual channel fine-tuning features to enable the viewer to adjust their desired settings.

**- External Device Input**

External device input refers to video input from such external video devices as VCRs, camcorders and DVD players, separate from a TV broadcast.

## 14-2 Pin Assignments

## 14-2-1 DVI-D

Pin No.	Sync Type	24P DVI-D	
1		Rx2-	13 NC
2		Rx2+	14 DDC Input power (+5V)
3		GND	15 IDENT-DVI
4		NC	16 Output Signal (HDCP Control)
5		NC	17 Rx0-
6		DDC - SCL	18 Rx0+
7		DDC - SDA	19 GND
8		NC	20 NC
9		Rx1-	21 NC
10		Rx1+	22 GND
11		GND	23 RxC+
12		NC	24 RxC-

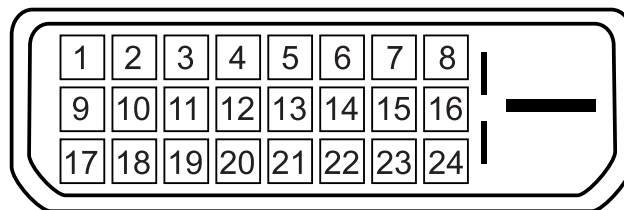


Figure 1.

## 14-2-2 Component

RCA Green	Y
	GND
RCA Blue	Pb (Cb)
	GND
RCA Red	Pr (Cr)
	GND
RCA White	Audio L
	GND
RCA Red	Audio R
	GND

## 14-2-3 S-Video

Pin	Separate
1	GND
2	Y
3	C
4	GND
5	GND

## 14-2-5 D-SUB

Pin	Separate
1	Red
2	Green
3	Blue
4	GND
5	GND
6	GND Red
7	GND Green
8	GND Blue
9	DDC Input power(+5V)
10	IDENT PC
11	GND
12	DDC Data(SDA)
13	H SYNC
14	V SYNC
15	DDC Clock(SCL)

## 14-2-4 A/V

RCA Yellow	CVBS
RCA White	Audio L
	GND
RCA Red	Audio R
	GND

## 14-2-6 PC Display mode

Both screen position and size will vary depending on the type of PC monitor and its resolution.

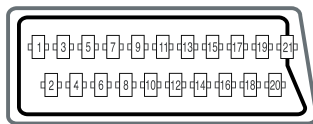
The resolutions in the table are recommended. (All resolutions between the supported limits are supported)

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 480	31.469	59.940	25.175	- / -
	720 x 400	31.469	70.087	28.322	- / +
VESA	640 x 480	37.861	72.809	31.500	- / -
	640 x 480	37.500	75.000	31.500	- / -
	800 x 600	37.879	60.317	40.000	+ / +
	800 x 600	48.077	72.188	50.000	+ / +
	800 x 600	46.875	75.000	49.500	+ / +
	1024 x 768	48.364	60.000	65.000	- / -
	1024 x 768	56.476	70.069	75.000	- / -
	1024 x 768	60.023	75.029	78.750	+ / +
	1360 x 768	47.712	60.015	85.800	+ / +

- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- DVI does not support PC function.

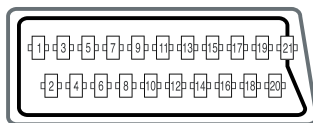
## 14 Reference Information

### 14-2-7 Scart 1



Pin	Signal	Pin	Signal
1	Audio output R	12	NC
2	Audio input R	13	Video GND (RGB red)
3	Audio output L	14	GND
4	Audio common GND	15	RGB red input
5	Video GND (RGB blue)	16	Fast Blanking signal (RGB switching)
6	Audio input L	17	Video output GND
7	RGB blue input	18	Video input GND
8	Switching voltage	19	Video output (CVBS out)
9	Video GND (RGB green)	20	Video input (CVBS in)
10	NC	21	Common GND
11	RGB green input		

### 14-2-8 Scart 2



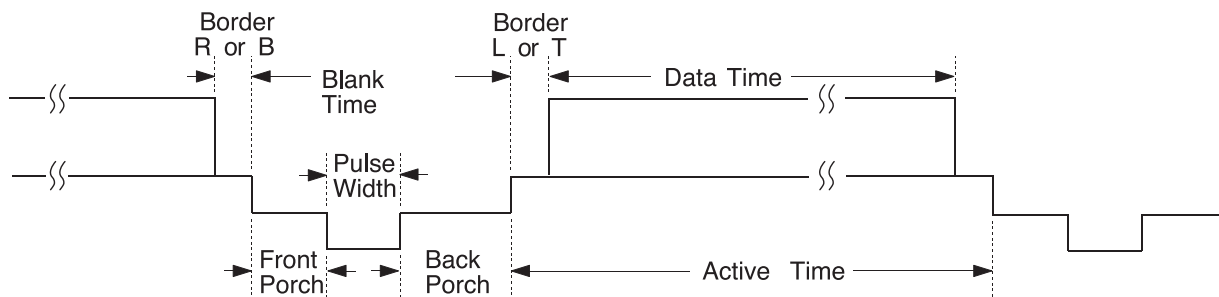
Pin	Signal	Pin	Signal
1	Audio output R	12	NC
2	Audio input R	13	Video GND (RGB red)
3	Audio output L	14	GND
4	Audio common GND	15	RGB red input
5	Video GND (RGB blue)	16	NC
6	Audio input L	17	Video output GND
7	RGB blue input	18	Video input GND
8	Switching voltage	19	Video output (CVBS out)
9	Video GND (RGB green)	20	Video input (CVBS in)
10	NC	21	Common GND
11	RGB green input		

## 14-3 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

### 14-3-1 LCD Panel Mode1 mode

Timing No.	LTA400W2
Originator	VESA
Mode Name	1366/60Hz
Resolution (HxV)	1366x768
HORIZONTAL	
Frequency	47.712kHz
Total time	20.959 $\mu$ s
Active time	15.906 $\mu$ s
Blank time	5.053 $\mu$ s
Border(L / R)	0.000 $\mu$ s
Data time	15.906 $\mu$ s
Front porch	0.749 $\mu$ s
Sync. width	1.702 $\mu$ s
Back porch	2.994 $\mu$ s
Sync. polarity	Positive
VERTICAL	
Frequency	60.015Hz
Total time	16.662 ms
Active time	16.097 ms
Blank time	0.566 ms
Border(T / B)	0.000 ms
Data time	16.097 ms
Front porch	0.063 ms
Sync. width	0.105 ms
Back porch	0.377 ms
Sync polarity	Positive
Dot Clock	85.500MHz
Sync. Type	Separate
Scan Type	N/I



## 14-3-2 Supported Modes (1)

Timing No.	2	3	11	17	32
Originator	IBM	IBM	VESA	VESA	MAC
Mode Name	VGA2	VGA3	640/72Hz	640/75Hz	640/67Hz
Resolution (HxV)	720x400	640x480	640x480	640x480	640x480
HORIZONTAL					
Frequency	31.469kHz	31.469kHz	37.861kHz	37.500kHz	35.000kHz
Total time	31.777μs	31.778μs	26.413μs	26.667μs	28.571μs
Activetime	26.058μs	26.058μs	20.825μs	20.317μs	21.164μs
Blank time	5.720μs	5.720μs	5.588μs	6.350μs	7.407μs
Border(L / R)	0.318μs	0.318μs	0.254μs	0.000μs	0.000μs
Data time	25.422μs	25.422μs	20.317μs	20.317μs	21.164μs
Front porch	0.318μs	0.318μs	0.508μs	0.508μs	2.116μs
Sync. width	3.813μs	3.813μs	1.270μs	2.032μs	2.116μs
Back porch	1.589μs	1.589μs	3.810μs	3.810μs	3.175μs
Sync. polarity	Negative	Negative	Negative	Negative	Negative
VERTICAL					
Frequency	70.087Hz	59.940Hz	72.809Hz	75.000Hz	66.667Hz
Total time	14.268ms	16.683ms	13.735ms	13.333ms	15.000ms
Active time	13.155ms	15.761ms	13.100ms	12.800ms	13.714ms
Blank time	1.113ms	0.922ms	0.635ms	0.533ms	1.286ms
Border(T / B)	0.222ms	0.254ms	0.211ms	0.000ms	0.000ms
Data time	12.711ms	15.253ms	12.678ms	12.800ms	13.714ms
Front porch	0.191ms	0.064ms	0.026ms	0.027ms	0.086ms
Sync. width	0.064ms	0.064ms	0.079ms	0.080ms	0.086ms
Back porch	0.858ms	0.794ms	0.528ms	0.427ms	1.114ms
Sync. polarity	Positive	Negative	Negative	Negative	Negative
Dot Clock	28.322MHz	25.175MHz	31.500MHz	31.500MHz	30.240MHz
Sync. Type	Separate	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I	N/I



## 14-3-3 Supported Modes (2)

Timing No.	13	14	18
Originator	VESA	VESA	VESA
Mode Name	800/60Hz	800/72Hz	800/75Hz
Resolution (HxV)	800x600	800x600	800x600
HORIZONTAL			
Frequency	37.879kHz	48.077kHz	46.875kHz
Total time	26.400 $\mu$ s	20.800 $\mu$ s	21.333 $\mu$ s
Activetime	20.000 $\mu$ s	16.000 $\mu$ s	16.162 $\mu$ s
Blank time	6.400 $\mu$ s	4.800 $\mu$ s	5.171 $\mu$ s
Border(L / R)	0.000 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s
Data time	20.000 $\mu$ s	16.000 $\mu$ s	16.162 $\mu$ s
Front porch	1.000 $\mu$ s	1.120 $\mu$ s	0.323 $\mu$ s
Sync. width	3.200 $\mu$ s	2.400 $\mu$ s	1.616 $\mu$ s
Back porch	2.200 $\mu$ s	1.280 $\mu$ s	3.232 $\mu$ s
Sync. polarity	Positive	Positive	Positive
VERTICAL			
Frequency	60.317Hz	72.188Hz	75.000Hz
Total time	16.579ms	13.853ms	13.333ms
Active time	15.840ms	12.480ms	12.800ms
Blank time	0.739ms	1.373ms	0.533ms
Border(T / B)	0.000ms	0.000ms	0.000ms
Data time	15.840ms	12.480ms	12.800ms
Front porch	0.026ms	0.770ms	0.021ms
Sync. width	0.106ms	0.125ms	0.064ms
Back porch	0.607ms	0.478ms	0.448ms
Sync polarity	Positive	Positive	Positive
Dot Clock	40.000MHz	50.000MHz	49.500MHz
Sync. Type	Separate	Separate	Separate
Scan Type*	N/I	N/I	N/I

## 14-3-4 Supported Modes (3)

Timing No.	15	16	19	
Originator	VESA	VESA	VESA	VESA
Mode Name	1024/60Hz	1024/70Hz	1024/75Hz	1360/60Hz
Resolution (HxV)	1024x768	1024x768	1024x768	1360x768
HORIZONTAL				
Frequency	48.363kHz	56.476kHz	60.023kHz	47.712kHz
Total time	20.677 $\mu$ s	17.707 $\mu$ s	16.660 $\mu$ s	20.959 $\mu$ s
Activetime	15.754 $\mu$ s	13.653 $\mu$ s	13.003 $\mu$ s	15.906 $\mu$ s
Blank time	4.923 $\mu$ s	4.053 $\mu$ s	3.777 $\mu$ s	5.053 $\mu$ s
Border(L / R)	0.000 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s	0.000 $\mu$ s
Data time	15.754 $\mu$ s	13.653 $\mu$ s	13.003 $\mu$ s	15.906 $\mu$ s
Front porch	0.369 $\mu$ s	0.320 $\mu$ s	0.323 $\mu$ s	0.749 $\mu$ s
Sync. width	2.092 $\mu$ s	1.813 $\mu$ s	1.219 $\mu$ s	1.702 $\mu$ s
Back porch	2.462 $\mu$ s	1.920 $\mu$ s	2.235 $\mu$ s	2.994 $\mu$ s
Sync. polarity	Negative	Negative	Positive	Positive
VERTICAL				
Frequency	60.004Hz	70.069Hz	75.029Hz	60.015Hz
Total time	16.666ms	14.272ms	13.328ms	16.662ms
Active time	15.880ms	13.599ms	12.795ms	16.097ms
Blank time	0.786ms	0.672ms	0.533ms	0.566ms
Border(T / B)	0.000ms	0.000ms	0.000ms	0.000ms
Data time	15.880ms	13.599ms	12.795ms	16.097ms
Front porch	0.062ms	0.053ms	0.017ms	0.063ms
Sync. width	0.124ms	0.106ms	0.050ms	0.105ms
Back porch	0.600ms	0.513ms	0.466ms	0.377ms
Sync polarity	Negative	Negative	Positive	Positive
Dot Clock	65.000MHz	75.000MHz	78.750MHz	85.500MHz
Sync. Type	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I

## 14-4 Panel Description

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
SEC	LT140X1-002	BN07-00004A	SA	BN68-00239H	-
SEC	LT150XS-L01	BN07-00009A	SB		-
SEC	LT150XS-L01-B	BN07-00022A	SC		-
SEC	LTM150XS-L02	BN07-00005A	SD		-
SEC	LT181E2-132	BN07-00001A	SE		-
SEC	LT150XS-T01	BN07-00010A	SF		-
SEC	LTM181E3-132	BN07-00019A	SG		-
SEC	LT170E2-131	BN07-10001D	SH		-
SEC	LT181E2-131	BN07-10001E	SJ		-
SEC	LTM170E4-L01	BN07-00018A	SK		-
SEC	LTM240W1-L01	BN07-00015A	SL		-
SEC	LTM213U3-L01	BN07-00016A	SM		-
SEC	LTM150XH-L01	BN07-00026A	SN		-
SEC	LTM150XH-L03	BN07-00027A	SP		-
SEC	LTM150XS-L01	BN07-00032A	SQ		DELL(ZPD)
SEC	LTM181E4-L01	BN07-00034A	SR		PVA
SEC	LTM170EH-L01	BN07-00036A	SS		TN
SEC	LTM170E5-L01	BN07-00037A	SU		PVA
SEC	LTM150XH-L11	BN07-00041A	SV		-
SEC	LTM213U4-L01	BN07-00039A	SW		PVA
SEC	LTM150XH-L01(ZPD)	BN07-00045A	SX		ZPD
SEC	LTM150XH-L04	BN07-00046A	SY		New panel with high brightness
SEC	LTM170W1-L01	BN07-00047A	SZ		Panel for TV
SEC	LTM150XH-L06	BN07-00053A	EA		Panel for TV/ High luminance for 450cd _ SONY&EOS Team Panel for
TV					
SEC	LTM153W1-L01	BN07-00054A	EB		Use NIKE MODEL
SEC	LTM170EH-L05	BN07-00055A	EC		Panel EOS proj. for high brightness of 17" EH-L05
SEC	LTM170E5-L03	BN07-00056A	ED		Dell 1702FP pro. E4. EH mechanicalCompatible
SEC	LTM190E1-L01	BN07-00057A	EE		DELL 1900 FP
SEC	LTM181E5-L01	BN07-00061A	EF		18" narrow bezel GH18PS
SEC	LTM150XP-L01	BN07-00065A	EG		AMLCD PVA PANEL
SEC	LTM240W1-L02	BN07-00062A	EH		Panel for 15" Wide TV
SEC	LTM170EU-L01	BN07-00071A	EJ		Slim design, TN
SEC	LTM170E5-L04	BN07-00072A	EK		E5-L04 6 bits FRC... for IBM
SEC	LTA220W1-L01	BN07-00074A	EL		Panel for 22" TV
SEC	LTM170E6-L02	BN07-00075A	EM		AMLCD Narrow & slim design 17" PVAmode
SEC	LTM170W1-L01	BN07-00082A	EN		LTM170W1-L01 ZPD panel
SEC	LTM170EH-L01	BN07-00080A	EP		LTM170EH-L01 ZPD panel
SEC	LTM170E5-L01	BN07-00081A	EQ		LTM170E5-L01 ZPD panel
SEC	LTM170EH-L05	BN07-00083A	ER		LTM170EH-L05 ZPD panel
SEC	LTM170E5-L03	BN07-00084A	ES		LTM170E5-L03 ZPD panel
SEC	LTM170EU-L01	BN07-00085A	ET		LTM170EU-L01 ZPD panel
SEC	LTM170E5-L04	BN07-00086A	EU		LTM170E5-L04 ZPD panel
SEC	LTM170E6-L02	BN07-00087A	EV		LTM170E6-L02 ZPD panel
SEC	LTM150XH-L06	BN07-00091A	EW		Color coordinates change for LCD TV
SEC	LTM153W1-L01	BN07-00092A	EX		AMLCD WIDE 15",9/10
SEC	LTM170W1-L01	BN07-00100A	EY		Color Coordinates change code management
SEC	LTM170EH-L05	BN07-00097A	EZ		LTM170E5-L05 Color Coordinates Change Panel Code
SEC	LTA400W1-L01	BN07-00109A	S1		PANEL of AMLCD 40" TV
SEC	LTM153W1-L01	BN07-00110A	S2		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM150XH-L06	BN07-00111A	S3		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170W1-L01	BN07-00112A	S4		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170EH-L05	BN07-00113A	S5		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM220W1-L01	BN07-00114A	S6		ZPD Panel for AMLCD 22" TV
SEC	LTM150XH-L06	BN07-00117A	S7		ZPD Panel code
SEC	LTM153W1-L01	BN07-00118A	S8		ZPD Panel code
SEC	LTM170WP-L01	BN07-00119A	S9		PVA Panel for NIKE
SEC	LTM213U4-L01	BN07-00039A	E1		21.3" NARROW
SEC	LTA260W1-L01	BN07-00121A	E2		VENUS
SEC	LTA220W1-L01	BN07-00074B	E3		Panel B-level panel code for 22" TV Panel
SEC	LTA320W1-L01	BN07-00108A	E4		Panel for AMLCD 32" TV
SEC	LTM213U4-L01	BN07-00124A	E5		NARROW BEZEL 21 " PANEL
SEC	LTM170E6-L04	BN07-00129A	E6		HIGHLAND 17" LOW PANEL (Panel only for TCO03)
SEC	LTM190E1-L01	BN07-00088A	E7		LTM190E1-L01 ZPD panel
SEC	M150X4-L06	BN07-00137A	E8		15" Narrow & Slim panel

## 14 Reference Infomation

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
SEC	LTA170V1	BN07-00139A	E9		17" Panel for Muse 4:3 VGA TV
SEC	LTM190E1-L02	BN07-00128A	E10		New Panel from AMLCDI, Specification : 6bit Driver IC
SEC	LTM170EX-L01	BN07-00143A	E11		Development new Panel from AMLCD
SEC	LTM170E8-L01	BN07-00144A	E12		Development new Panel from AMLCD
SEC	LTM170E6-L04	BN07-00129B	E13		ZPD panel for AMLCD (Panel only for TCO03)
SEC	LTA320W1-L02	BN07-00108B	E14		Creat B-level Panel code for AMLCD 32" TV
SEC	LTM190E1-L03	BN07-00151A	E15		Development new 19" Panel form AMLCD (Panel only for TCO03)
SEC	LTM240W1-L03	BN07-00134A	E16		AMLCD 24" panel development
SEC	LTM190E1-L02	BN07-00128B	E17		New Panel from AMLCD, Specification : 6bit Driver IC(ZPD)
SEC	LTM190E4-L01	BN07-00145A	E18		AMLCD 24" new panel development
SEC	LTM170E8-L01	BN07-00158A	E19		ZPD code derivation
SEC	LTM170EX-L01	BN07-00159A	E20		ZPD code derivation
SEC	LTM190E1-L03	BN07-00151B	E21		Creat new panel code for AMLCD 19" (Panel only for TCO03)
SEC	LTA460H1-L01	BN07-00157A	E22		creat panel code for AMLCD 46" TV
SEC	LTM170EU-L11	BN07-00160A	E23		creat new panel code for AMLCD 17" (Panel only for TCO03)
SEC	LTM240W1-L03	BN07-00134B	E24		24" panel ZPD code derivation
SEC	LTM190E4-L01	BN07-00145B	E25		AMLCD 19" ZPD Panel code derivation
SEC	LTM240W1-L03	BN07-00134B	E26		24" panel ZPD code derivation
SEC	LTM150XO-L01	BN07-00164A	E27		AMLCD 15" XO-L01 new panel development
SEC	LTM150XO-L01	BN07-00164B	E28		AMLCD 15" XO-L01 ZPD code derivation
SEC	LTM170EU-L11	BN07-00160B	E29		AMLCD 17" NEW panel code derivation
SEC	LTA320W2-L01	BN07-00172A	SPZ		AMLCD 32" NEW panel
SEC	LTM213U4-L01	BN07-00124B	SPZ		21.3" Narrow PANEL ZPD Panel derivation
SEC	LTM170EU-L11	BN07-00189A	STH		AMLCD EU-L11 Pb free panel code derivation
SEC	LTM170EU-L11	BN07-00189B	STZ		AMLCD EU-L11 Pb free panel ZPD code derivation
SEC	LTM240W1-L04	BN07-00188A	SPH		24" A-DCC NEW panel
SEC	LTM240W1-L04	BN07-00188B	SPZ		24" A-DCC panel ZPD code derivation
SEC	LTM190EX-L01	BN07-00191A	STH		AMLCD 19" TN NEW Panel
SEC	LTM190EX-L02	BN07-00191B	STZ		AMLCD 19" TN NEW Panel ZPD
SEC	LTA230W1-L02	BN07-00184A	SPZ		AMLCD 23" 16:9 NEW Panel
SEC	LTA260W2-L01	BN07-00185A	SPZ		AMLCD 26" 16:9 NEW Panel
SEC	LTA400W2-L01	BN07-00186A	SPZ		AMLCD 40" 16:9 NEW Panel
SEC	LTM240M1-L01	BN07-00195A	SPH		24" high brightness panel
SEC	LTM150XO-L01	BN07-00197A	STH		AMLCD 15" XO-L01 Pb free panel code
SEC	LTM150XO-L01	BN07-00197B	STZ		AMLCD 15" XO-L01 Pb free panel ZPD code
SEC	LTM170EU-L21	BN07-00202A	STZ		AMLCD EU-L21 ZPD NEW code derivation
SEC	LTA460W2-L03	BN07-00187A	SPZ		BEETOVEN 46"ZPD NEW Panel
SEC	LTM240M1-L01	BN07-00195B	SPZ		24" high brightness panel ZPD code derivation
SEC	M170EX-L21	BN07-00206A	STZ		AMLCD LTM170EX-L21 ZPD NEW code derivation
SEC	LTA460H3-L01	BN07-00200A	SPZ		AMLCD 46" LED BLU panel
SEC	LTM170EU-L15	BN07-00214A	STZ		High brightness For AMLCD EU-L15 TV ZPD NEW code derivation
SEC	LTM170E8-L21	BN07-00218A	SPZ		AMLCD LTM170E8-L21 PVA ZPD NEW code derivation
SEC	LTM190EX-L21	BN07-00222A	STZ		DISPLAY LCD
SEC	LTM201U1-L01	BN07-00190B	SPZ		AMLCD 20.1" Normal panel ZPD code derivation
SEC	LTM190E4-L21	BN07-00223A	SPZ		HAYDN 17" PZD code PANELderivation
SEC	LTA570H1-L01	BN07-00196A	SPZ		AMLCD 57" NEW Panel
SEC	LTM150XO-L21	BN07-00229A	STZ		AMLCD 15" XO-L21 8ms panel code
SEC	LTA260W2-L11	BN07-00239A	SPZ		AMLCD 26" 16:9 7Line NEW Panel
SEC	LTA400WS-LH1	BN07-00245A	SPZ		AMLCD 40" 16:9 SPVA 90% NEW Panel
SEC	LTM213U6-L01	BN07-00231A	SPZ		AMLCD 21.3" PVA NEW Panel Code
SEC	LTM213U6-L01	BN07-00231B	SPH		AMLCD 21.3" PVA Panel HPD Code
SEC	LTA320WS-LH2	BN07-00244A	SPZ		AMLCD 32" 16:9 SPVA 90% NEW Panel
SEC	LTA400WS-LH1	BN07-00245A	SPZ		AMLCD 40" 16:9 SPVA 90% NEW Panel
SEC	LTM190M2-L01	BN07-00227A	STZ		AMLCD 19" TN Wide NEW Panel Code
SEC	LTM201UX-L01	BN07-00249A	STZ		AMLCD 20.1" TN NEW Panel Code
SEC	LTM240M1-L02-A05	BN07-00250A	SPZ		24" High brightness Slim panel ZPD code derivation
SEC	LTA320W3-L02	BN07-00219A	SPZ		AMLCD 32" NEW FFL Panel
SEC	LTA320W2-L11	BN07-00259A	SPZ		IP Board for AMLCD 32" 16:9 NEW Panel
SEC	LTA460WS-L02	BN07-00252A	SPZ		AMLCD 46" 16:9 SPVA 72% NEW Panel
SEC	LTA400WT-L01	BN07-00264A	SPZ		-
SEC	LTM240M2-L02	BN07-00267A	SPZ		All LCD Monitor 24" wide SPVA ZPD NEW code derivation
SEC	LTM210M2-L02	BN07-00230A	SPZ		-
SEC	LTA320WT-L11	BN07-00257A	SPZ		-
SEC	LTM190EX-L21-G	BN07-00274A	STZ		AMLCD 19" TN Glare NEW Panel Code
SEC	LTA320WT-L14	BN07-00247A	SPZ		-

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
SEC	LTM190M2-L01-D016	BN07-00280A	STZ		AMLCD 19" TN Wide change Gamma Panel Code
SEC	LTM190EX-L31	BN07-00279A	STZ		AMLCD 19" TN NEW Panel Code
SEC	LTM190M2-L02	BN07-00287A	STZ		AMLCD 19" TN Wide High brightness NEW Panel Code
SEC	LTA400WS-L01	BN07-00246A	SPZ		Display-LCD (Div) 07AH
SEC	LTA460WS-L01	BN07-00311A	SPZ		-
SEC	LTM190E4-L31	BN07-00316A	SPZ		-
SEC	LTM170EX-L31	BN07-00278A	STZ		AMLCD LTM170EX-L31 ZPD
SEC	LTA460HS-LH1	BN07-00291A	SPZ		AMLCD 46" 16:9 FHD / 60Hz / 8bit / SPVA 92%
SEC	LTA320WT-LF1	BN07-00323A	SPZ		-
SEC	LTA460WT-L02	BN07-00284A	SPZ		AMLCD 46" 16:9 HD / 60Hz / 8bit / SPVA 72% /
SEC	LTA400WH-LH1	BN07-00271A	SPZ		AMLCD 40" 16:9 SPVA 92% 10bit 120Hz
SEC	LTM240M1-L02-D015	BN07-00331A	SPZ		-
SEC	LTM300M1-P01	BN07-00326A	SPZ		
CPT	CLAA150XG09	BN07-00141A	PA		CPT 15" Monitor new panel development
CPT	CLAA170EA02	BN07-00148A	PB		17" CPT NEW development panel
CPT	CLAA170EA02	BN07-00148B	PC		17" CPT ZPD panel code derivation
CPT	CLAA150XG09	BN07-00141B	PTZ		CPT 15" panel ZPD code derivation (GOYA-PJT)
CPT	CLAA150XP01	BN07-00173A	PTH		CPT 15" PSWG code derivation
CPT	CLAA150XP01	BN07-00173B	PTZ		CPT 15" PSWG panel ZPD code derivation
CPT	CLAA170EA07	BN07-00174A	PTH		CPT 17" PSWG code derivation
CPT	CLAA170EA07	BN07-00174B	PTZ		CPT 17" PSWG type New Panel code
CPT	CLAA170EA07Q	BN07-00220A	PTZ		CPT 17" PSWG R/T 8msec code derivation
CPT	CLAA170EA07Q	BN07-00220B	PTH		CPT 17" PSWG R/T 8msec HPD code derivation
CPT	CLAA150XP01F	BN07-00236A	PTZ		CPT 15" PSWG panel ZPD & Lead free code derivation
CPT	CLAA201WA03Q	BN07-00269A	PTZ		CPT 20.1" wide TN ZPD New code derivation
CPT	CLAA320WA01	BN07-00276A	PMZ		CPT 32" 16:9 MVA 8bit 60Hz / Panel brown
CPT	CLAA170ES01	BN07-00261A	PTZ		CPT 17" Slim TN ZPD Type New code derivation
CPT	CLAA070VA02	BN07-00265A	PTZ		CPT Panel code derivation for Digital Album
TOSHIBA	LTM15C419(A)	BN07-00002A	TA		-
TOSHIBA	LTM15C423(B)	BN07-00006A	TB		-
TOSHIBA	LTM18C161	BN07-00008A	TC		-
TOSHIBA	LTM15C443	BN07-00031A	TD		-
TOSHIBA	LTM15C458	BN07-00043A	TE		-
TOSHIBA	LTM15C458S	BN07-00077A	TF		TSB 15" high brightness Panel
TOSHIBA	LTM15C458	BN07-00078A	TG		Toshiba ZPD panel
TOSHIBA	LTM15C458S	BN07-00099A	TH		TSB LTM15C458S ( ZPD )
HANNSTAR	HSD150MX41A(A)	BN07-00020A	NA		TTL type
HANNSTAR	HSD150MX12	BN07-00030A	NB		TTL type
HANNSTAR	HSD170ME13	BN07-00180A	NTH		Hannstar 17" TN new panel development
HANNSTAR	HSD170ME13	BN07-00180B	NTZ		Hannstar 17" TN new panel development ZPD code derivation
HANNSTAR	HSD190ME12	BN07-00210A	NTZ		Hannstar 19" TN new panel development
HANNSTAR	HSD150MX17-A	BN07-00226A	NTZ		Hannstar 15" slim panel ZPD code derivation
HANNSTAR	HSD190ME12-A10	BN07-00256A	NTZ		Hannstar 19" TN PSWG 8ms new panel development
HANNSTAR	HSD190ME13-D11	BN07-00270A	NTZ		Hannstar 19" TN Slim 5ms new panel development
HANNSTAR	HSD190ME13-A13	BN07-00317A	NTZ		
TORISAN	TM150XG-22L03(A)	BN07-00021A	RA		-
TORISAN	TM150XG-26L06	BN07-00042A	RB		-
TORISAN	TM181SX-76N01	BN07-00048A	RC		-
TORISAN	TM150XG-26L06	BN07-00059A	RD		15" XGA TN MODE(ZPD)
TORISAN	TM290WX-71N31	BN07-00063A	RE		RS24NS (TORISAN 29" NEW PANEL)
TORISAN	TM396WX-71N31	BN07-00064A	RF		RS24NS (TORISAN 40" NEW PANEL)
TORISAN	TM150XG-26L09	BN07-00073A	RG		Panel for 15" TV
TORISAN	TM150XG-26L10	BN07-00089A	RH		L10(change except D/IC) ZPD
TORISAN	TM150XG-26L10	BN07-00090A	RJ		L10 NORMAL
TORISAN	TM190SX-70N01	BN07-00098A	RK		Torisan 19" Panel
TORISAN	TM181SX-76N01	BN07-00106A	RL		ZPD Panel code
TORISAN	TM190SX-70N01	BN07-00107A	RM		ZPD Panel code
TORISAN	TM290WX-71N31	BN07-00115A	RN		Color Coordinates change panel for TORISAN 29" TV
TORISAN	TM396WX-71N31	BN07-00116A	RP,Q		Color Coordinates change panel for TORISAN 40" TV
TORISAN	TM220WX-71N31	BN07-00125A	RR		Development TORISAN 22" TV PANEL (ZPD)
TORISAN	TM220WX-71N31	BN07-00127A	RS		Development TORISAN 22" TV PANEL (HPD)

## 14 Reference Information

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
TORISAN	TM396WX-71N32A	BN07-00150A	RT		120V inverter Exclusive panel
TORISAN	TM190SX-70N02	BN07-00154A	RMH		Torisan 6bit panel code Derivation
TORISAN	TM190SX-70N02	BN07-00154B	RMZ		Torisan 6bit panel code Derivation
TORISAN	TM150XG-A01	BN07-00162A	RTH		Torisan 15" Narrow & Slim panel development
TORISAN	TM150XG-A01	BN07-00162B	RTZ		Torisan 15" N&S panel ZPD code derivation
SHARP	LQ181E1DG11(A)	BN07-10001C	PA		-
SHARP	LQ150X1LW71	BN07-00067A	PB		SHARP 15" PVA PANEL
SHARP	LQ370T3LZ41	BN07-00216A	FAZ		Rome2
HITACHI	TX38D12VC0CAA(A)	BN07-00003A	HA		-
HITACHI	TX43DVCOCAB	BN07-00060A	HB		17" SXGA PVA MODE
HITACHI	TX43D15VC0CAB	BN07-00101A	HC		ZPD Panel
HITACHI	TX51D11VC0CAB	BN07-00122A	HD		20.1" NARROW
HITACHI	TX54D11VC0CAB	BN07-00123A	HE		21.3" NARROW
HITACHI	TX80D12VC0CAB	BN07-00169A	HIZ		Development new panel for Hitachi 32" TV (ZPD)
HITACHI	TX54D11VC0CAB	BN07-00123B	HIZ		Hitachi 21.3"ZPD panel
IBM	ITSX94S	BN07-00017A	IA		-
UNIPAC	UM170E0	BN07-00028A	UA		Loaded by cisdba
HYUNDAI	HT15X13	BN07-00035A	DA		-
HYUNDAI	HT17E11-200	BN07-00049A	DB		TN MODE
HYUNDAI	HT17E11-300	BN07-00093A	DC		HT17E11-300 ZPD panel
HYUNDAI	HT17E11-400	BN07-00094A	DD		HT17E11-400 normal panel
HYUNDAI	HT17E11-400	BN07-00095A	DE		HT17E11-400 ZPD panel code
HYUNDAI	HT17E12	BN07-00096A	DF		HT17E12 ( Narrow & slim Design )
HYUNDAI	HT17E12	BN07-00105A	DG		ZPD Panel code
HYUNDAI	HT15X15-D00	BN07-00146A	DH		Development for Ares 15" Hydys TV
HYUNDAI	HT15X15-D01	BN07-00146B	DJ		Derivation panel HPD for Ares 15" Hydys TV
HYUNDAI	HT17E13-100	BN07-00167A	DTH		PINEHURST-2(IBM) PJT 17" HYDIS PANEL Derivation
HYUNDAI	HT17E13-100	BN07-00167B	DTZ		PINEHURST-2(IBM) Hydys 17" ZPD code Derivation
HYUNDAI	HT170EX1-100	BN07-00240A	DTZ		17" EX compatible Hydys Slim panel development
HYUNDAI	HT201V01-100	BN07-00263A	DTZ		Hydis 20.1" 4:3 VGA Mode TN NEW Panel
HYUNDAI	HT170EX1-101	BN07-00266A	DTZ		17" EX compatible Hydys Slim panel multi channel IC NEW Derivation
ACER	L170E3	BN07-00044A	AA		TN(ADT)
ACER	M170EN05	BN07-00076A	AB		AU 17" Panel ( Narrow & slim design )
ACER	M170EN05	BN07-00102A	AC		ZPD Panel code
ACER	M190EN02	BN07-00170A	AMH		AU Monitor 19" new panel development (P19-1S)
ACER	M190EN02	BN07-00170B	AMZ		AU 19" ZPD code derivation (ZPD)
ACER	M170EN06	BN07-00171A	ATH		AU Monitor 17" New panel development
ACER	T260XW01	BN07-00163A	AMZ		AU 26" new panel development (NF26EO)
ACER	A201SN01	BN07-00177A	ATZ		AU TV panel 20.1" TN SVGA new panel development
ACER	M170EN06	BN07-00171B	ATZ		AU Monitor 17" ZPD code Derivation
ACER	T315XW01	BN07-00194A	AMZ		New AU 32"
ACER	M170EG01	BN07-00192A	ATH		AU TN PSWG type New Panel code
ACER	M170EG01	BN07-00192B	ATZ		AU TN PSWG type New Panel ZPD Derivation code
ACER	M190EN04	BN07-00203A	ATH		AU Monitor 19" ZPD New code Derivation
ACER	T260XW02	BN07-00208A	AMZ		AUO 26"
ACER	M170EG01 V8	BN07-00221A	ATZ		AU TN PSWG type New Panel (8msec) ZPD Derivation code
ACER	T260XW02	BN07-00233A	AMZ		AUO 26" New Panel (Cosmetic spec down grade)
ACER	T315XW01	BN07-00234A	AMZ		AUO 32" New Grade (Cosmetic spec down grade)]
ACER	M190EN03	BN07-00224A	AMZ		AU Monitor 19" MVA New code Derivation
ACER	T315XW01	BN07-00237A	AMZ		New LCD TV VE project : delete DBEF sheet * Panel, model division ve
ACER	T315XW01	BN07-00238A	AMZ		New LCD TV VE project : delete DBEF sheet + &#039;A-&#039; grade * Panel
ACER	M201UN02 V3	BN07-00168A	AMZ		-
ACER	M201UN02 V3	BN07-00168B	AMH		-
ACER	M190EN04 V7	BN07-00248A	ATZ		AU Monitor 19" TN Glare ZPD New code Derivation
ACER	A070VW01	BN07-00235A	ATZ		New Panel code Derivation for Digital Album
ACER	T315XW01	BN07-00253A	AMZ		LCD TV VE item model * Panel, Model division add version: T315XW01
ACER	T260XW02	BN07-00254A	AMZ		AUO 26" VE item apply model
ACER	M170EU01	BN07-00260A	ATZ		AUO 17" Slim TN ZPD Type New code Derivation
ACER	T370XW01	BN07-00255A	AMZ		for ROME 37" model development

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
ACER	T315XW02(V3),	BN07-00324A	AMZ		-
ACER	A201SN02 V5	BN07-00314A	ATZ		
CHIMEI	M170E3-L01	BN07-00050A	CA		TN PANEL
CHIMEI	M150X3-L01	BN07-00051A	CB		COMPATIBLE
CHIMEI	M170E4-L01	BN07-00052A	CC		MVA PANEL
CHIMEI	M150X2-L01	BN07-00066A	CD		CHIMEI 15" PVA PANEL
CHIMEI	M150X3-L01	BN07-00079A	CE		Chimei ZPD panel
CHIMEI	M170E3-L01	BN07-00103A	CF		ZPD Panel code
CHIMEI	M170E4-L01	BN07-00104A	CG		ZPD Panel code
CHIMEI	V296W1-L01	BN07-00120A	CH		MVA
CHIMEI	M170E6-L02	BN07-00126A	CJ		HIGHLAND 17" LOW PANEL
CHIMEI	M190E2-L01	BN07-00131A	CK		GH19AS,BS CHIMEI PANEL
CHIMEI	M150X4-L06	BN07-00137A	CL		15" Narrow & Slim panel
CHIMEI	M170E6-L01	BN07-00133A	CM		2003-03-11 vendor change
CHIMEI	M170E6-L01	BN07-00133B	CN		ZPD derivation panel
CHIMEI	V201V1-T01	BN07-00135A	CP		CHIMEI 20.1" panel development
CHIMEI	M170E6-L02	BN07-00126B	CQ		HIGHLAND 17" LOW PANEL ZPD derivation panel
CHIMEI	M170E6-L05	BN07-00152A	CR		CMO 17" new panel development code
CHIMEI	M170E6-L05	BN07-00152B	CS		CMO 17" ZPD panel code derivation
CHIMEI	M150X4-L06	BN07-00137B	CT		Chimei 15" Narrow & Slim panel ZPD derivation
CHIMEI	M170E5-L05	BN07-00165A	CTH		CMO 17" new panel development code (GOYA2-PJT)
CHIMEI	M170E5-L05	BN07-00165B	CTZ		CMO 17" ZPD panel(GOYA2-PJT)
CHIMEI	V230W1-L02	BN07-00209A	CMZ		CMO 23" new development
CHIMEI	V320B1-L01	BN07-00207A	CMZ		CMO 32" new development
CHIMEI	V270W1-L01	BN07-00136A	CMZ		CHI MEI 27" panel development
CHIMEI	M190E5-L0A	BN07-00213A	CTZ		-
CHIMEI	M190E3-L0A	BN07-00212A	CMZ		CMO M190E3-L0A MVA Type New code derivation
CHIMEI	M170E7-L01	BN07-00232A	CTZ		CMO 17" Slim TN ZPD Type New code derivation
CHIMEI	M190A1-L01	BN07-00228A	CTZ		CMO 19" Wide TN ZPD Type New code derivation
CHIMEI	V201V1-T03	BN07-00275A	CTZ		CMO 20.1" (V201V1-T01) VE model
CHIMEI	M201P1-L01	BN07-00268A	CTZ		CMO 20.1" TN ZPD derivation
CHIMEI	M220Z1-L01	BN07-00321A	CTZ		
CHIMEI	M190E5-L0G	BN07-00337A	CTZ		
NEC	SVA150XG04TB	BN07-00225A	BTZ		SVA NEC 15" panel ZPD code
NEC	SVA170SX01TB	BN07-00272A	BTZ		SVA NEC 17" panel ZPD code Brown

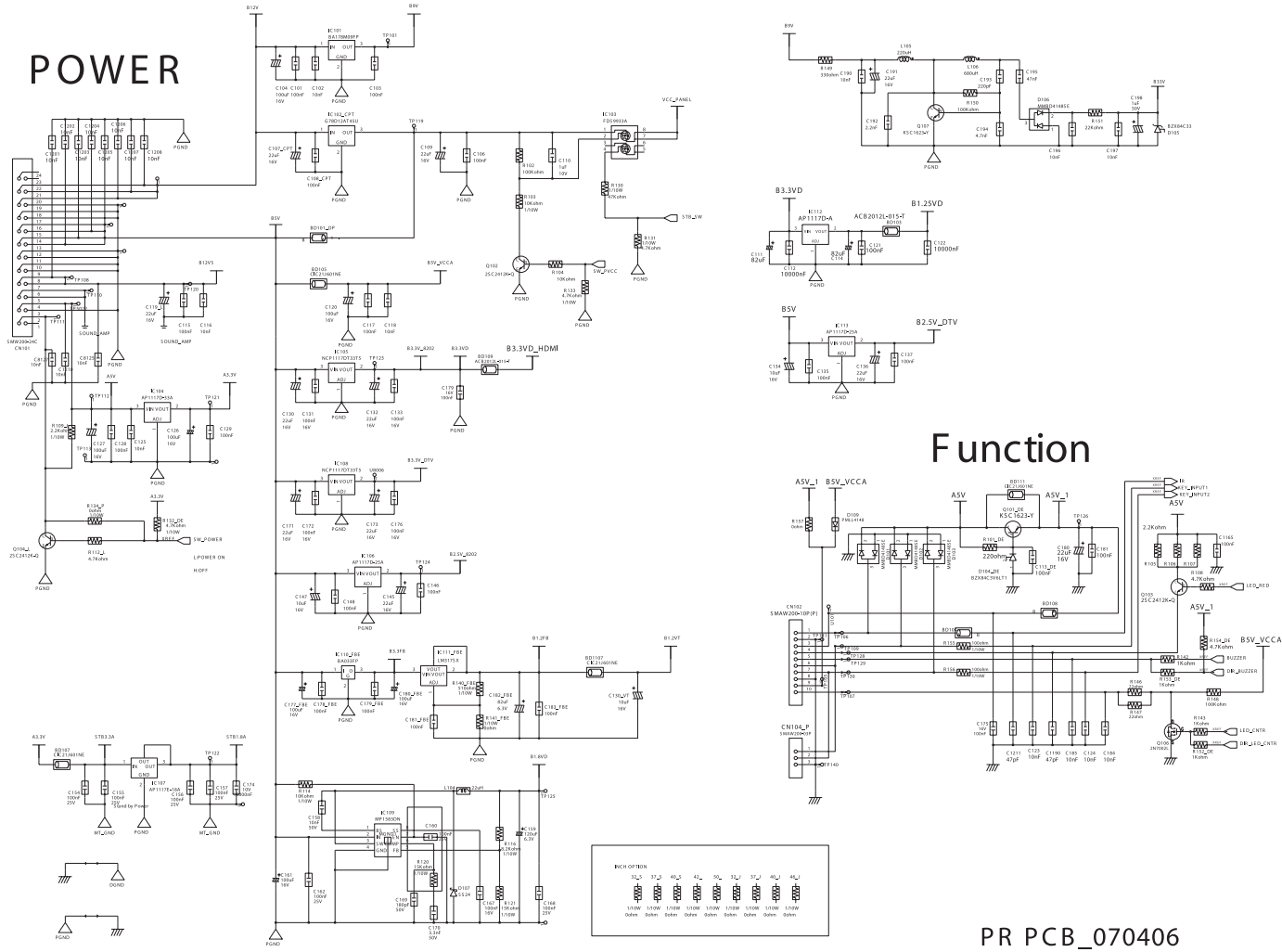


## Memo

# 9 Schematic Diagrams

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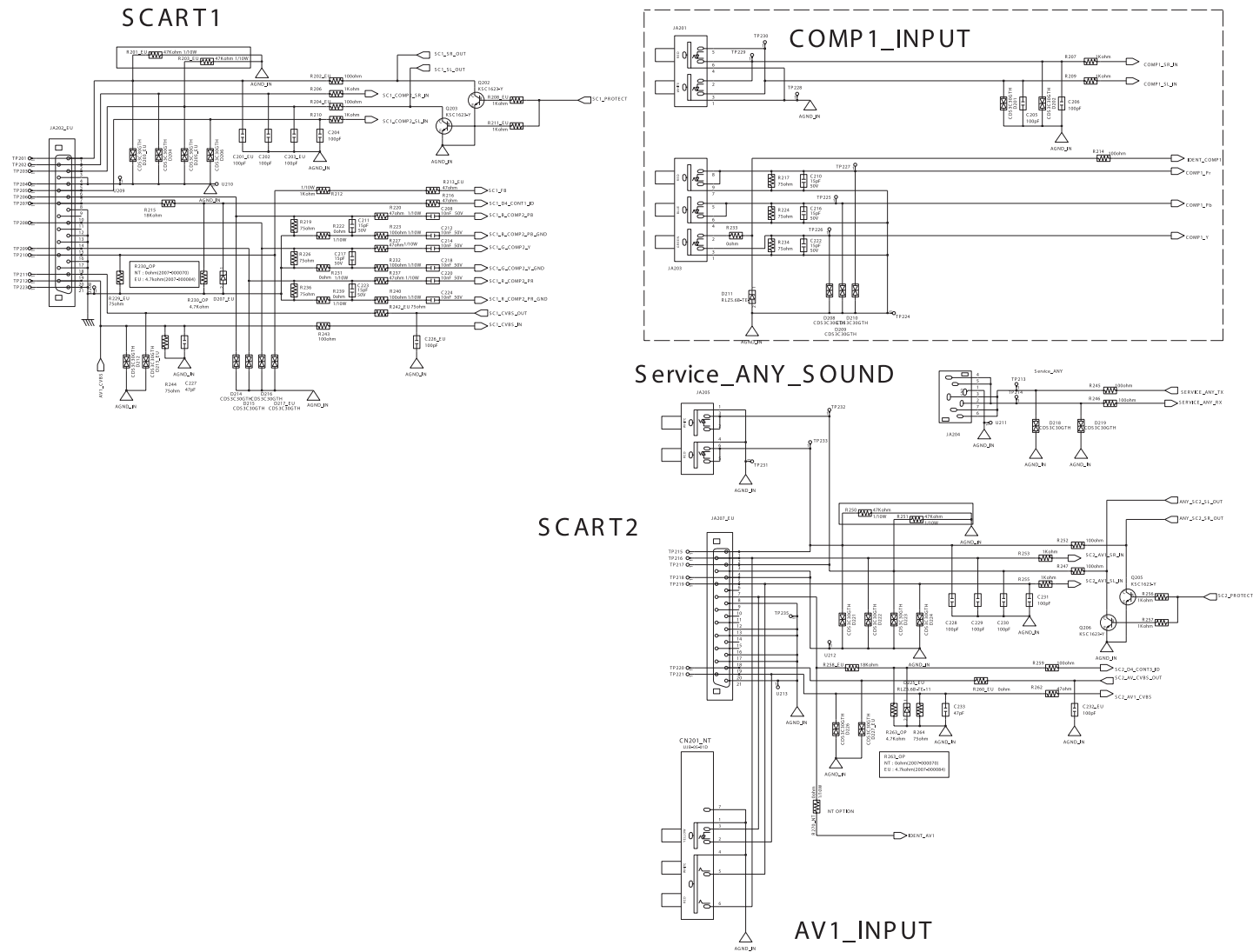
## 9-1 Power Schematic Diagram



## 9 Schematic Diagrams

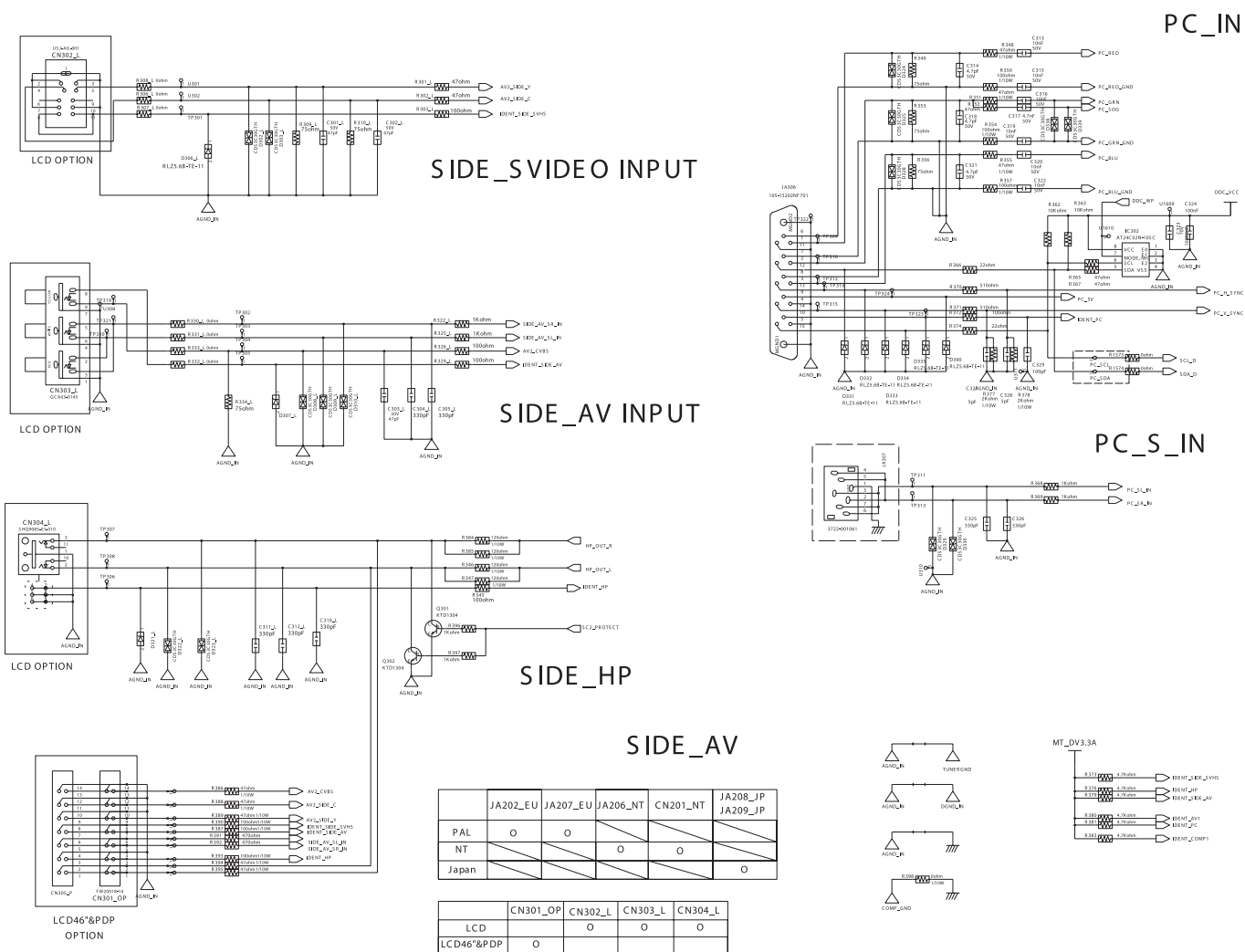
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### 9-2 Schematic Diagram



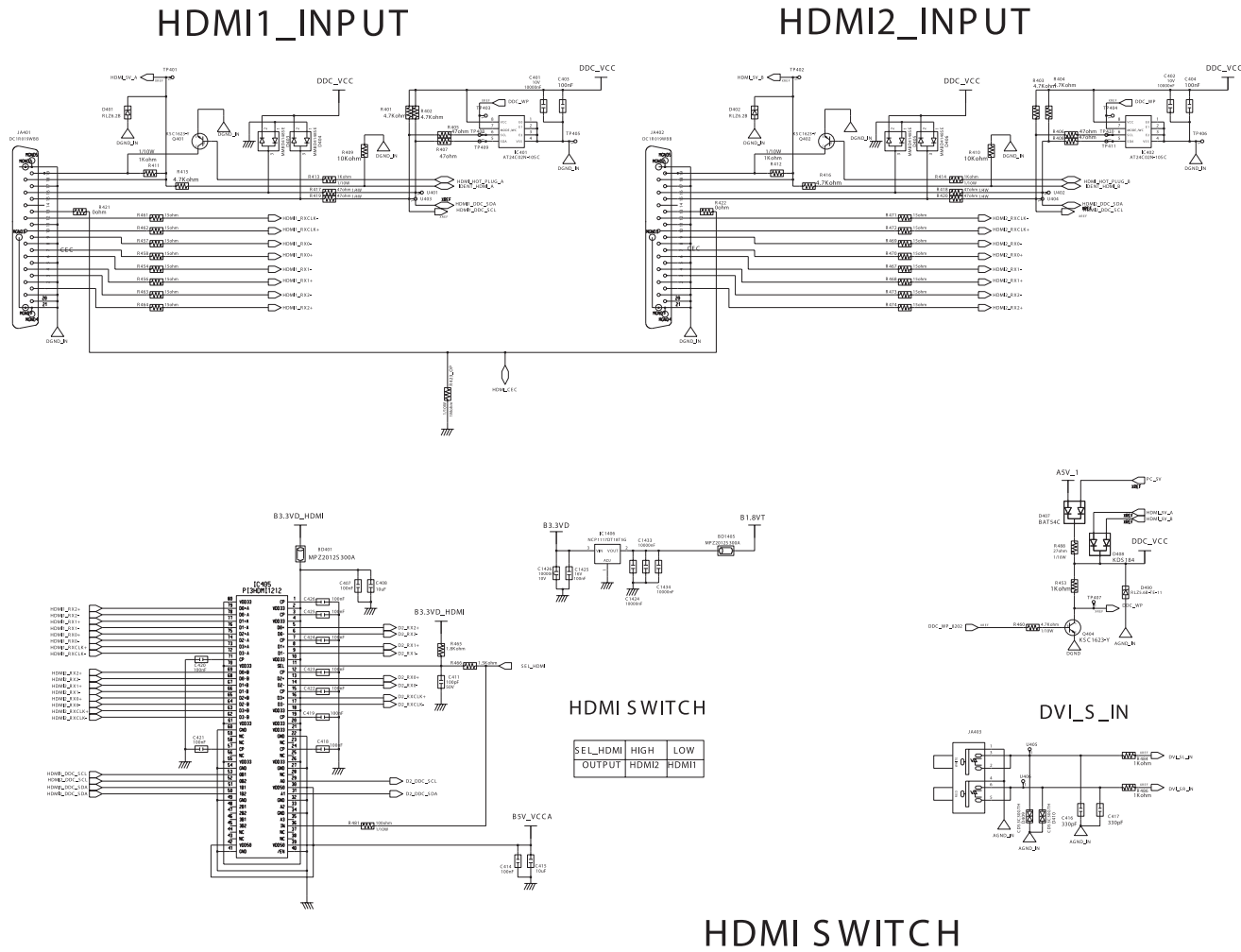
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### 9-3 SIDE\_AV Schematic Diagram



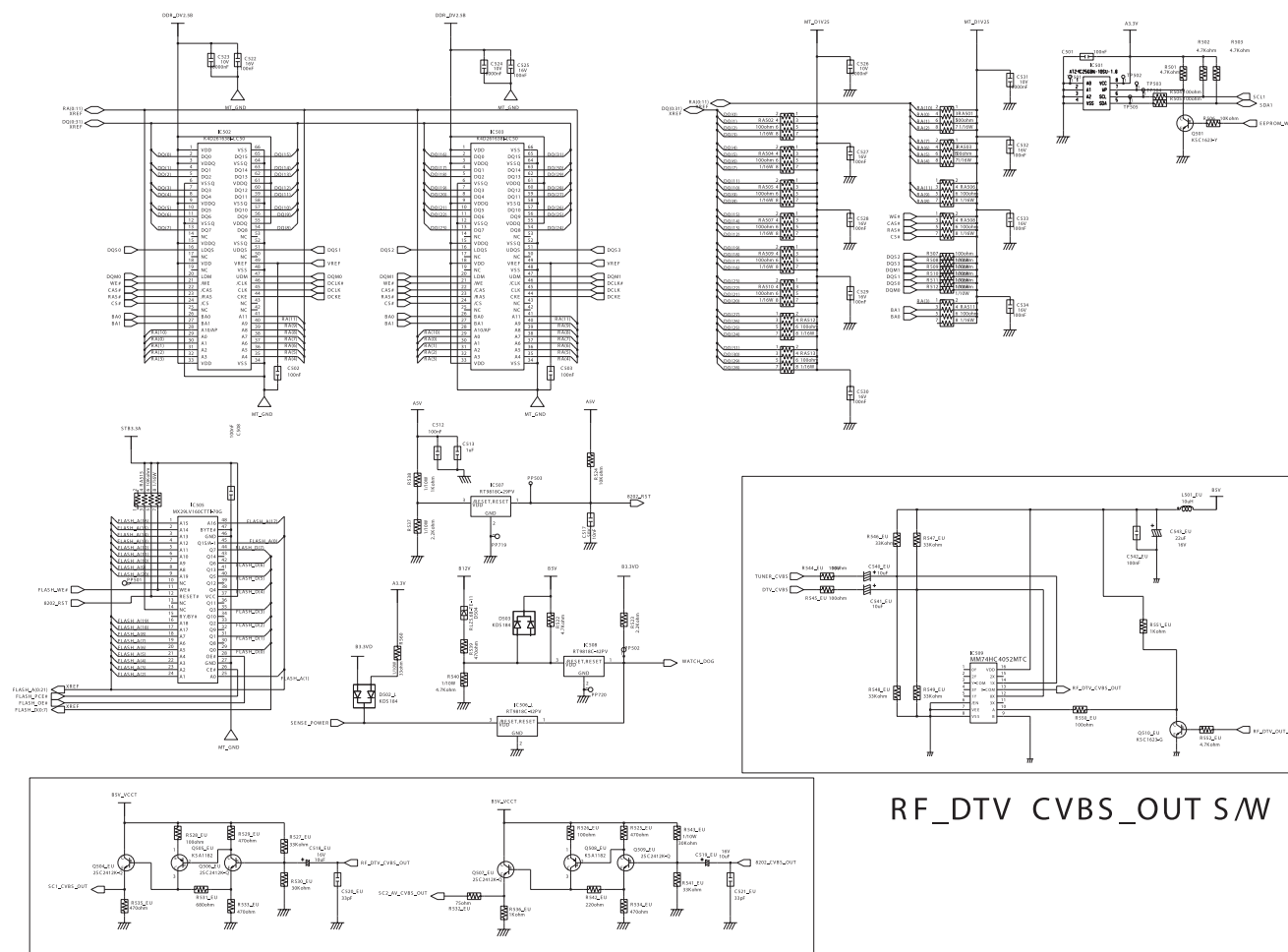
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#### 9-4 HDMI\_INPUT Schematic Diagram



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### 9-5 Scart Option Schematic Diagram

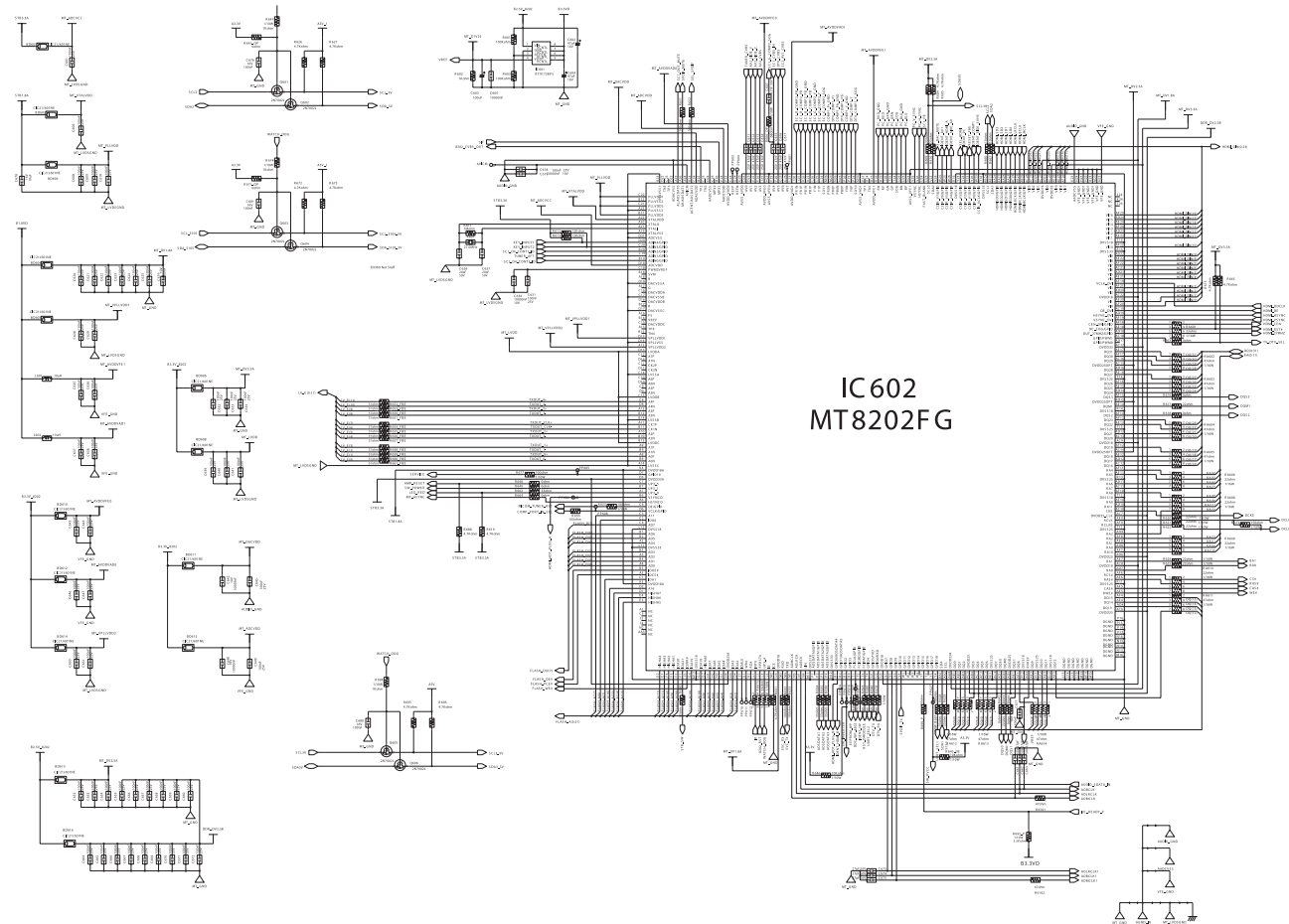


### Scart Option

## 9 Schematic Diagrams

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

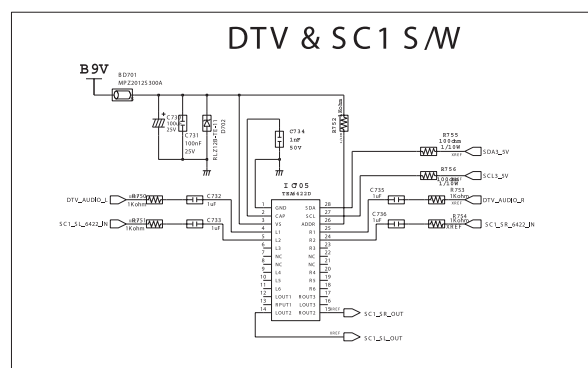
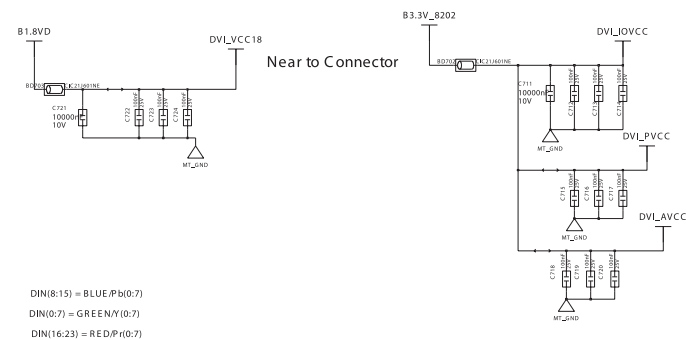
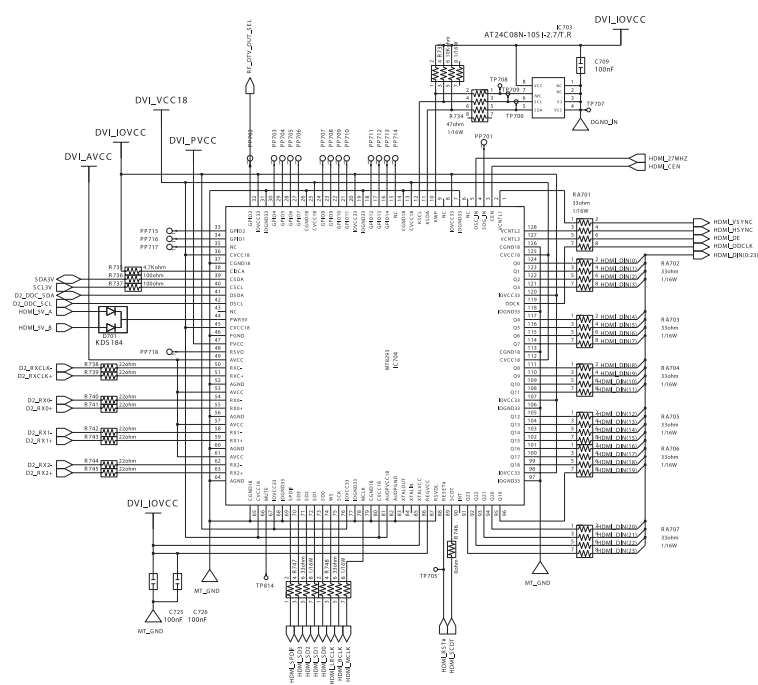
## 9-6 Application Schematic Diagram





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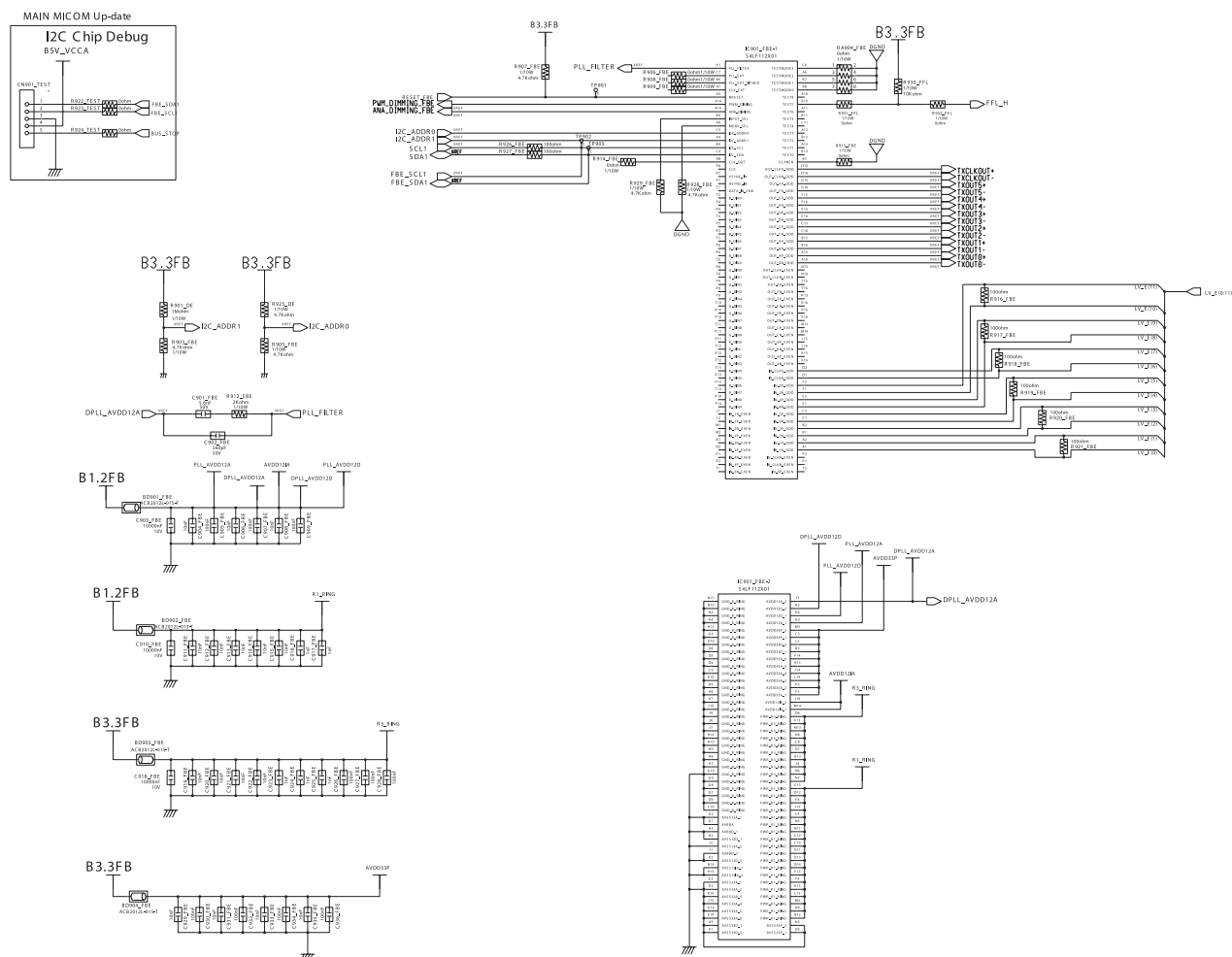
### 9-7 DTV & SC15/W Schematic Diagram





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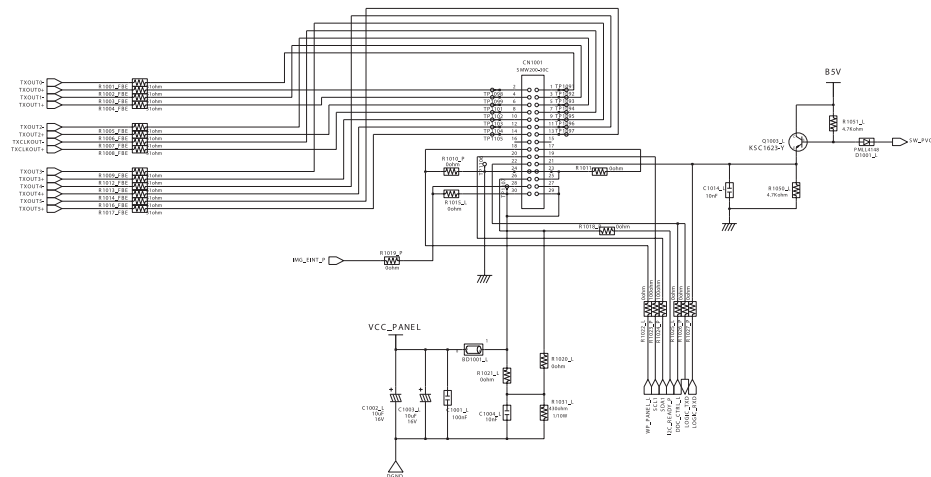
### 9-9 FBE2 Schematic Diagram



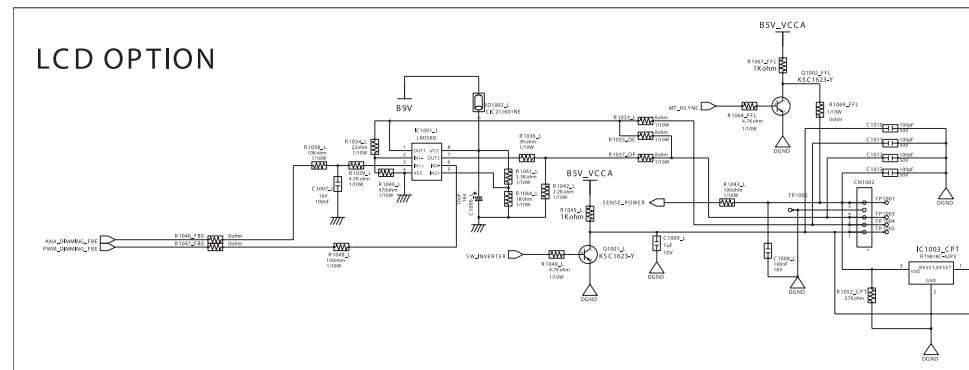
-This Document can not be used without Samsung ' s authorization.

## 9-10 LVDS & Dimming Schematic Diagram

## LVDS & Dimming

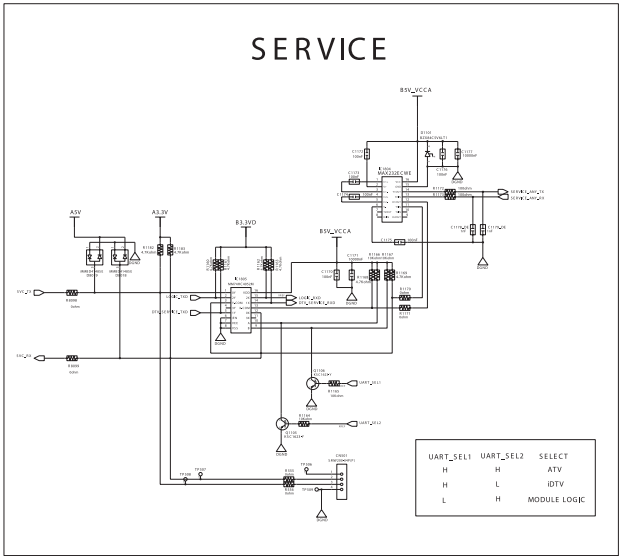
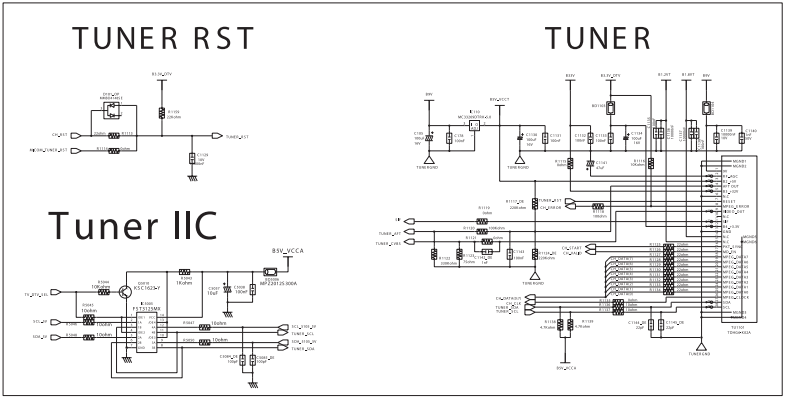
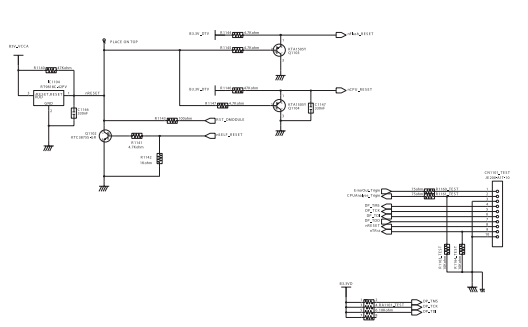
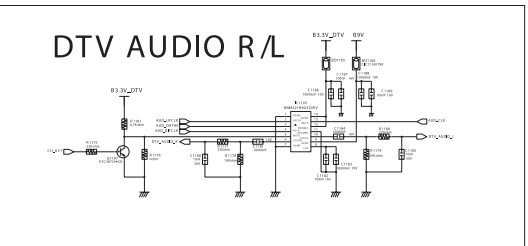
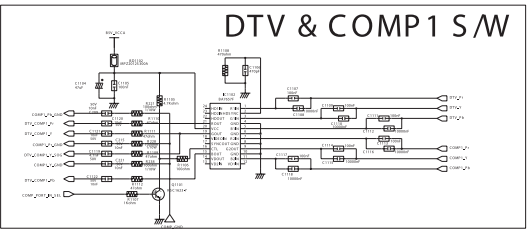
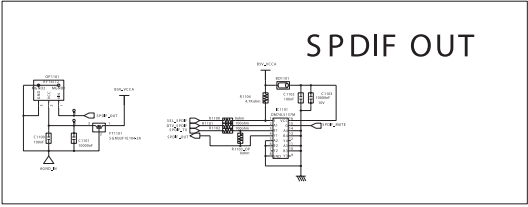


## LCD OPTION



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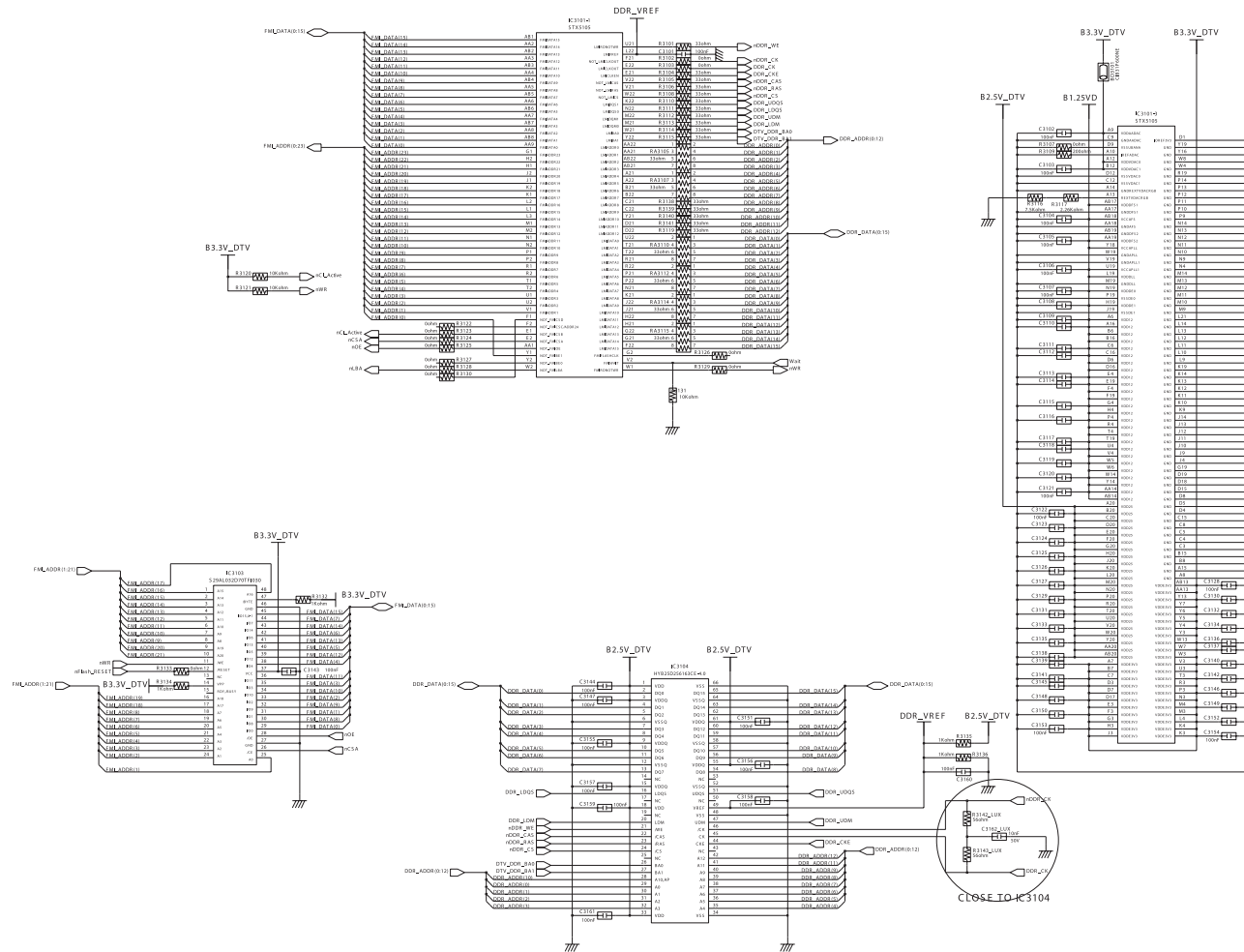
# 9-11 SERVICE Schematic Diagram



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## 9-12 MEMORY & STi5105 Schematic Diagram

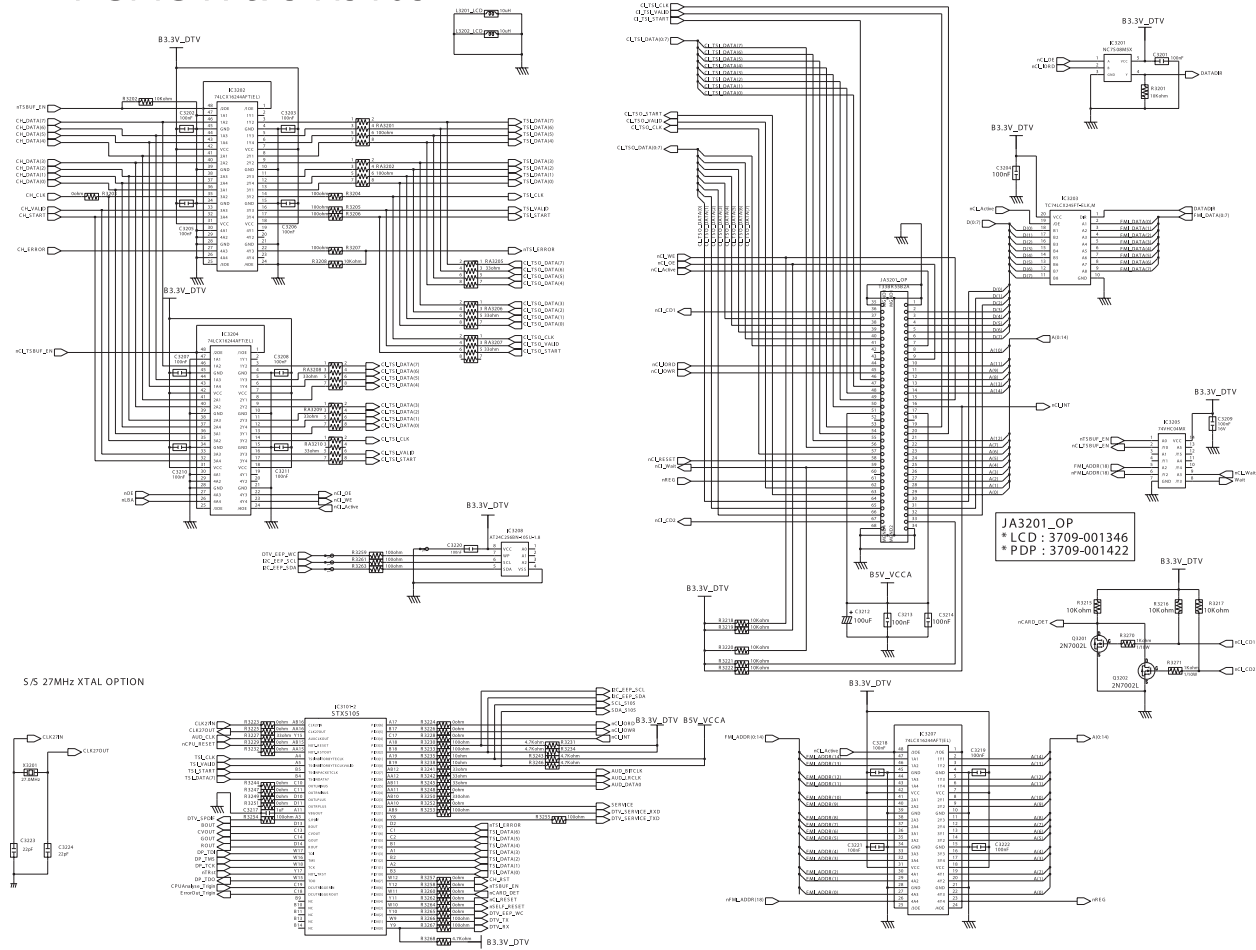
# MEMORY & STi5105



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## 9-13 PCMCIA & STi5105 Schematic Diagram

### PCMCIA & STi5105



Memo



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## 4 Troubleshooting

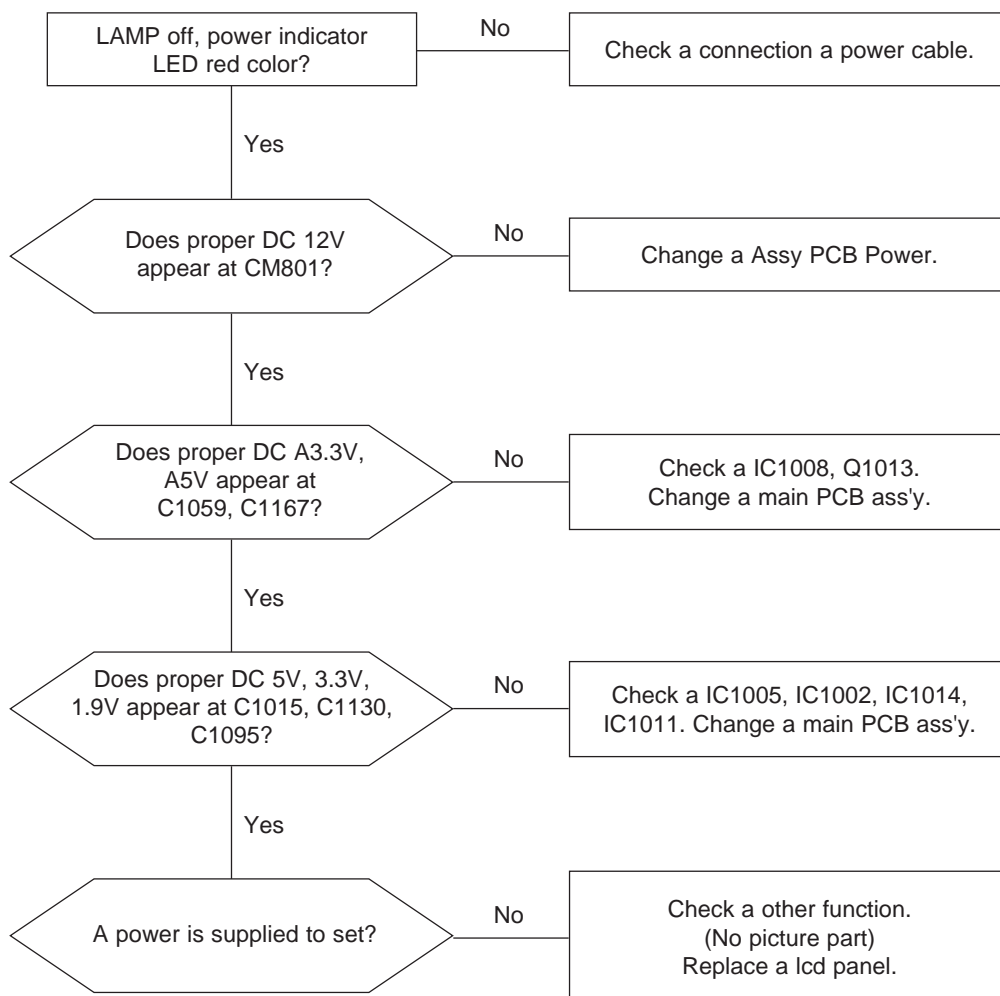
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### 4-1 First Checklist for Troubleshooting

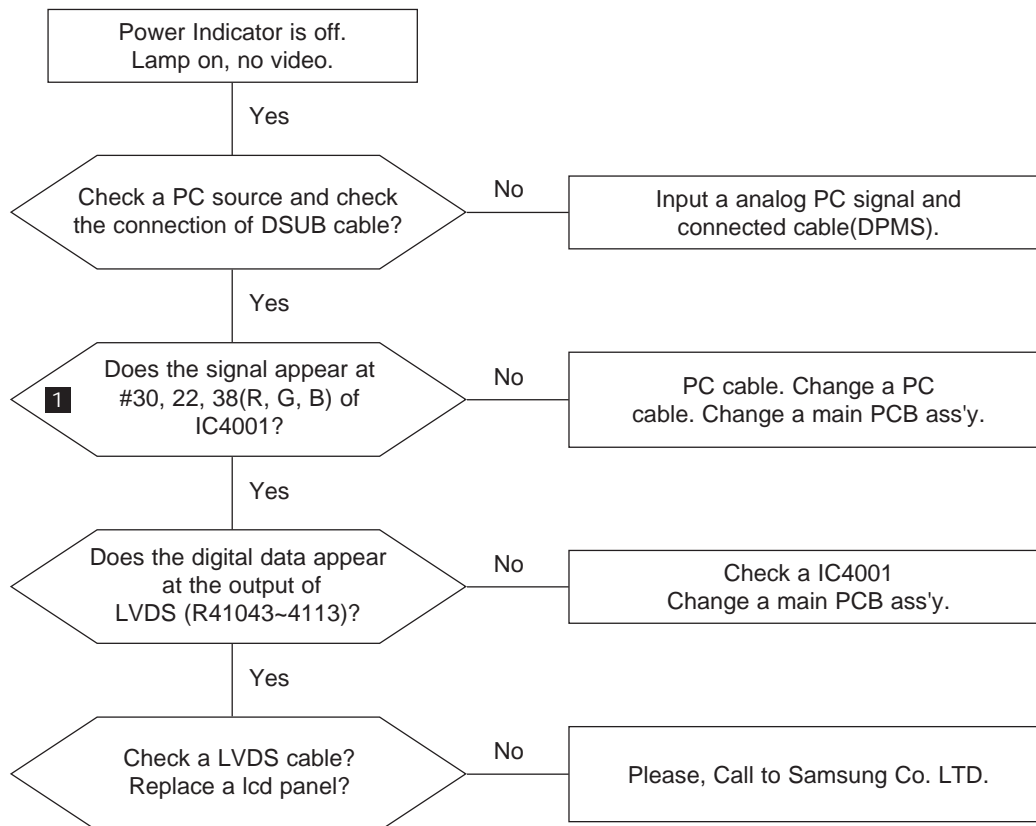
1. Check the various cable connections first.
  - Check to see if there is a burnt or damaged cable.
  - Check to see if there is a disconnected cable connection or a connection is too loose.
  - Check to see if the cables are connected according to the connection diagram.
2. Check the power input to the Main Board.
3. Check the voltage in and out between the SMPS ↔ Main Board, between the SMPS ↔ INVERTER Board, and between the Main LVDS Boards.

## 4-2 Checkpoints by Error Mode

### 4-2-1 No Power

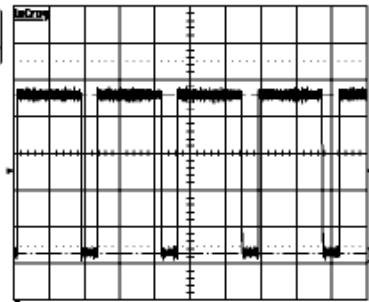


## 4-2-2 No Video (Analog PC)



## WAVEFORMS

## 1 R,G,B Output Signal of IC500

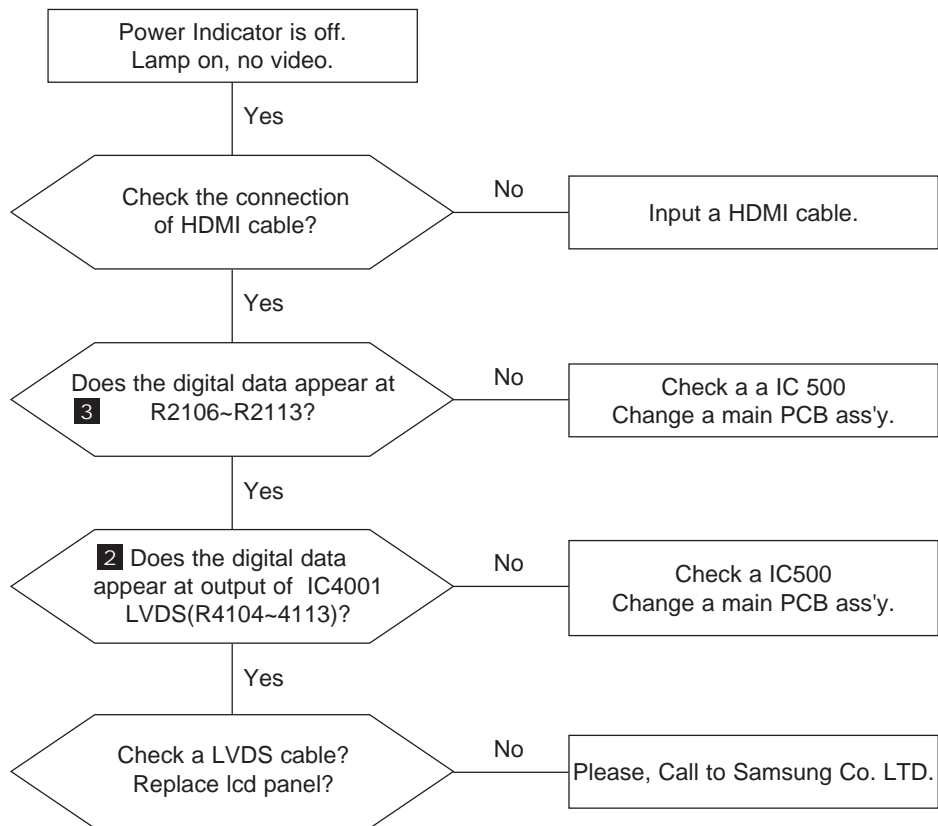
27-Sep-02  
1:42:1918  $\mu$ s  
288mV  
652mV18  $\mu$ s1 28 mV DC  $\frac{1}{2}$   
2 1 V DC  $\frac{1}{2}$   
3 1 V DC  $\frac{1}{2}$   
4 5 V DC  $\frac{1}{2}$ 

1 DC 0.492 V

1 65/s

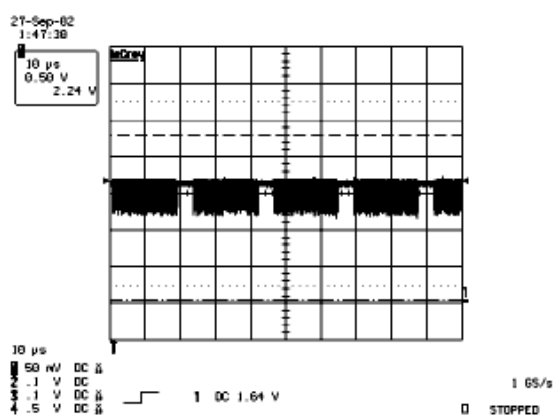
STOPPED

## 4-2-3 No Video (Digital-HDMI)

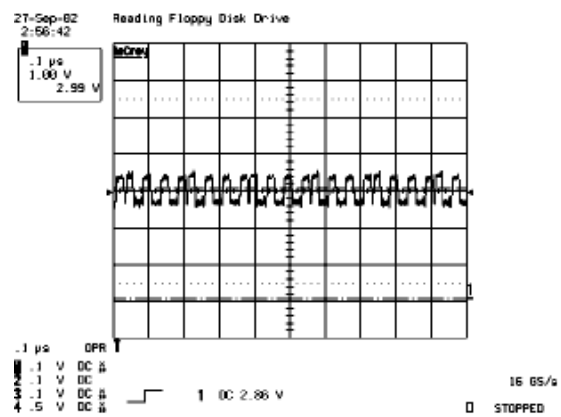


## 4 Troubleshooting

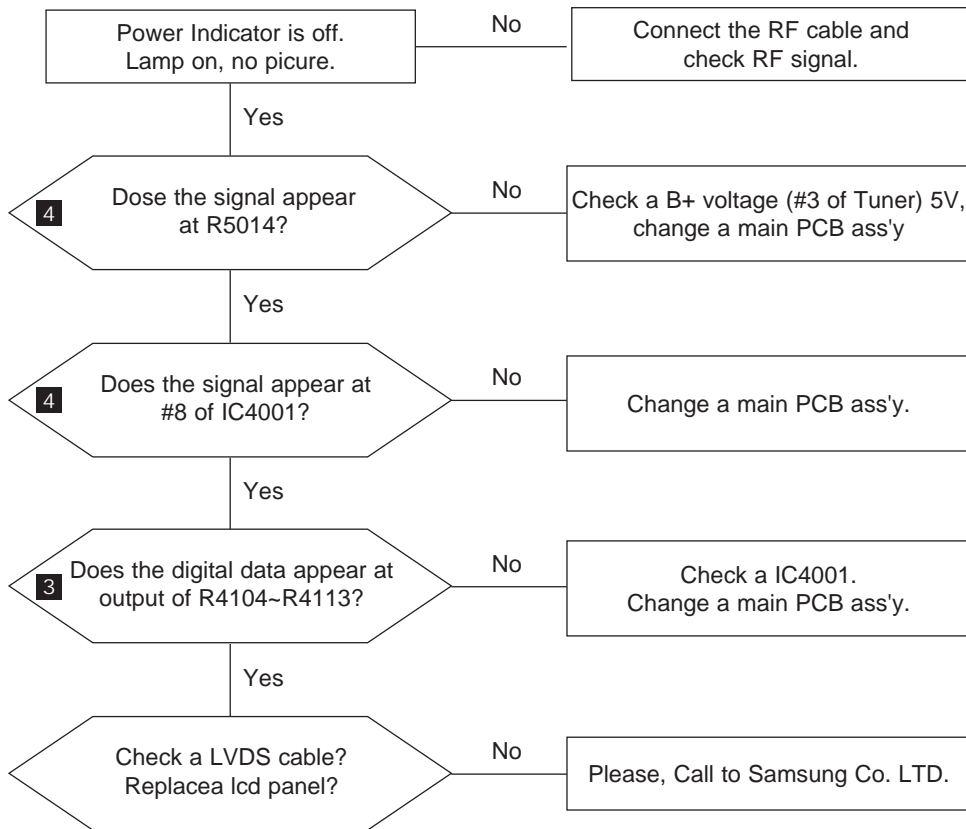
### 2 Digital Output Data of IC500



### 3 Signal of HDMI(Data)

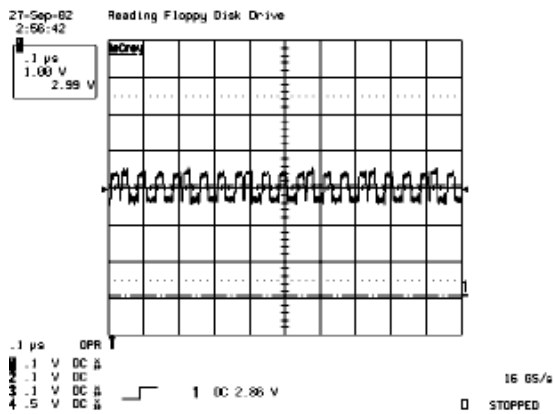


## 4-2-4 No Picture (Tuner\_CVBS)

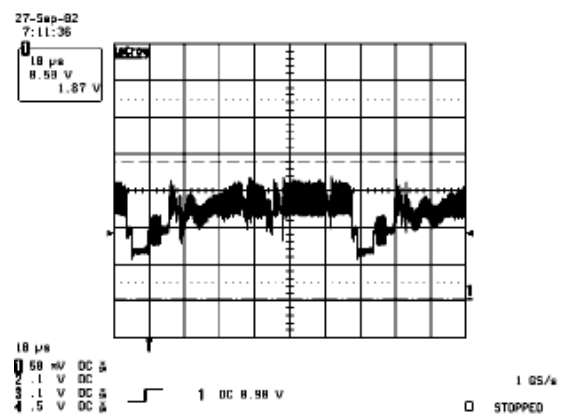


## WAVEFORMS

## 3 CVBS Output Signal

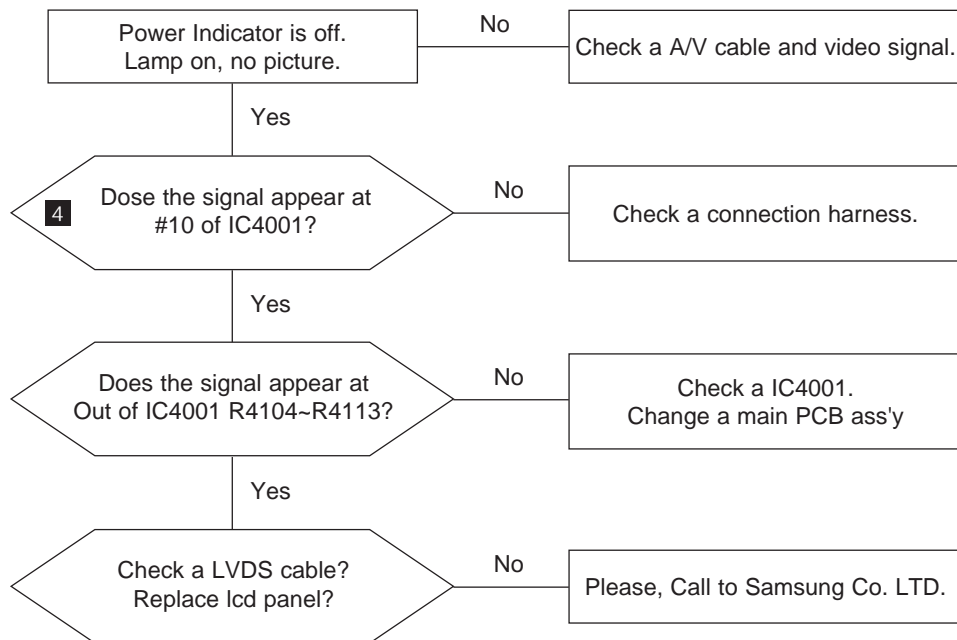


## 4 Tuner\_CVBS Output Signal

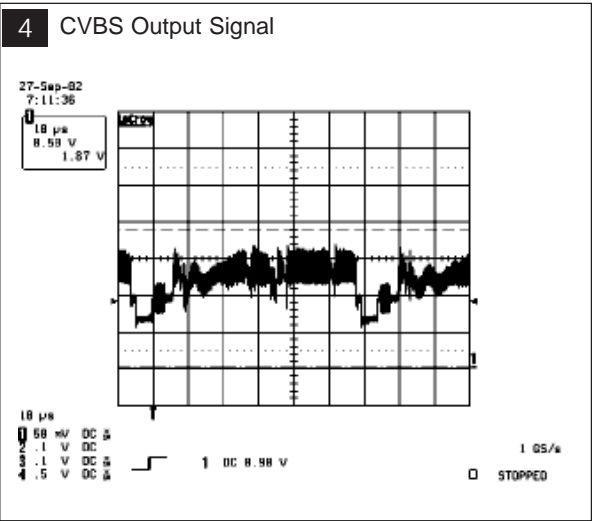




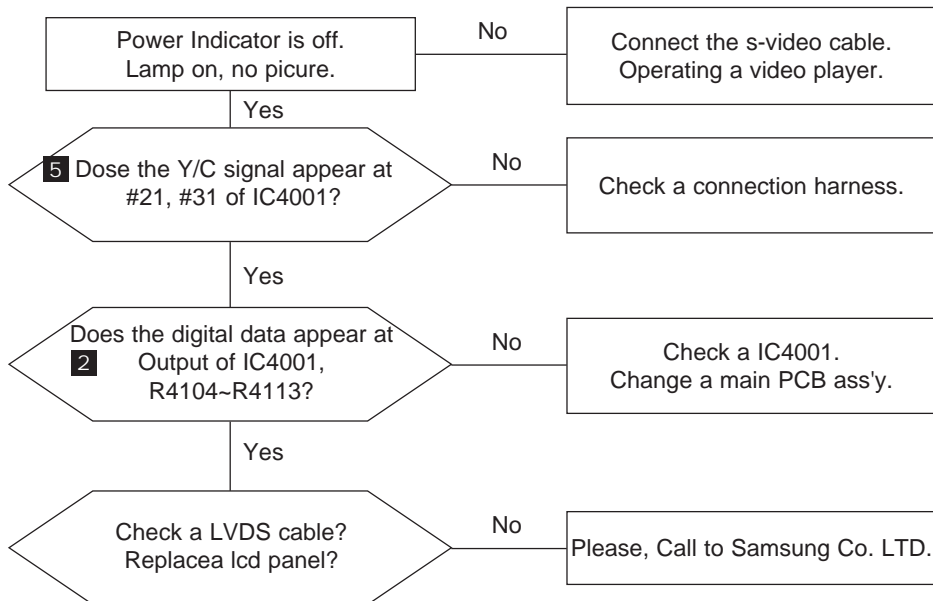
## 4-2-5 No Picture (Video\_CVBS)



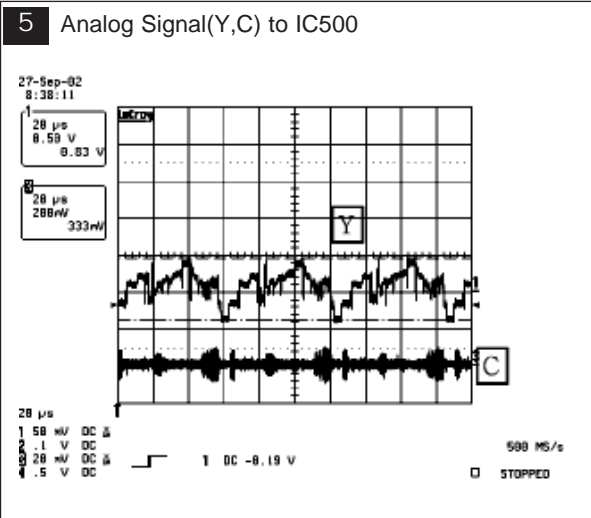
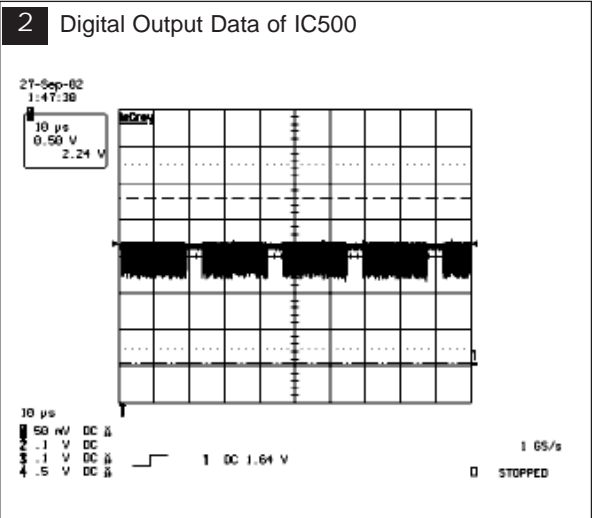
WAVEFORMS



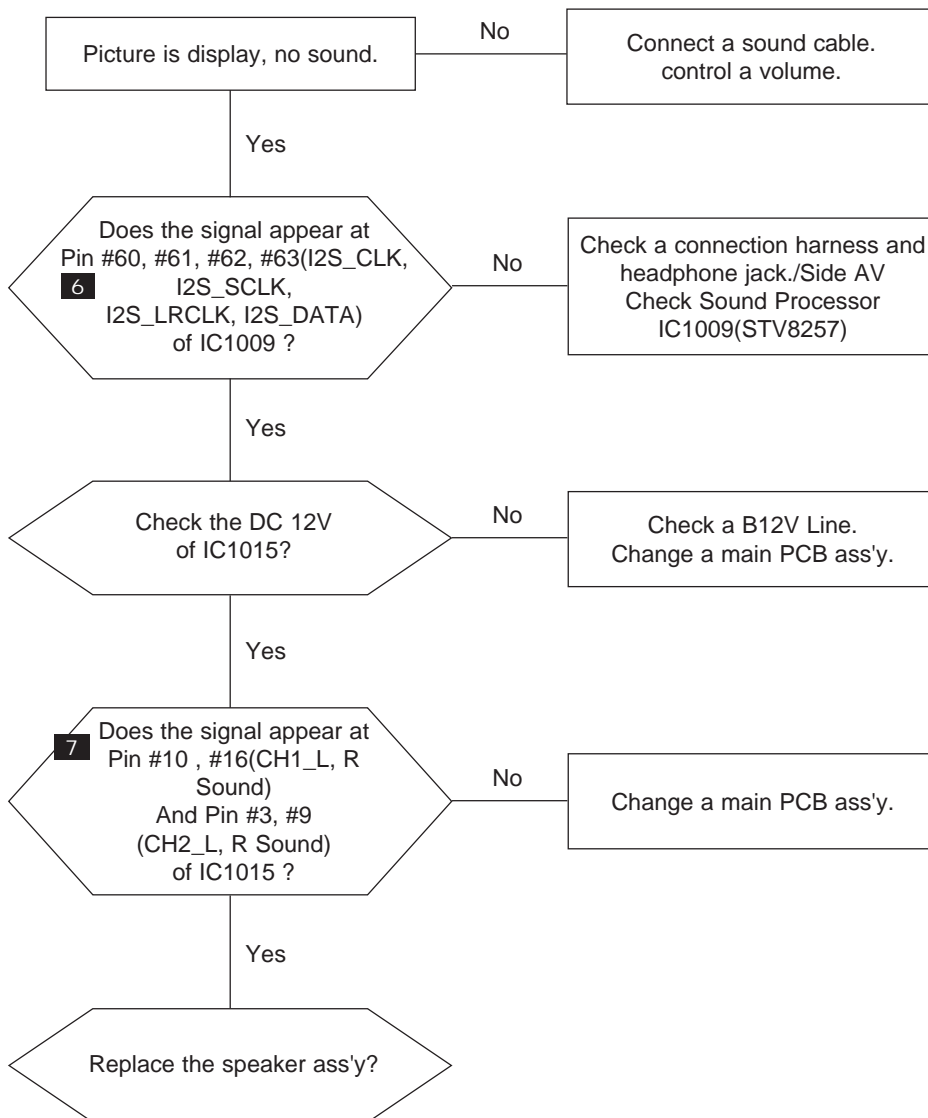
## 4-2-6 No Picture (S-VIDEO\_Y,C)



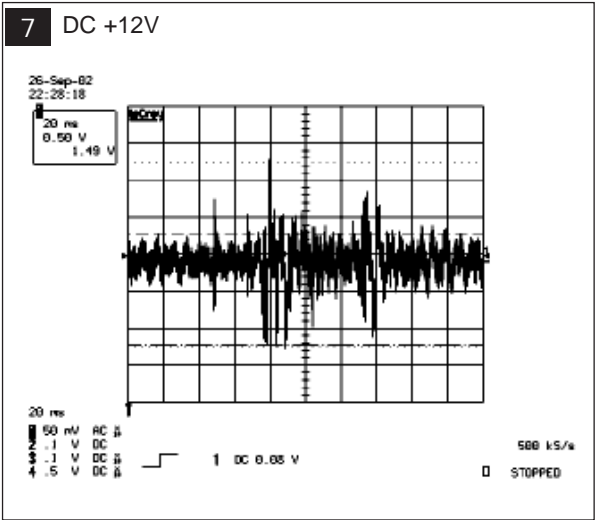
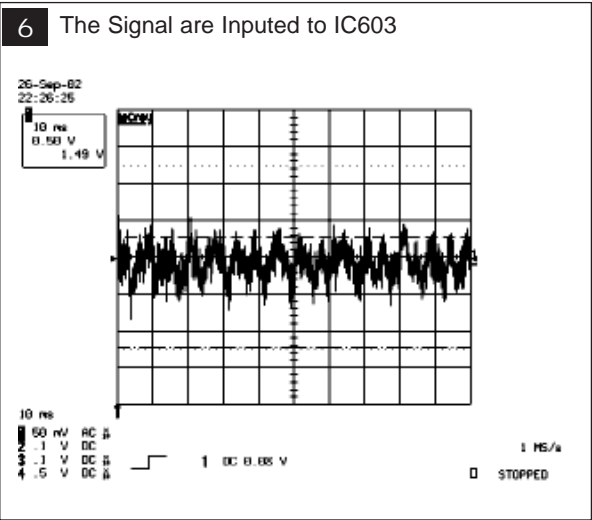
WAVEFORMS



## 4-2-7 No Sound



WAVEFORMS



## 8 Wiring Diagram

### 8-1 Wiring Diagram

CN1001

1	TXOUT0-
2	TXOUT0+
3	TXOUT1-
4	TXOUT1+
5	TXOUT2-
6	TXOUT2+
7	TXCLKOUT-
8	TXCLKOUT+
9	TXOUT3-
10	TXOUT3+
11	TXOUT4-
12	TXOUT4+
13	TXOUT5-
14	TXOUT5+
15	NC
16	NC
17	GND
18	WP_PANEL
19	NC
20	NC
21	LVDS_FORMAL
22	DDC_CTRL
23	GND
24	GND
25	GND
26	NC
27	VCC_PANEL
28	NC
29	VCC_PANEL
30	VCC_PANEL

CN101

1	NC
2	SIGNAL
3	GND
4	A5V
5	GND
6	GND
7	B12V
8	B12V
9	GND
10	GND
11	GND
12	GND
13	B5V
14	B5V
15	B5V
16	B5V
17	GND
18	GND
19	GND
20	B12V
21	B12V
22	B12V
23	NC
24	NC

CN1002

1	SW_INERTER
2	ANA_DIM
3	PWM_DIM
4	GND
5	GND

JA205

1	GND
2	ANY_SL_OUT
3	ANY_SL_OUT
4	GND
5	ANY_SR_OUT
6	ANY_SR_OUT

JA403

1	GND
2	DVI_SL_OUT
3	DVI_SL_OUT
4	GND
5	DVI_SR_OUT
6	DVI_SR_OUT

JA202\_EU

1	AUDIOOUTR
2	AUDIOINR
3	AUDIOOUTL
4	AUDIOGND
5	VIDEO GND
6	AUDIOINPUTL
7	RGB BLUE INPUT
8	SWITCHING VOL
9	VIDEO GND
10	NC
11	RGB GREEN INPUT
12	NC
13	VIDEO GND
14	GND
15	RGB RED INPUT
16	NC
17	VIDEO OUTGND
18	VIDEO IN GND
19	CVBS OUT
20	CVBS IN
21	GND

JA207\_EU

1	AUDIOOUTR
2	AUDIOINR
3	AUDIOOUTL
4	AUDIOGND
5	VIDEO GND
6	AUDIOINPUTL
7	RGB BLUE INPUT
8	SWITCHING VOL
9	VIDEO GND
10	NC
11	RGB GREEN INPUT
12	NC
13	VIDEO GND
14	GND
15	RGB RED INPUT
16	NC
17	VIDEO OUTGND
18	VIDEO IN GND
19	CVBS OUT
20	CVBS IN
21	GND

JA201

1	GND
2	COMP_SR_IN
3	COMP_SL_IN
4	GND
5	COMP_SL_IN
6	COMP_SR_IN

JA203

1	GND
2	IDENT_COMP
3	COMP_Y
4	GND
5	COMP_Pb
6	COMP_Pb
7	GND
8	NC
9	COMP_Pr

# MAIN BOARD

CN1001

1	TXOUT0-
2	TXOUT0+
3	TXOUT1-
4	TXOUT1+
5	TXOUT2-
6	TXOUT2+
7	TXCLKOUT-
8	TXCLKOUT+
9	TXOUT3-
10	TXOUT3+
11	TXOUT4-
12	TXOUT4+
13	TXOUT5-
14	TXOUT5+
15	NC
16	NC
17	GND
18	WP_PANEL
19	NC
20	NC
21	LVDS_FOR
22	DDC_CTRL
23	GND
24	GND
25	GND
26	NC
27	VCC_PANEL
28	NC
29	VCC_PANEL
30	VCC_PANEL

CN302\_L

GND	1
GND	2
GND	3
SVIDEO_C	4
SVIDEO_Y	5
NC	6
GND	7
IDENT_SIDE_SVHS	8
NC	9
GND	10
IDENT_SIDE_SVHS	11

CN303\_L

GND	1
SIDE_AV_SL_IN	2
SIDE_AV_SR_IN	3
GND	4
SIDE_AV_SR_IN	5
SIDE_AV_SL_IN	6
GND	7
IDENT_SIDE_AV	8
AV_CVBS	9

CN304\_L

GND	1
HP_OUT_L	2
HP_OUT_R	3

JA402

1	RX2-
2	RX2+
3	GND
4	NC
5	NC
6	DDC_SCL
7	DDC_SDA
8	NC
9	RX1-
10	RX1+
11	GND
12	NC
13	NC
14	5V
15	IDENT DVI
16	HDCP_CTRL
17	RX0-
18	RX0+
19	GND
20	NC
21	NC
22	GND
23	RXC+
24	RXC-

JA401

1	RX2-
2	RX2+
3	GND
4	NC
5	NC
6	DDC_SCL
7	DDC_SDA
8	NC
9	RX1-
10	RX1+
11	GND
12	NC
13	NC
14	5V
15	IDENT_DVI
16	HDCP_CTRL
17	RX0-
18	RX0+
19	GND
20	NC
21	NC
22	GND
23	RXC+
24	RXC-

JA204

1	GND
2	SERVICE_ANY_TX
3	SERVICE_ANY_RX
4	SERVICE_ANY_TX
5	SERVICE_ANY_TX
6	SERVICE_ANY_RX
7	SERVICE_ANY_RX

JA307

1	GND
2	PC_SR_IN
3	PC_SL_IN
4	PC_SR_IN
5	PC_SR_IN
6	PC_SL_IN
7	PC_SL_IN

JA306

1	PC_RED
2	PC_GREEN
3	PC_BLUE
4	GND
5	GND
6	GND
7	GND
8	GND
9	PC_5V
10	IDENT_PC
11	GND
12	PC_SDA
13	PC_H_SYNC
14	PC_Y_SYNC
15	PC_SCL

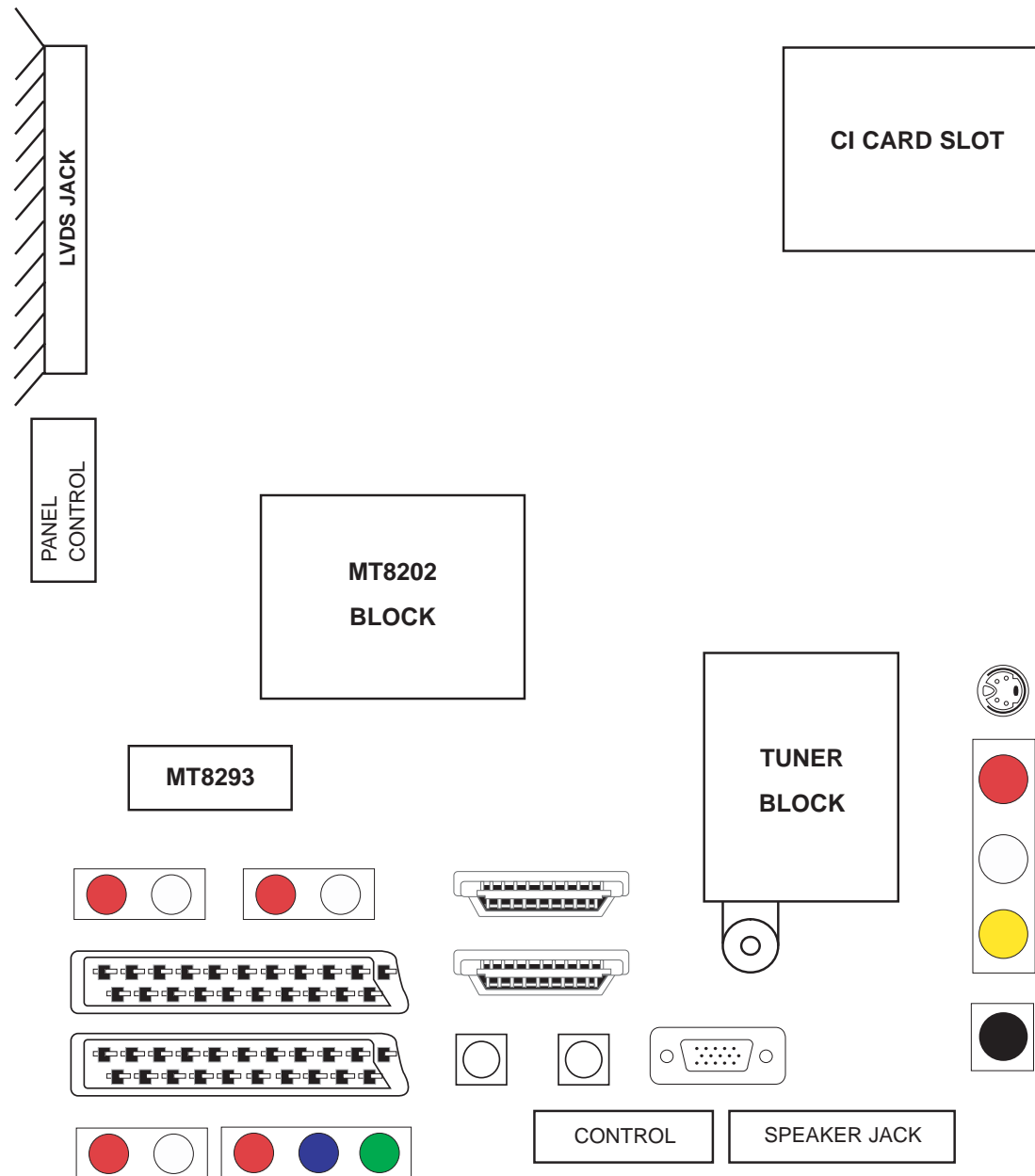
CN102

1	IR
2	GND
3	A5V
4	LED_RED
5	Buzzer
6	KEY_INPUT1
7	KEY_INPUT2
8	GND
9	A5V
10	B5V

CN8001

1	SOUND_L_OUT
2	SOUND_L+_OUT
3	SOUND_R_OUT
4	SOUND_R+_OUT

# 8-2 Main Board Layout





8-3 PIN characteristic

**CN101- Main Board power supply**

PIN	1	2	3	4	5	6	7	8	9	10	11	12
NAME	NC	SIGNAL	GND	A5V	GND	GND	B12V	B12V	GND	GND	GND	GND
PIN	13	14	15	16	17	18	19	20	21	22	23	24
NAME	B5V	B5V	B5V	B5V	GND	GND	GND	B12V	B12V	B12V	NC	NC

**CN8001-SPEAKER CONNECTOR**

PIN	1	2	3	4
NAME	SOUND_L-_OUT	SOUND_L+_OUT	SOUND_R-_OUT	SOUND_R+_OUT

**CN102-Front control**

PIN	1	2	3	4	5
NAME	IR	GND	A5V	LED_RED	BUZZER
PIN	6	7	8	9	10
NAME	KEY_INPUT1	KEY_INPUT2	GND	A5V	B5V

## Function Define

- A5V      Front control board power supply
- KEY INPUT1,2    Key control, from the menu, change up/down Etc.
- IR          Remote control signal
- LED\_RED    Control the timing and standby LED color

**CN501-panel control**

PIN	1	2	3	4	5
NAME	SW_inverter	Ana_dimming	PWM_dimming	GND	GND

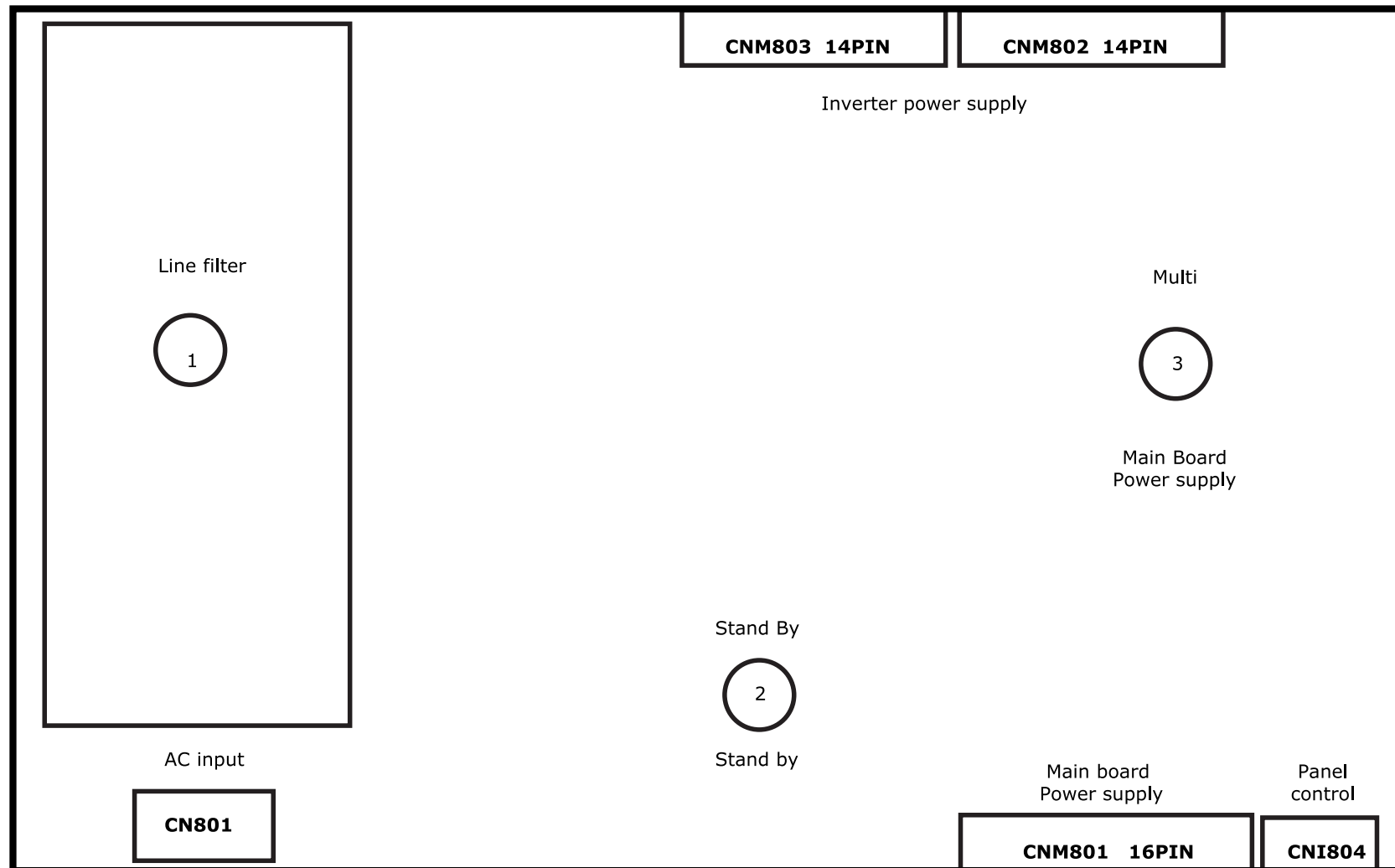
## Function Define

- SW\_inverter      panel inverter control, about 5V
- Ana\_dimming     panel dimming control
- PWM\_dimming    panel PWM control, duty 40% ~ 90%

**CN1001-LVDS Signal**

PIN	1	2	3	4	5	6
NAME	TXOUT0-	TXOUT0+	TXOUT1-	TXOUT1+	TXOUT2-	TXOUT2+
PIN	7	8	9	10	11	12
NAME	TXCLKOUT-	TXCLKOUT+	TXOUT3-	TXOUT3+	TXOUT4-	TXOUT4+
PIN	13	14	15	16	17	18
NAME	TXOUT5-	TXOUT5+	NC	NC	GND	WP_PANEL
PIN	19	20	21	22	23	24
NAME	NC	NC	LVDS_FORMAL	DDC_CTRL	GND	GND
PIN	25	26	27	28	29	30
NAME	GND	NC	VCC_PANEL	NC	VCC_PANEL	VCC_PANEL

# 8-4 Power Board Layout



**CN801 - AC Input**

PIN	I	2
NAME	Live	Netural
VOLTAGE	AC	AC

Functioning Define

- Refer to : AC Input

**CN801 - Main Board power supply**

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NAME	13V	GND	5.4V	5.4V	5.4V	GND	GND	GND	12V	12V	12V	GND	GND	GND	ST7V	PWR

Functioning Define

- ST7V Stand-By Output  
- PWR Power On/Off Control

- Refer to : CN801 function define

**CNM804 - Panel control**

PIN	1	2	3	4	5
NAME	SW_inverter	Ana_dimming	PWM_dimming	GND	SENSOR POWER

Functioning Define

- Refer to : CN815 function define

**CN802 - Inverter power supply**

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
NAME	24V	24V	24V	24V	24V	GND	GND	GND	GND	GND	GND	B/L	A_D	P_D

## Functioning Define

- AMLCD      Panel Inverter Power
- 24V        LAMP INVERTER Voltage
- B/L        Brightness sensor power
- A\_D        ANA\_DIMMING
- P\_D        PWM\_DIMMING

**CN803 - Inverter power supply**

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
NAME	24V	24V	24V	24V	24V	GND	GND	GND	GND	GND	A_D	B/L	P_D	GND

## Functioning Define

- AUO        Panel Inverter Power
- 24V        LAMP INVERTER Voltage
- B/L        Brightness sensor power
- A\_D        ANA\_DIMMING
- P\_D        PWM\_DIMMING