

Service Manual

ViewSonic VT2730-1M

Model No. VS13154-1M

27" LCD TV

(VT2730-1M_SM Rev. 1a Mar. 2010)

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Revision History

Revision	SM Editing Date	ECR Number	Description of Changes	Editor
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1. Precautions and Safety Notices

1. Appropriate Operation

- (1) Turn off the product before cleaning.
- (2) Use only a dry soft cloth when cleaning the LCD panel surface.
- (3) Use a soft cloth soaked with mild detergent to clean the display housing.
- (4) Disconnect the power plug from AC outlet if the product is not used for a long period of time.
- (5) If smoke, abnormal noise, or strange odor is present, immediately switch the LCD display off.
- (6) Do not touch the LCD panel surface with sharp or hard objects.
- (7) Do not place heavy objects on the LCD display, video cable, or power cord.
- (8) Do not use abrasive cleaners, waxes or solvents for your cleaning.
- (9) Do not operate the product under the following conditions:
 - Extremely hot, cold or humid environment.
 - Areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - Place in direct sunlight.

2. Caution

No modification of any circuit should be attempted. Service work should only be performed after you are thoroughly familiar with all of the following safety checks and servicing guidelines.

3. Safety Check

Care should be taken while servicing this LCD display. Because of the high voltage used in the inverter circuit, the voltage is exposed in such areas as the associated transformer circuits.

4. Power Supply Requirements









The external AC power operating range shall be from 90 to 264Vac

5. LCD Module Handling Precautions

5.1. Handling Precautions

- (1) Since front polarizer is easily damaged, pay attention not to scratch it.
- (2) Be sure to turn off power supply when inserting or disconnecting from input connector.
- (3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- (4) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.
- (5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.
- (6) Since CMOS LSI is used in this module, take care of static electricity and insure human earth when handling.
- (7) Do not open nor modify the Module Assembly.
- (8) Do not press the reflector sheet at the back of the module to any directions.
- (9) In case if a Module has to be put back into the packing container slot after once it was taken out from the container, do not press the center of the CCFL Reflector edge. Instead, press at the far ends of the CFL Reflector edge softly. Otherwise the TFT Module may be damaged.
- (10) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT Module.
- (11) After installation of the TFT Module into an enclosure (LCD monitor housing, for example), do not twist nor bend the TFT Module even momentary. At designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.
- (12) Cold cathode fluorescent lamp in LCD contains a small amount of mercury. Please follow local ordinances or regulations for disposal.
- (13) Small amount of materials having no flammability grade is used in the LCD module. The LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950 or UL1950), or be applied exemption.
- (14) The LCD module is designed so that the CFL in it is supplied by Limited Current Circuit (IEC60950 or UL1950). Do not connect the CFL in Hazardous Voltage Circuit.

5.2. Handling and Placing Methods

Correct Methods:	Incorrect Methods:
<p>Only touch the metal frame of the LCD panel or the front cover of the monitor. Do not touch the surface of the polarizer.</p>	<p>Surface of the LCD panel is pressed by fingers and that may cause "Mura"</p>
	
	
<p>Take out the monitor with cushions</p>	<p>Taking out the monitor by grasping the LCD panel. That may cause "Mura"</p>
	
<p>Place the monitor on a clean and soft foam pad.</p>	<p>Placing the monitor on foreign objects. That could scratch the surface of the panel or cause "Mura"</p>
	

2. Specification

LCD panel of this product shall be provided by “CMO” with a model number of M270H1-L01. The following table defines this panel specification. Any changes in panel must be pre-approved by ViewSonic in written.

Parameter	Specification
LCD Type	a-Si TFT Active Matrix Wide Color, Transmissive Mode, Normally Black
LCD Interface	2-Channel LVDS
Resolution (Native)	1920 x 1080
Display Area	27” diagonal; 597.89 (H) x 336.31 (V) mm
Pixel Pitch	0.3114 (H) x 0.3114(V) mm
Viewing Angle	H = 170, V = 160 with CR \geq 10 (Typical)
Contrast Ratio	1200:1 (Typical)
Brightness	300 nits (Typical)
Response Time	3.4 ms, (Typical), g-g
Brightness Uniformity	1.33 (Max), measured per panel spec.
Chromaticity(CIE1931)	White-x:0.313, White-y:0.329 (Standard Mode Only)
Colors	16.7M (8-bits)
Surface Treatment	Hard coating (3H)
Backlight	4 CCFLs (Cold cathode Fluorescent Lamp)
Preset Color	Panel Default
Gray Scale	0-255
Rated Life (Backlight)	> 50KHrs*(ILO at 3.0mA)
Front Screen Artifacts	VS Standard: a.) No Visible Streaking, Sag or Smearing artifacts when driven by the specified video cards (see 7.1 General Test Equipment) in the primary mode (VGA & 60 Hz) and after user adjustment b.) No image drift or lose fine-tune settings due to panel temperature change.
Panel Acceptance Spec	Refer to the panel acceptance criteria specification. Note: Intermittent and/or Display Pattern defects which result in further bright or dark dots will be counted individually against the above specification.

Note: Also refer to the panel defect acceptance specification.

Panel performance characteristics “MUST BE” met in all display modes/inputs at standard test conditions.

1. RF Tuner

RF tuner of this product shall be provided by “Samsung DTVA50FVH10109B” for NTSC/ATSC. The following table defines this tuner specification.

Parameter	Specification
RF Tuning Range	NTSC/ATSC: 55.25 to 803 MHz, 2-69 Channels for Off-Air and 1-125 Channels for CATV
RF Tuner Sensitivity (S/N Ratio at un-weight)	44 dB (min.)// 48 dB (max.)
Channel Bandwidth	NTSC/ATSC/Digital Cable: 6 MHz Maximum
CVBS Characteristics: Video Amplitude Signal	0.8(min.)–1.2(max.) V
Audio Characteristics: SIF out level	500mV (typ.)
Compatible system TUNER	NTSC/ATSC/QAM
Compatible system AV	NTSC M

2. Video

Built-in A/D converter shall provide analog to digital converter for this product.

Input Parameter	Specification
CVBS Characteristics: Video Amplitude Signal DC Level Sync Pulse	0.7(min.) – 1.1(max.) V Typical. 0.3 V
S-Video Characteristics: Video Amplitude Signal	Y : 1.0Vp-p W / Neg. Sync (IN 75 Ω) C : 0.285Vp-p (IN 75 Ω)
Y, Pb, Pr Characteristics: Video Amplitude Signal	Y:1.0Vp-p (IN 75 Ω) Pb:0.7 Vp-p(IN 75 Ω),Pr:0.7 Vp-p (IN 75 Ω)
Video Bandwidth	NTSC: 6 MHz Maximum
HDMI Characteristics	Panel Link T.M.D.S HDMI-1.3
RGB Characteristics: Signal Type Sync Type Input Signal Rating	Analog VGA TTL, Separate Sync, with 2.2KΩ pull-down resistors 1250mV Max without damage to the product, 0-700 mV Full Range 2.5-5.25 V
Sync Level: Frequency Range Pixel Color DDC Compliance	Horizontal: 30-82K Hz, Vertical: 55-76 Hz 16.7 M DDC2B Compliant, Rev 1.3
EDID Data Table	Refer to Appendix

3. Audio

Audio amp of this product shall be provided by “TI” with a Model Number of TPA3113D2 .
“MST” MSD3003 for VT2730-1M shall be used as sound processor. In addition, a pair of speakers shall be integrated within this product. The audio signals of this product shall comply with the specification listed in the following table.

Parameter	Specification	
	Tuner Input	Base band Input
Power Output Max Rating	5W at 10 % T.H.D Distortion	5W at 10% T.H.D Distortion
Speaker Impedance	main speaker :6Ω	main speaker :6 Ω
Line In	NTSC: BTSC Mono / Stereo(standard) PAL: FM Mono / Stereo(standard)	500 mV rms (Typ) 1.6 V rms (Max) Impedance: 600 ohms
Line Out earphone jack		500 mV rms 15 mW@32Ω
Flatness of Amplitude Response	+/- 3 db (at 1KHz @1W)	+/- 3 db (at 1KHz @1W)
Total Harmonic Distortion (Po=0.1 to 1 W, f=1KHz)	<2%	<2%
Signal to Noise:	12 dB (100Hz to 1KHz) 8 dB (1kHz to 10kHz)	35 dB (100Hz to 10 kHz)

4. Electrical

The following table defines the electrical specification of this product.

ELECTRICAL SPECIFICATION		
1	Power Input Voltage Range	100-240VAC +/- 10% Wide Range
2	Input Frequency Range	47-63 Hz
3	Input Current	1.0A @ 115VAC // 0.5A @ 230VAC
4	Power Supply Inrush	Max in < 80A (with fully loaded power supply) at 230Vac Shall not result in permanent failure of power supply (including blown fuse)
5	Power Consumption:	70 W (Normal), 75W (Max) // Stand by: < 1W
6	Interference with RF and Video	There shall be no visible interference between power supply, RF and video signals. This applies to all available RF channels and video modes.
7	Electromagnetic Compatibility	This product shall adhere to the compatibility and immunity specifications in FCC.
8	Power Supply Transient Immunity (Supply Transients and Outage)	Able to withstand an ANSI / IEEE C62.41 – 1980 2000V ring wave with no damage.
9	Surge Immunity Test	Able to withstand 1.25X nominal Line Voltage for one cycle with no damage.
10	Power Supply Missing Cycle Immunity	Function properly without reset or visible screen artifact when 1/3 cycle of AC Power is randomly missing.
11	Power Supply Acoustics	The Power Supply shall not produce audible noise that would be detectable by the user (Excluding Power Supply Fan). “Audible” shall be defined in accordance with ISO 7779 (DIN EN27779:1991). Power Switch noise shall be Excluded.
12	Efficiency	>= 80% @ full load, nominal line
13	Leakage Current	<0.5mA @ 240VAC
14	Power Saving(DPMS)	N/A
15	Recovery Time	< 3 sec.
16	Power Factor Correction	Compliant with EN61000-3-2

5. Firmware & OSD

The product firmware of VS13154-1M shall have a firmware version of V2.00EB0. Any changes/revisions afterward shall also be pre-approved by ViewSonic in written. For VS13154-1M, its firmware shall have a built-in frequency table for NTSC/ATSC off-air TV/CATV, and with MTS implementation.

All audio/video and other output adjustments shall be performed by using an On Screen Display (OSD) via a Remote Control Unit (RCU) in conjunction with the front panel adjustments. The following tables list the OSD functions supported by VS13154-1M.

OSD Table for VS13154-1M

PICTURE	Picture Mode	Standard, Dynamic, Soft ,Personal
	Contrast	0~50~100
	Brightness	0~50~100
	Sharpness	0~50~100
	Tint	0~50~100
	Color	0~50~100
	Color Mode	Cool, Normal, Warm, Personal

	Zoom Mode	Movie Scale, Zoom In,4:3, Normal
	NR	Middle, Strong, Off, Weak,
AUDIO	Sound Mode	Standard, Music, Movie, Sports, Personal
	Treble/Bass	Bass, Treble, Balance
	Audio Language(ATSC)	English, French, Spanish
	Surround Sound	SRS TruSurround HD, Off
	Audio Only	On, Off
TIME	Sleep Timer	OFF, 5,10,15,30,45,60,90,120,180,240 Min
	Time Zone	Pacific, Alaska, Eastern, Central, Mountain, Hawaii, Atlantic
	DST	On, Off
	Time-Format	12/24-hour
	Auto Sync	On, Off
	Clock	Year, Month, Day, Hour, Min, OK, Cancel
OPTION	Menu Language	English, French, Spanish
	Transparency	0%,25%,50%,75%,100%
	OSD Time Out	5,15,30,45,60 sec.
	Closed Caption	CC off, CC on, CC on mute
	Basic Selection	off, CC 1~4 Text 1~4
	Advanced Selection(ATSC)	off, Service 1~6
	Option(ATSC)	Custom, Font style, Front size, Font edge style
		Font edge color, FG color, BG color, F G Opacity
		DG Opacity
	Restore Default	Yes, No
	Input label	TV,AV,S-Video, YPbPr, HDMI1, HDMI2,HDMI3,PC, USB
	DCR	On, Off
	Display Mode	Home, Retail
	Media	SlideShow Timer 5Sec,10sec,30Sec,1Min,30Min
	Trans. Effect	Random, None, Right Drag Left Drag, Down Drag, Up Drag, S-Play, N-Play, Fade In/Out, Fly In/Out
File List Sorting	None, Sort by Name, Sort by Name Z->A, Sort by Size, Sort by Date, Sort by Date New->Old	
SlideShow Repeat	on, Off	
CHANNEL	TV Source	Air, Cable
	Auto Scan	Scan all channels, Digital channel only, Analog channel only
	Favorite	
	Show/Hide	
	Channel No.	
	Channel Label	
	DTV Signal	
LOCK	Enter Password	

6. Remote Control Unit (RCU)

An IR remote control unit shall accompany this product along with battery. In addition, this remote control unit shall have an operational distance of 5 meters and an operational angle of 15 degrees for both horizontal and vertical. Besides the key-code and protocol has fully conformed to VS standard.

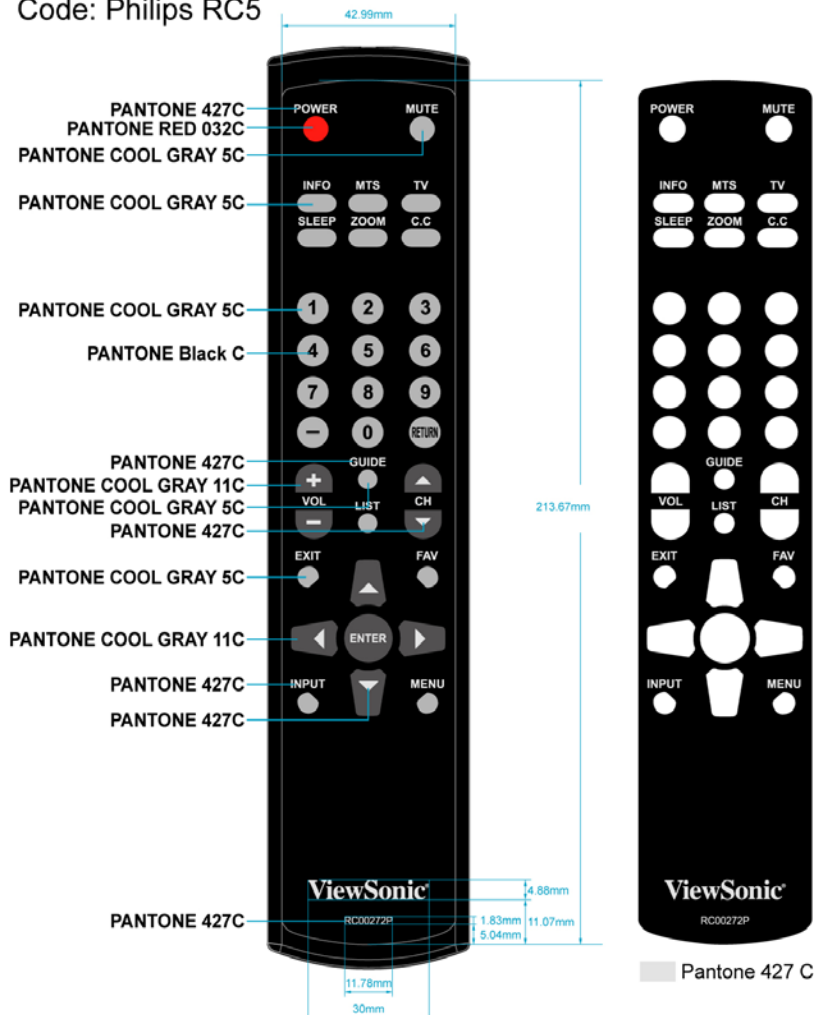
Parameter	Specification
Type	IR; Made by Sighter Electronics Co., Ltd.
Range	Off axis $\pm 15^\circ \geq 5M$ On axis: $\geq 7M$
Life Testing (Buttons)	100,000 cycle operations at a rate of 20~30 cycle / minute without load (with battery)
Color	Painting Color - PANTONE 427C (Black for front & back cover) Power Key - PANTONE 032C (RED) Key Pads – PANTONE 10C & PANTONE 7C(Cool Gray)
Protocol	VS key-code & protocol.

ViewSonic 35-Key ATSC Remote Control

P/N: 2419200272P

Date: 2009.11.03

Code: Philips RC5



7. Mechanical

The following table defines the mechanical specifications of this product for both chassis and cabinet.

Parameter	Specification
Dimension W/O stand	646.3 x 465.7 x 227.8 mm 646.3x 409.7x 74.8 mm
Net Weight	6.97 kg
Gross Weight	8.85 kg
Net weight *without* stand	5.58 kg
Chassis Plastic Material	ABS (ABS HB / PC)
External Plastic Chassis Components	Plastic Chassis, Cover, Stand (Metal + Plastic), Lens and Button
Exterior Chassis Color/Texture/Details	Refer to – Product ID Guide
Chassis Color Drift Due to UV-Light	The color drift due to UL-Light shall be less than 10 “Delta E” in the 1976 CIE L*a*b color space. Testing shall be performed according to the requirements of ASTM Test Method D4459-93.
Molded Plastic	Workmanship shall be inspected according to ViewSonic Molded Plastic Parts Specification, VSCMPPSPEC001V1.2.
Screen Printed Parts, Bird Logo Recess	Artwork shall be provided and confirmed by ViewSonic.
Rear Label	A label identifying the product name, model/serial number and FCC ID/Logo shall be placed into the rear label recess located on the rear panel of the chassis.
Wall Mount	100 mm x 200 mm VESA high hole (n=4), M4 X 10mm , pitch =0.7mm screw mounting kit not included.
Sample	Sample of textured color chips, plastic material specification, and Material Safety Data Sheets shall be submitted to ViewSonic prior to Mass Production Release.

In addition, all exterior surfaces shall have uniform texture/color. The maximum acceptable gap between the buckets to bezel plastic pieces shall be within 1 mm. The maximum acceptable gap between LCD panel and bezel shall be within 1.5 mm.

8. Environmental

The following table defines the operational/storage conditions of the product.

Operating Temperature	0°C to +40°C
Humidity	10% ~ 65% non-condensing
Altitude	0 meter to +2000 meters above sea level
Storage Temperature	-20°C to +60°C
Humidity	0 ~ 90% non-condensing
Altitude	0 meter to 12,000 meters above sea level

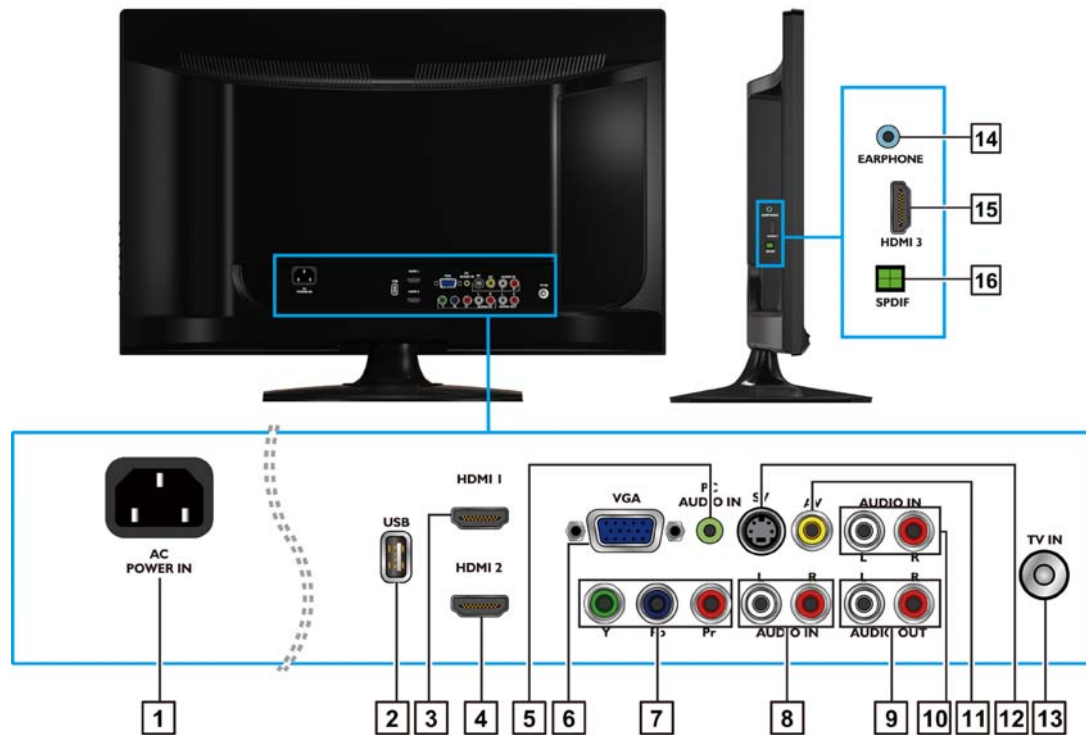
3. Front Panel Function Control Description

Front View of the Product



Item	Description
1 Power LED Indicator	Lights up in blue when the TV is turned on. Lights up in orange when the TV is in standby mode.
2 Remote Control Receiver	Receives IR signals from the remote control.
3 Volume Up	Increase sound volume or adjust a highlighted control while in OSD menu.
4 Volume Down	Decrease sound volume or adjust a highlighted control while in OSD menu.
5 MENU	Turn OSD menu ON/OFF.
6 CH Up	Channel up when source is TV, or select a control while in OSD menu.
7 CH Down	Channel down when source is TV, or select a control while in OSD menu.
8 INPUT	Select input source.
9 Power ON/OFF button	Turn the power on from standby mode or turn the power off to return to the standby mode.

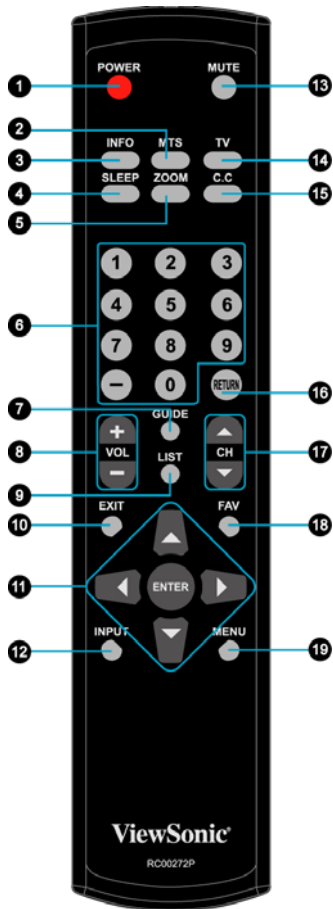
Rear View of the Product



Item	Description
1 Power (AC input)	Plug-in the supplied AC Power cord and connect to the AC input power source.
2 USB	Connect to your USB devices, such as USB flash drive/ portable hard drive.
3 HDMI 1 Input Terminal	Connect this port to the HDMI output of A/V device.
4 HDMI 2 Input Terminal	Connect this port to the HDMI output of A/V device.
5 PC Audio input	Connect the RGB Audio Out on your computer to the RGB Audio on the rear of the LCD TV.
6 VGA signal input	Connect a 15-pin D-sub RGB cable to the RGB output of your computer and the other end to the RGB input on the rear of the LCD TV.
7 YPbPr signal input	Connect this port to the YPbPr output of A/V device.
8 YPbPr signal Audio input (left/ right)	Connect the Audio in cable for YPbPr from this jack to the corresponding connectors on your A/V device.
9 Audio output	Connect this port to your A/V device with audio in (RCA) connectors or to audio amplifier.
10 AV/ S-Video Audio input (left/ right)	Connect the Audio in cable for AV/ S-Video from this jack to the corresponding connectors on your A/V device.
11 Composite Video input	Connect this jack to the composite video output connectors on your A/V equipment.

Item	Description
12 S-Video input	Connect the S-Video cable from the compatible device to this connector on the rear panel of the LCD TV.
13 TV Input Jack	Connect this jack to your Cable or VHF/UHF antenna.
14 Headphone Jack	Connect to your headphones. By connecting the headphones, you can listen to the sound from the TV on headphones. * If you connect the headphones, the TV speakers will be muted.
15 HDMI 3 Input Terminal	Connect this port to the HDMI output of A/V device.
16 SPDIF Optical output	Connect this port to the SPDIF input of A/V device.

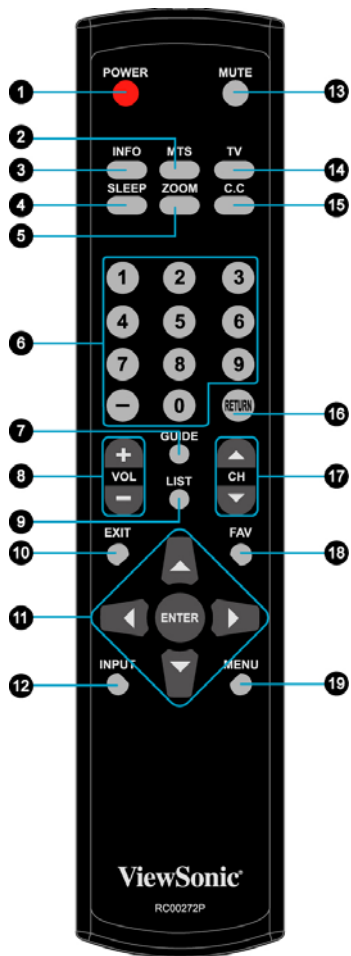
Remote Control



Buttons located at the side of the LCD TV will operate the same as these buttons on the remote control.



Button	Description
1 POWER	Power ON/OFF
2 MTS	Select Mono, Stereo or SAP sound
3 INFO	Display current information
4 SLEEP	Set timer to turn off TV
5 ZOOM	Adjust window size
6 0~9, - number buttons	Directly channel select



Button	Description
7 GUIDE	Show electronic program guide (EPG)
8 - VOL +	Press to adjust the volume.
9 LIST	Select channel from program list
10 EXIT	OSD exit
11 ▲▼◀▶/ ENTER buttons	Press these buttons to navigate the OSD menus. ▲/▼ is for menu and function select, and ◀/▶ is for function adjustment. ENTER: Enter the function setting.
12 INPUT	Input source select
13 MUTE	Volume mute ON/OFF
14 TV	Direct to TV source
15 C.C	Select caption mode
16 RETURN	Press to return to previous channel.
17 ▼ CH ▲	Press to change the channels up or down.
18 FAV	Select from preset Favorite Channels
19 MENU	Press to turn the OSD (On-Screen Display) menu on.

Operation

Storing Channels into Memory

1. Press the **MENU** button to display the OSD main menu.
2. Press ◀ or ▶ to select the “CHANNEL” menu, then press **ENTER** or ▼ to enter the menu. Press ▲ or ▼ to select “TV Source”, and use ◀ or ▶ to select the antenna connection to “Air” or “Cable”.
Air: RF signal programs by “Air”.
Cable: RF signal programs by “Cable”.
3. Press ▲ or ▼ to select “Auto Scan”, then press ▶ to enter.
4. Press ▲ or ▼ to select “Scan all channels”, “Digital channel only”, or “Analog channel only” and press ▶ to perform Auto Scan function.
To stop scanning, press **MENU** at any time.
5. The Auto Scan screen will be shown, and after it is done, the screen will return to the first found channel.



Viewing the Menus

1. Press the **MENU** button to display the OSD main menu.
There are six top menus on the screen: PICTURE, AUDIO, TIME, OPTION, LOCK, and CHANNEL.
(CHANNEL menu can only be enabled in TV source.)
2. Press ◀ or ▶ to select your desired top menu.
3. Press **ENTER** or ▼ to enter the menu you select.
4. Use ▲ ▼ to select the control you want to adjust.
5. When selecting the control with ▶, press ▶ to enter next level menu or enable the function. (▶ will only appear when the control is highlighted)
6. Press ◀▶ to adjust or select the settings.
7. Press **MENU** to exit from the OSD menu.



Selecting the Input Source

To select the TV or other external input sources connected to the TV.

1. Press the **INPUT** button on the remote control.
2. Press **▲** or **▼** to select the required input source between TV, AV, S-Video, YPbPr, HDMI1, HDMI2, HDMI3, PC or USB.
(When in USB input source, the system only supports JPEG, BMP and PNG image files.)
3. To confirm the selection, press **ENTER**.



Favorite Channel Setting

To set your favorite channel into memory:

1. Press the **MENU** button to display the OSD main menu.
2. Press **◀** or **▶** to select the “CHANNEL” menu, then press **ENTER** or **▼** to enter the menu. Press **▲** or **▼** to select “Favorite”, then press **▶** button to enter “Favorite” setting.
3. Press **▲** or **▼** to select the channel you’d like to be your favorite channel.
Press **ENTER** to confirm your selection.
4. To cancel the selection, Press **ENTER** again on the selected channel.
5. Press **MENU** to exit.

*To view your favorite channels, press **FAV** button to show Favorite List and select your favorite channels that have already been stored.



Adding/Erasing Channel

When the channel is erased, it will not appear on the screen when you browse the channels with **▼CH▲** button. To see the channel again, you must add the channel or perform the “Auto Scan” (page 11) function again.

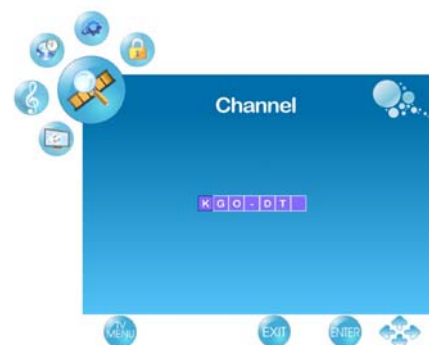
1. Press the **MENU** button to display the OSD main menu.
2. Press **◀** or **▶** to select the “CHANNEL” menu, then press **ENTER** or **▼** to enter the menu. Press **▲** or **▼** to select “Show/Hide”, then press **▶** button to enter “Show/Hide” setting.
3. Press **▲** or **▼** to select the channel you want to Show/Hide, and check or uncheck it with **ENTER** button.
4. Press **MENU** to exit.



Channel Name Setting

To edit a name for the current channel:

1. Press the **MENU** button to display the OSD main menu.
2. Press **◀** or **▶** to select the “CHANNEL” menu, then press **ENTER** or **▼** to enter the menu.
3. Press **▲** or **▼** to select “Channel No.,” then press **◀** or **▶** to select the channel you want to edit the name.
4. Press **▲** or **▼** to select “Channel Label”, then press **▶** button to enter “Channel Label” setting.
5. Use **▲** or **▼** to choose letters or signs, **◀** or **▶** to move forward or backward.
6. After you input the channel name, press **MENU** or **ENTER** to complete the setting.
7. Press **MENU** to exit.



Adjusting the Settings

1.

- (1) Press the **MENU** button to display the OSD main menu.
- (2) Press **◀** or **▶** to select your desired top Menu, then press **ENTER** or **▼** to enter the menu.
- (3) Press **▲** or **▼** to select the control of “Contrast”, “Brightness”, “Sharpness”, “Tint”, “Color”, “Bass”, “Treble”, “Balance”, then press **◀** or **▶** to adjust the level.
- (4) Press **MENU** to exit.

2.

- (1) Press the **MENU** button to display the OSD main menu.
- (2) Press **◀** or **▶** to select your desired top Menu, then press **ENTER** or **▼** to enter the menu.
- (3) Press **▲** or **▼** to select the control of “Picture Mode”, “Color Mode”, “Zoom Mode”, “Noise Reduction”, “Sound Mode”, “MTS”, “Audio Language” (only in DTV mode), “Surround Sound”, “Audio Only”, “Sleep Timer”, “Time Zone”, “DST”, “Time Format”, “Auto Sync”, “Menu Language”, “Transparent”, “OSD Time Out”, “DCR” (Dynamic Contrast Ratio), “TV Source”, “Channel No.”, then press **◀** or **▶** to select your desired option.
- (4) Press **MENU** to exit.

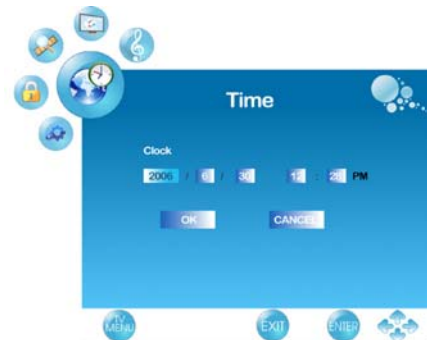
3.

- (1) Press the **MENU** button to display the OSD main menu.
- (2) Press **◀** or **▶** to select your desired top Menu, then press **ENTER** or **▼** to enter the menu.
- (3) Press **▲** or **▼** to select the control with **▶**, including “Clock”, “Closed Caption”, “Restore Default”, “Input Label”, “Auto Scan”, “Favorite”, “Show/Hide”, “Channel Label”, then press **▶** to perform the function or enter detailed settings.



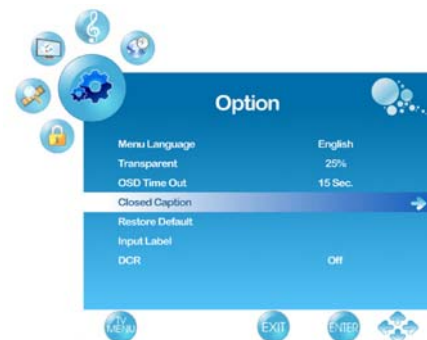
Setting up Time menu

1. Press the **MENU** button to display the OSD main menu.
2. Press ◀ or ▶ to select the “TIME” menu, then press **ENTER** or ▼ to enter the menu.
3. Press ▲ or ▼ to select “Sleep Timer”, and press ◀ or ▶ to set the “Sleep Timer” from 5~240 min, or Off.
4. Press ▲ or ▼ to select “Time Zone”, and select the correct time zone of your area with ◀ or ▶. The displayed time of “Clock” will be changed at the same time automatically. To adjust “Clock”, select “Clock” and press ▶. Use ◀ or ▶ to change between year/ month/ date/ hour/ minute, ▲ or ▼ to adjust. When you finish adjustment, select “OK” and press **ENTER** to complete the setting.
* The “Clock” time can only be adjusted manually when “Auto Sync” is set to “Off”.
5. Press ▲ or ▼ to select “DST” (Daylight Saving Time), and select On or Off with ◀ or ▶ according to the time zone of your area. The “Clock” time will change automatically.
6. Press ▲ or ▼ to select “Time Format”, and ◀ or ▶ to select 12-hour or 24-hour.
7. Press **MENU** to exit.



Closed Caption Setting

1. Press the **MENU** button to display the OSD main menu.
2. Press ◀ or ▶ to select the “OPTION” menu, then press **ENTER** or ▼ to enter the menu.
Press ▲ or ▼ to select “Closed Caption”, then press ▶ button to enter “Closed Caption” setting.
3. Press ▲ or ▼ to select CC Mode, Basic Selection, or Advanced Selection, and use ◀ or ▶ to make your choice.
Basic Selection: To set basic analog closed caption options. (CC1~CC4, TEXT1~TEXT4, Off)
Advanced Selection: To select closed caption signal formats and set up caption modes for digital TV channels. (Service1~6, Off)



For detailed Close Caption setting:

1. Press ▲ or ▼ to select “Option”, then press ► to enter “Option” setting.
2. Press ◀ or ▶ to select the Mode to be “Custom”, and then use ▲ or ▼ to select desired options and use ◀ or ▶ to adjust detailed settings.
* When you select the Mode to be “Default”, you can not adjust the detailed settings.



Using the Parent Controls

1. Press the **MENU** button to display the OSD main menu.
2. Press ◀ or ▶ to select the “LOCK” menu.
3. Press **ENTER** or ▼ to enter Password.
4. Enter the password. (The default password is 0000)
5. Move to “System Lock”, and select “On” to enable the detailed settings.
6. Move to “US” or “Canada” rating system.



US: Press ► to set TV or MPAA ratings.

(1) TV

1. Press ▲ or ▼ to select “TV”, then press ► to enter “TV” rating system setting.
2. Press ▲ or ▼ to select your desired TV ratings level.

The following screen will allow you to customize the following TV ratings:

- Y** (all children)
- Y7** (older children)
- G** (general audience)
- PG** (guidance suggested)
- 14** (strongly cautioned)
- MA** (mature audience)

You can also customize the TV ratings for the following content:

- ALL** (All types content)
- FV** (fantasy violence)
- V** (violence)
- S** (sexual situations)
- L** (adult language)
- D** (sexual dialog)

3. Press **ENTER** to set or reset each area.
4. Press **MENU** to exit.

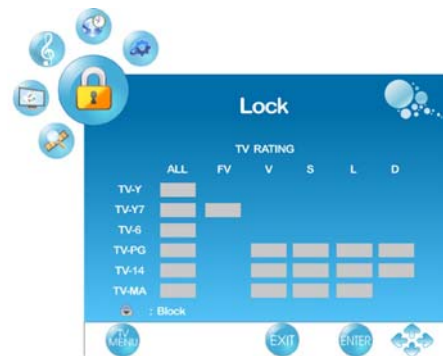
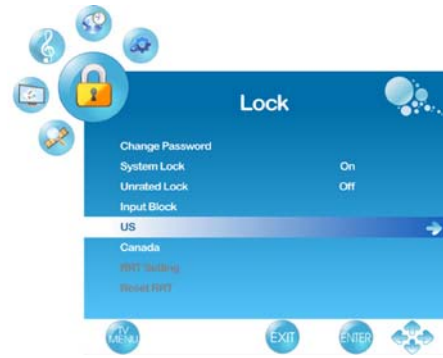
(2) MPAA

1. Press ▲ or ▼ to select “MPAA”, then press ► to enter “MPAA” rating system setting.
2. Press ▲ or ▼ to select your desired MPAA ratings level.

The MPAA ratings level are defined as following:

- G** (general audience)
- PG** (parental guidance suggested)
- PG-13** (recommended for children 14 years of age or older)
- R** (mature audience)
- NC-17** (no one under 17 years of age)
- X** (adult audience only)
- N/A** (not applicable)

3. Press ▲/▼ to set or reset each area.
4. Press **MENU** to exit.



Canada: Press ► to set Canadian English and French ratings.

(1) Canadian English

1. Press ▲ or ▼ to select “Canada Eng”.
2. Press ► to enter.
3. Press ▲ or ▼ to select your desired Canadian English rating level.

The Canadian English rating levels are defined as following:

- C (children)
- C8+ (children eight years and older)
- G (general programming, suitable for all audiences)
- PG (parental guidance)
- 14+ (viewers and older)
- 18+ (adult programming)
- EXEMPT (exempt)

4. Press ▲/▼ to set or reset each area.
5. Press **MENU** to exit.



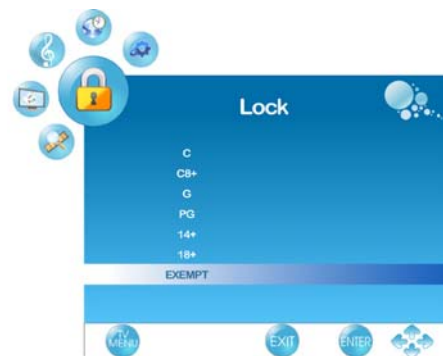
(2) Canadian French

1. Press ▲ or ▼ to select “Canada Fre”.
2. Press ► to enter.
3. Press ▲ or ▼ to select your desired Canadian French rating level.

The Canadian French rating levels are defined as following:

- G (general)
- 8ans+ (children eight years and older)
- 13ans+ (not appropriate for children of less than 13 years)
- 16ans+ (not appropriate for children of less than 16 years)
- 18ans+ (reserved to adults)
- EXEMPT (exempt)

4. Press ▲/▼ to set or reset each area.
5. Press **MENU** to exit.



To Block Unrated Movie or TV Programs

1. Press ▲ or ▼ to select “Unrated Lock”, then press ◀ or ▶ to select “On” or “Off”. When “On” is selected, all programs that are not rated will be blocked.
2. Press MENU to exit.

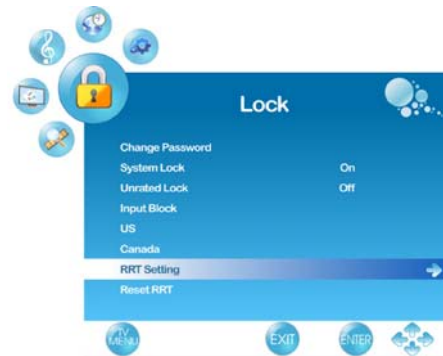


To Set Rating Region Table

RRT Setting defines the rating standard for a particular geographic region and/ or country.

1. Press ▲ or ▼ to select “RRT Setting”, then press ▶ to enter RRT setting.
2. Select each adjustable setting with ▲ or ▼, then press ◀ or ▶ to select the sub-selection.
3. Press MENU to exit.

- *The picture here only shows an example of the content of RRT Setting. However, the selections and sub-selections of RRT Setting may be different in your OSD menu according to the local broadcasting system.
- *To reset RRT setting, move to “Reset RRT”, and press ▶ to reset.



To Change Password

1. Press ▲ or ▼ to select “Change Password”, then press ▶ to enter “Change Password” setting.
2. Move to “Enter Old Password”, then enter the old password with number keys.
3. Enter your new password on “Enter New Password”.
4. Enter your new password again on “Confirm Password”.

After you complete the last step, the screen will return to the top page of LOCK menu. If so, the password has been changed successfully.



To block by Input Source

1. Press ▲ or ▼ to select “Input Block”.
2. Press ▲ or ▼ to select the input source, then ◀ or ▶ to select from “Block” or “UnBlock”.
3. Press MENU to exit.



To Restore Factory Setting

1. Press the MENU button to display the OSD main menu.
2. Press ◀ or ▶ to select the “OPTION” menu.
3. Press ENTER or ▼ to enter “OPTION” menu.
4. Press ▲ or ▼ to select “Restore Default”, then press ▶ to restore the factory default setting.
5. Select “Yes” and press ENTER to confirm the setting.

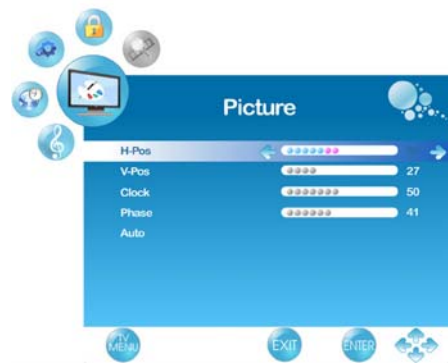
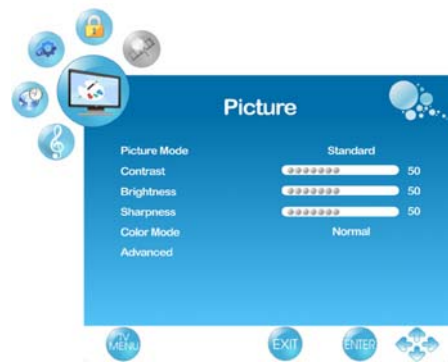


Using PC Function

1. When in PC source, press the **MENU** button to display the OSD main menu.
2. Press ◀ or ▶ to select the “PICTURE” menu, then press **ENTER** or ▼ to enter the menu.
3. Press ▲ or ▼ to select your desired controls, and press ◀ or ▶ to adjust.
4. For advanced PC functions, select “Advanced” (only in PC source) and press ▶ to enter.
5. Press ▲ or ▼ to select “H-Pos” (H-Position), “V-Pos” (V-Position), “Clock”, “Phase” or “Auto” (Auto adjustment), and adjust the level with ◀ or ▶.

* When in PC source, the other menus are the same as or similar to when in other source.

* When there is no signal in the PC mode, “No Signal” will be displayed on the screen and the TV will automatically turn into power-saving mode after a few seconds’ idleness. Press **INPUT** or **POWER** button on the remote control and the TV will return to VGA mode.



Using USB Function

1. When input source is selected to USB, insert the USB device into the USB jack. USB only supports JPEG, BMP and PNG image files (With ♥ symbol).
2. Use ▲ or ▼ to select the folder you want, and press **ENTER** (See Figure1).
3. Return to main menu, press ▲ or ▼ to "--" and press **ENTER** (See Figure 2). Use ▲ or ▼ to select the image files you want, and press **ENTER** (See Figure 3).



Figure1



Figure2



Figure3



Figure4

In USB mode, you can use the buttons to make following functions:

Press **INFO** can view all of the functions (See Figure 4)

- * Press **EXIT** go back to the previous page.
- * Use ► or ◀ to display the next or previous picture.
- * Use ▲ or ▼ to rotate right or rotate left the picture.
(Only available in X1.0 mode)
- * Press **ZOOM** to zoom in. (X1.5~X4.0)
- * When the Zoom mode, press ▲▼◀▶ to move.
- * Press **ENTER** to auto-play or stop the pictures.

In “Option” menu can setup following functions:

1. Press the **MENU** button to display the OSD main menu.
2. Press ◀ or ▶ to select “Option” menu, then press **ENTER** or ▼ to enter the menu. Press ▲ or ▼ to select “Media”, and use ► to enter “Media” setting.

•SlideShow Timer:

To select the pictures auto-play interval time.

•Trans. Effect:

To select the auto-play effects of the slide show.

•File List Sorting:

To select the pictures arrange.

•SlideShow Repeat:

To select the slide show repeat to On or Off.



Annotations for OSD Menu Items

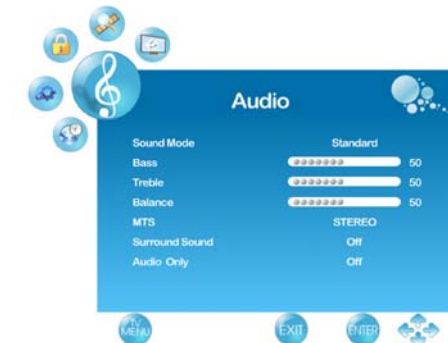
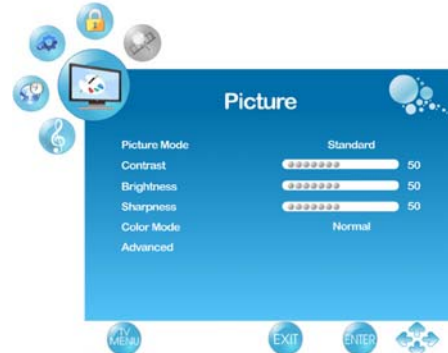
See below for meanings of the control items in each menu.

Picture menu

- **Picture Mode:** To select picture mode.
- **Contrast:** To adjust contrast of video.
- **Brightness:** To adjust luminance of video.
- **Sharpness:** To adjust picture sharpness.
- **Tint:** To adjust tint level.(Except PC source)
- **Color:** To adjust color.(Except PC source)
- **Color Mode:** To select and adjust color mode.
- **Zoom Mode:** To select image size between Normal, Movie Scale, Zoom in and 4:3.(Except PC source)
- **Noise Reduction:** To reduce the noise level of connected equipment.(Except PC source)
- **Advanced:** To fine tune the image. (Only enabled in PC source)
 - * **H. Pos:** To adjust the horizontal position of the picture.
 - * **V. Pos:** To adjust the vertical position of the picture.
 - * **Clock:** To adjust delay time of clock in order to reduce the noise of picture.
 - * **Phase:** To adjust delay time of phase in order to reduce the noise of picture.
 - * **Auto:** To auto adjust picture's horizontal position, vertical position, clock, phase, fine tune and H-Size.

Audio menu

- **Sound Mode:** To select Sound modes.
- **Bass:** To adjust bass.
- **Treble:** To adjust the treble.
- **Balance:** To adjust left and right audio balance.
- **Audio Language:** To select available audio language. (Only available in DTV)
- **Surround Sound:** To select "SRS TruSurround HD" effect or not.
- **Audio Only:** To turn off the screen picture but keep the sound on.
- **MTS:** To select audio mode.(EX: Mono, Stereo, SAP) (Only available in ATV)



Time menu

- **Sleep Timer:** To set the off timer.
- **Time Zone:** To select the time zone appropriate to your location.
- **DST:** To turn on/off daylight saving.
- **Time Format:** To select 12-hour or 24-hour.
- **Auto Sync:** To turn on/off Auto Sync.
- **Clock:** To set the clock.



Option menu

- **Menu Language:** To select OSD language.
- **Transparent:** To select OSD (On Screen Display) transparent level.
- **OSD Time Out:** To select OSD show time.
- **Closed Caption:** To set close caption options. (Only available in TV, AV, S-Video source)
- **Restore Default:** To restore the factory default settings.
- **Input Label:** To Change the input source name.
- **DCR:** To turn on/off the DCR (Dynamic Contrast Ratio) function.(Except USB source)
- **Over Scan:** To select this function to On or Off in HDMI1, HDMI2 and HDMI3.(Only available when input signal is in video timing. Ex:480i, 480p, 720p, 1080i, 1080p)
- **Media:** To set the picture slide show setting.(Only available in USB source)



Lock menu

- **Change Password:** To Change the current Password.
- **System Lock:** To select On or Off to Lock parent control.
- **Unrated Lock:** To block unrated movie or TV programs.
- **Input Block:** To block by input source.
- **US:** Select TV and MPAA to set the parent control.
- **Canada:** Select Canadian English and Canadian French to set the parent control.
- **RRT Setting:** To set Rating Region Table.
- **Reset RRT:** To reset Rating Region Table.



Channel menu

- **TV Source:** To select TV source. Select “Cable” to watch cable TV channels, and select “Air” to watch air TV channels.
- **Auto Scan:** To auto scan ATV and DTV channels.
- **Favorite:** To set your favorite channel into memory .
- **Show/Hide:** To set the channel show or hide.
- **Channel No.:** To select the channel you want to edit the name.
- **Channel Label:** To edit a name for the current channel.
- **DTV Signal:** To display the detected signal strength of the current DTV channel.



Notes:Initial password:0000

If you forget your initial password,you can press"3660"to resume.

4. Circuit Description

- **A/D converter**

This brick convert is the 110-220AC input voltage to 24V output for inverter use and 5V for panel , system and audio use and 3.3V,1.8V for controller use.

- **INVERTER**

In order to drive the CCFLs embedded in the panel module, there is a half bridge inverter to convert by the controller.

The input 24V up to hundreds of AC voltage output.

The inverter is formed by symmetric in order to drive the separate lamp modules.

The input stage consists of a PWM controller, half bridge inverter, and switching MOSFET to convert DC input into AC output.

The output stage consists of a tuning capacitor, coupling capacitor, transformer, push-pull MOSFET pair to boost AC output up to hundreds of voltage.

And one resistor is serial to lamp for output voltage feedback.

There are two signal to control the inverter which come from system.

Logic “high” level which send to I901 is turn on the inverter.

BRI signal control brightness by DC level which was integral from PWM signal.

- **I113 Scaler MSD3003EG**

The MSD3003EG is a highly integrated controller IC for LCD/PDP DTV applications with resolutions up to full-HD (1920 x 1080). It is configured with an integrated triple-ADC/PLL, a multi-standard TV video and audio decoder, a motion adaptive video de-interlacer, a scaling engine, the MStarACE-3 color engine, an advanced 2D graphics engine, a transport processor, a high-definition (HD) MPEG video decoder, a 24-bit DSP for MPEG audio decoding, a DVI/HDCP/HDMI receiver, and a peripheral control unit providing a variety of HDTV control functions.

For digital TV application, the MSD3003EG comprises an MPEG-2 transport processor with advanced section filtering capability, an MPEG-2 (MP@HL profile) video decoder, Dolby Digital (AC-3)/MPEG layer I and II digital audio decoder with analog audio outputs that are designed to support ATSC HD/SDTV programs while handling ATSC CC and EPG. With additional software support, the MSD3003EG can be used in DVB-T standard areas such as part of Asia, Africa, and Australia. Furthermore, it is also possible to decode JPEG, MP3 formats from external sources such as USB interfaces.

For analog TV the MSD3003EG includes NTSC/PAL/SECAM multi-standard video decoder comprising a 3D motion adaptive comb filter and time-based correction, and a BTSC/A2/EIA-J audio decoder to support worldwide television standards. In addition, the MStar advanced LCD TV processor enhances video quality, motion adaptive de-interlacer, picture quality adjustment units, and MStarACE-3 color engine.

For multimedia applications, the MSD3003EG includes an build-in MStar’ s proprietary M-link interface, making it possible for the MSD3003EGto decode media (such as H.264 or MPEG-4) files via the companion chip.

By integrating peripherals including USB 2.0 host controller, UART, IR, SPI, I2C, and PWM, the MSD3003EG fulfills

all requirements in advanced DTV sets. To further reduce system costs, the MSD3003EG also integrates intelligent power management control capability for green-mode requirements and spread-spectrum support for EMI management.

PIN DESCRIPTION

VCLAMP CVBS/YC Mode Clamp Voltage Bypass H3

REFP Internal ADC Top De-coupling Pin H4

REFM Internal ADC Bottom De-coupling Pin H5

REXT Analog Input External Resistor 390 ohm to AVDD_33 F4

HSYNC0 Schmitt Trigger Input w/

5V-tolerant
 HSYNC / Composite Sync for VGA Input from channel 0 K6
 VSYNC0 Schmitt Trigger Input
 VSYNC for VGA Input from channel 0 J6
 HSYNC1 Schmitt Trigger Input
 HSYNC / Composite Sync for VGA Input from channel 1 G6
 VSYNC1 Schmitt Trigger Input
 VSYNC for VGA Input from channel 1 G5
 VSYNC2 Schmitt Trigger Input
 VSYNC for VGA Input from channel 2 T3
 BINM Analog Input Reference Ground for Analog Blue Input N3
 BIN0P Analog Input Analog Blue Input from Channel 0 N2
 BIN1P Analog Input Analog Blue Input from Channel 1 J1
 BIN2P Analog Input Analog Blue Input from Channel 2 R3
 GINM Analog Input Reference Ground for Analog Green Input N1
 GIN0P Analog Input Analog Green Input from Channel 0 M3
 GIN1P Analog Input Analog Green Input from Channel 1 J3
 GIN2P Analog Input Analog Green Input from Channel 2 T2
 SOGIN0 Analog Input Sync On Green Input from Channel 0 L3
 SOGIN1 Analog Input Sync On Green Input from Channel 1 J2
 SOGIN2 Analog Input Sync On Green Input from Channel 2 T1
 RINM Analog Input Reference Ground for Analog Red Input M2
 RIN0P Analog Input Analog Red Input from Channel 0 M1
 RIN1P Analog Input Analog Red Input from Channel 0 K1
 RIN2P Analog Input Analog Red Input from Channel 0 U1
 Analog Video Input/Output Interface
 Pin Name Pin Type Function Pin
 CVBS7 Analog Input CVBS (Composite) Video Input Channel 7 K3
 CVBS6 Analog Input CVBS (Composite) Video Input Channel 6 K2
 CVBS5 Analog Input CVBS (Composite) Video Input Channel 5 L2
 CVBS4 Analog Input CVBS (Composite) Video Input Channel 4 L1
 CVBS3 Analog Input CVBS (Composite) Video Input Channel 3 P3
 CVBS2 Analog Input CVBS (Composite) Video Input Channel 2 R2
 CVBS1 Analog Input CVBS (Composite) Video Input Channel 1 R1
 CVBS0 Analog Input CVBS (Composite) Video Input Channel 0 W3
 VCOM1 Analog Input CVBS Input Reference Ground P2
 VCOM0 Analog Input CVBS Input Reference Ground Y3
 CVBSOUT0 Analog Output CVBS (Composite) Video Output Channel 0 U2
 CVBSOUT1 Analog Output CVBS (Composite) Video Output Channel 1 P1
 Analog Audio Input/Output Interface
 Pin Name Pin Type Function Pin
 SIF0P Analog Input SIF Audio Input Channel 0 Y1
 SIF0M Analog Input Reference Ground for SIF Audio Input Channel 0 Y2
 I2S_OUT_MCK Output Audio Master Clock Output C13
 I2S_OUT_WS Output Word Select Output; 4mA driving strength D13
 I2S_OUT_BCK Output Audio Bit Clock Output C12
 I2S_OUT_SD Output Audio Serial Data Output; 4mA driving strength E12
 I2S_OUT_MUTE/UART1_RX Output Audio Output Mute Control /Universal Asynchronous Receiver
 1
 C10
 SPDIFO Output S/PDIF Audio Output; 4mA driving strength B11
 I2S_IN_WS I/O Word Select Input C14
 I2S_IN_BCK I/O Audio Bit Clock Input D14
 I2S_IN_SD Input Audio Serial Data Input A13
 SPDIFI Input w/ 5V-tolerant S/PDIF Audio Input B13
 AUL0 Analog Input Audio Line Input Left Channel 0 J4
 AUR0 Analog Input Audio Line Input Right Channel 0 J5
 AUL1 Analog Input Audio Line Input Left Channel 1 K4
 AUR1 Analog Input Audio Line Input Right Channel 1 K5
 AUL2 Analog Input Audio Line Input Left Channel 2 L6

AUR2 Analog Input Audio Line Input Right Channel 2 L4
 Pin Name Pin Type Function Pin
 AUL3 Analog Input Audio Line Input Left Channel 3 L5
 AUR3 Analog Input Audio Line Input Right Channel 3 M6
 AUL4 Analog Input Audio Line Input Left Channel 4 M5
 AUR4 Analog Input Audio Line Input Right Channel 4 N6
 AUL5 Analog Input Audio Line Input Left Channel 5 N4
 AUR5 Analog Input Audio Line Input Right Channel 5 N5
 AUCOM Analog Input Reference Ground for Audio Line Input M4
 AUVRM Analog Output Negative Reference Voltage for Audio ADC R4
 AUVRP Analog Output Positive Reference Voltage for Audio ADC P4
 AUVAG Analog Output Reference Voltage for Audio Common Mode P5
 AUOUTL2 Analog Output Main Audio Output Left Channel 2 W1
 AUOUTR2 Analog Output Main Audio Output Right Channel 2 V1
 AUOUTL1 Analog Output Main Audio Output Left Channel 1 W2
 AUOUTR1 Analog Output Main Audio Output Right Channel 1 V2
 AUOUTL0 Analog Output Main Audio Output Left Channel 0 V3
 AUOUTR0 Analog Output Main Audio Output Right Channel 0 U3
 TS Input Interface
 Pin Name Pin Type Function Pin
 TS0CLK Input w/ 5V-tolerant TS Clock T5
 TS0DATA[7:0] Input w/ 5V-tolerant TS Data in Parallel; LSB (bit 0) is for serial TS data U5, V5,
 W5, Y5, U4, V4, W4, Y4
 TS0VALID Input w/ 5V-tolerant TS Data Valid T4
 TS0SYNC Input w/ 5V-tolerant TS Sync-Byte Indicator R5
 TS1CLK Input w/ 5V-tolerant 2nd TS Clock H16
 TS1DATA Input w/ 5V-tolerant 2nd TS Data in Parallel J17
 TS1VALID Input w/ 5V-tolerant 2nd TS Data Valid J16
 TS1SYNC Input w/ 5V-tolerant 2nd TS Sync-Byte Indicator H17
 DVI/HDMI Interface
 Pin Name Pin Type Function Pin
 RXACKN DVI/HDMI Input Negative DVI/HDMI Input for A Link Clock Channel E1
 RXACKP DVI/HDMI Input Positive DVI/HDMI Input for A Link Clock Channel E2
 RXA0N DVI/HDMI Input Negative DVI/HDMI Input for A Link Data Channel 0 F1
 Pin Name Pin Type Function Pin
 RXA0P DVI/HDMI Input Positive DVI/HDMI Input for A Link Data Channel 0 F2
 RXA1N DVI/HDMI Input Negative DVI/HDMI Input for A Link Data Channel 1 G1
 RXA1P DVI/HDMI Input Positive DVI/HDMI Input for A Link Data Channel 1 G2
 RXA2N DVI/HDMI Input Negative DVI/HDMI Input for A Link Data Channel 2 H1
 RXA2P DVI/HDMI Input Positive DVI/HDMI Input for A Link Data Channel 2 H2
 RXBCKN DVI/HDMI Input Negative DVI/HDMI Input for B Link Clock Channel A1
 RXBCKP DVI/HDMI Input Positive DVI/HDMI Input for B Link Clock Channel A2
 RXB0N DVI/HDMI Input Negative DVI/HDMI Input for B Link Data Channel 0 B1
 RXB0P DVI/HDMI Input Positive DVI/HDMI Input for B Link Data Channel 0 B2
 RXB1N DVI/HDMI Input Negative DVI/HDMI Input for B Link Data Channel 1 C1
 RXB1P DVI/HDMI Input Positive DVI/HDMI Input for B Link Data Channel 1 C2
 RXB2N DVI/HDMI Input Negative DVI/HDMI Input for B Link Data Channel 2 D1
 RXB2P DVI/HDMI Input Positive DVI/HDMI Input for B Link Data Channel 2 D2
 RXCCKN DVI/HDMI Input Negative DVI/HDMI Input for C Link Clock Channel Y8
 RXCCKP DVI/HDMI Input Positive DVI/HDMI Input for C Link Clock Channel W8
 RXC0N DVI/HDMI Input Negative DVI/HDMI Input for C Link Data Channel 0 Y9
 RXC0P DVI/HDMI Input Positive DVI/HDMI Input for C Link Data Channel 0 W9
 RXC1N DVI/HDMI Input Negative DVI/HDMI Input for C Link Data Channel 1 Y10
 RXC1P DVI/HDMI Input Positive DVI/HDMI Input for C Link Data Channel 1 W10
 RXC2N DVI/HDMI Input Negative DVI/HDMI Input for C Link Data Channel 2 Y11
 RXC2P DVI/HDMI Input Positive DVI/HDMI Input for C Link Data Channel 2 W11
 LVDS Interface
 Pin Name Pin Type Function Pin
 LVA0M Output LVDS A-Link Channel 0 Negative Data Output Y17
 LVA0P Output LVDS A-Link Channel 0 Positive Data Output W17

LVA1M Output LVDS A-Link Channel 1 Negative Data Output V17
 LVA1P Output LVDS A-Link Channel 1 Positive Data Output Y16
 LVA2M Output LVDS A-Link Channel 2 Negative Data Output W16
 LVA2P Output LVDS A-Link Channel 2 Positive Data Output V16
 LVA3M Output LVDS A-Link Channel 3 Negative Data Output V15
 LVA3P Output LVDS A-Link Channel 3 Positive Data Output Y14
 LVA4M Output LVDS A-Link Channel 4 Negative Data Output W14
 LVA4P Output LVDS A-Link Channel 4 Positive Data Output V14
 LVACKM Output LVDS A-Link Negative Clock Output Y15
 Pin Name Pin Type Function Pin
 LVACKP Output LVDS A-Link Positive Clock Output W15
 LVB0M Output LVDS B-Link Channel 0 Negative Data Output U20
 LVB0P Output LVDS B-Link Channel 0 Positive Data Output U19
 LVB1M Output LVDS B-Link Channel 1 Negative Data Output U18
 LVB1P Output LVDS B-Link Channel 1 Positive Data Output V20
 LVB2M Output LVDS B-Link Channel 2 Negative Data Output Y20
 LVB2P Output LVDS B-Link Channel 2 Positive Data Output W20
 LVB3M Output LVDS B-Link Channel 3 Negative Data Output V19
 LVB3P Output LVDS B-Link Channel 3 Positive Data Output Y18
 LVB4M Output LVDS B-Link Channel 4 Negative Data Output W18
 LVB4P Output LVDS B-Link Channel 4 Positive Data Output V18
 LVBCKM Output LVDS B-Link Negative Clock Output Y19
 LVBCKP Output LVDS B-Link Positive Clock Output W19
 M-Link Interface
 Pin Name Pin Type Function Pin
 MLINKB_TXP Output M-Link Positive Data Transmitter for B-Link T20
 MLINKB_TXN Output M-Link Negative Data Transmitter for B-Link T19
 MLINKB_RXP Input M-Link Positive Data Receiver for B-Link R20
 MLINKB_RXN Input M-Link Negative Data Receiver for B-Link R19
 MLINKA_RX0P Input M-Link Positive Data Receiver 0 for A-Link N20
 MLINKA_RX0N Input M-Link Negative Data Receiver 0 for A-Link N19
 MLINKA_RX1P Input M-Link Positive Data Receiver 1 for A-Link P20
 MLINKA_RX1N Input M-Link Negative Data Receiver 1 for A-Link P19
 Serial Flash Interface
 Pin Name Pin Type Function Pin
 SCK Output SPI Flash Serial Clock V12
 SDI Output SPI Flash Serial Data Input Y13
 SDO Input w/ 5V-tolerant SPI Flash Serial Data Output W13
 SCZ Output SPI Flash Chip select V13
 IRIN Input w/ 5V-tolerant IR Receiver Input C4
 Parallel Flash Interface
 Pin Name Pin Type Function Pin
 PF_WEZ Output Parallel Flash Write Enable; active low R12
 PF_CE0Z Output Parallel Flash Chip Enable 0; active low T12
 PF_CE1Z Output NAND Flash Command Latch Enable
 NOR Flash Chip enable 1; active low U14
 PF_ALE Output Parallel Flash Address Latch Enable; active high T13
 PF_OEZ Output NAND Flash Read Enable; NOR Flash Output
 Enable; active low T14
 F_RBZ Input NAND Flash Ready/Busy; active low
 Not used by NOR Flash U12
 PF_AD[15] Output NAND Flash Write Protect; active low
 Bit[15] of NOR Flash Address/Data Bus U13
 PF_AD[14:0] Output Parallel Flash Address/Data Bus; Bit[14:8] not
 used by NAND Flash T7, U10, W7, T6, V9, Y6, V10, V11, U11, T8, R10, P18, P17, N18,N17
 PF_D[7:0] Output NOR Flash Address/Data Bus for High Byte in
 16-bit Mode V7, U8, V8, U6, V6, M16, M17, N16
 GPIO Interface
 Pin Name Pin Type Function Pin
 GPIO[140:130] I/O w/ 5V-tolerant General Purpose Input/Output; 4mA driving strength E5, E6, D6,

C6, D7, C7, B7, R15, R16, R17, T18
 GPIO[105:90] I/O General Purpose Input/Output; 4mA driving strength D8, B8, D9, B9,
 E10, B14, B10, E11, C11, A11, A14, D15, C15, B15, D12, B12
 GPIO[89:88] I/O General Purpose Input/Output; 4mA driving strength A15, A12
 UART1_TX/ GPIO87 I/O w/ 5V-tolerant Universal Asynchronous Transmitter 1 General Purpose
 Input/Output; 4mA driving strength C8
 UART1_RX/ GPIO86 I/O w/ 5V-tolerant Universal Asynchronous Receiver 1 / General Purpose
 Input/Output; 4mA driving strength A8
 UART2_TX/ GPIO85 I/O w/ 5V-tolerant Universal Asynchronous Transmitter 2 / General Purpose
 Input/Output; 4mA driving strength C9
 Pin Name Pin Type Function Pin
 UART2_RX/ GPIO84 I/O w/ 5V-tolerant Universal Asynchronous Receiver 2 / General Purpose
 Input/Output; 4mA driving strength A9
 GPIO79/ UART1_TX I/O w/ 5V-tolerant General Purpose Input/Output; 4mA driving strength /
 Universal Asynchronous Transmitter 1 D10
 I2S_IN_BCK/ GPIO68 I/O Audio Bit Clock Input / General Purpose Input/Output; 4mA driving
 strength D14
 I2S_IN_WS/ GPIO67 I/O Word Select Input / General Purpose Input/Output; 4mA driving strength
 C14
 GPIO[62:51] I/O w/ 5V-tolerant General Purpose Input/Output; 4mA driving strength K16, K17, L16,
 L17, M16, M17, N16, N17, N18, P16, P17, P18
 GPIO[44:20] I/O w/ 5V-tolerant General Purpose Input/Output; 4mA driving strength R11, T10,
 T9, R10, R9, T8, U11, V11, W7, Y7, T7, U10, V10. W6, Y6, R7, T6, U9, V9, U7, V7, U8, V8, U6, V6
 PWM3 Output Pulse Width Modulation Output; 4mA driving strength T16
 PWM2 Output Pulse Width Modulation Output; 4mA driving strength U16
 PWM1 Output Pulse Width Modulation Output; 4mA driving strength T15
 PWM0 Output Pulse Width Modulation Output; 4mA driving strength U15
 SAR3 Analog Input SAR Low Speed ADC Input 3;
 General Purpose Input/Output B4
 SAR2 Analog Input SAR Low Speed ADC Input 2;
 General Purpose Input/Output A4
 SAR1 Analog Input SAR Low Speed ADC Input 1; General Purpose Input/Output A5
 SAR0 Analog Input SAR Low Speed ADC Input 0;
 General Purpose Input/Output B5
 DRAM Interface
 Pin Name Pin Type Function Pin
 MVREF Input Reference Voltage for DDR SDRAM Interface F15
 A_MADR[12:0] Output DRAM Memory Address M18, A16, L20, M20,
 B16, M19, C16, L18, A17, L19, B17, K19, C17
 A_BADR[1:0] Output DRAM Memory Bank Address J20, K20
 A_MCLKE Output DRAM Memory Clock Enable J19
 A_ODT I/O On-Die Termination E17
 A_WEZ Output Write Enable; active low J18
 A_RASZ Output Row Address Strobe; active low D17
 A_CASZ Output Column Address Strobe; active low D16
 B_MCLK Output DRAM Memory Positive Differential Clock A19
 B_MCLKZ Output DRAM Memory Negative Differential Clock A18
 B_DDR2_DQM[1:0] Output Data Mask for Low Byte; active high F18, E20
 B_DDR2_DQS[1:0] I/O Data Strobe D20, E19
 B_DDR2_DQSB[1:0] I/O Data Strobe Inverse D19, E18
 B_MDAT[15:0] I/O DRAM Memory Data Bus D18, F19, C18, G18,
 G19, C19, F20, C20, B20, G20, A20, H20, H19, B18, H18, B19
 USB Interface
 Pin Name Pin Type Function Pin
 USB_DP Analog I/O USB Non Inverting Data Input/Output B6
 USB_DM Analog I/O USB Inverting Data Input/Output A6
 UART Interface
 Pin Name Pin Type Function Pin
 UART1_RX/ GPIO86 Input w/5V-tolerant Universal Asynchronous Receiver 1 /
 General Purpose Input/Output; 4mA driving strength A8

I2S_OUT_MUTE/ UART1_RX Output Audio Output Mute Control /
 Universal Asynchronous Receiver 1 C10
 Pin Name Pin Type Function Pin
 UART1_TX/ GPIO87 GPIO79/ UART1_TX I/O w/5V-tolerant Universal Asynchronous Transmitter 1 /
 General Purpose Input/Output; 4mA driving strength General Purpose Input/Output; 4mA driving
 strength / Universal Asynchronous Transmitter 1 C8 , D10
 UART2_RX UART2_RX/ GPIO84 Input w/5V-tolerant I/O w/ 5V-tolerant Universal Asynchronous
 Receiver 2 Universal Asynchronous Receiver 2 / General Purpose Input/Output; 4mA driving strength
 D11, A9
 UART2_TX UART2_TX/GPIO85 I/O w/5V-tolerant Universal Asynchronous Transmitter 2
 Universal Asynchronous Transmitter 2 / General Purpose Input/Output; 4mA driving strength
 A10 ,C9

Misc. Interface

Pin Name Pin Type Function Pin
 DDCDA_DA I/O w/ 5V-tolerant HDCP Serial Bus Data / DDC Data of DVI/HDMI Port A G3
 DDCDA_CK Input w/ 5V-tolerant HDCP Serial Bus Clock / DDC Clock of DVI/HDMI Port A G4
 DDCDB_DA I/O w/ 5V-tolerant HDCP Serial Bus Data / DDC Data of DVI/HDMI Port B D3
 DDCDB_CK Input w/ 5V-tolerant HDCP Serial Bus Clock / DDC Clock of DVI/HDMI Port B E3
 DDCDC_DA I/O w/ 5V-tolerant HDCP Serial Bus Data / DDC Data of DVI/HDMI Port C R14
 DDCDC_CK Input w/ 5V-tolerant HDCP Serial Bus Clock / DDC Clock of DVI/HDMI Port C R13
 HOTPLUGA I/O w/ 5V-tolerant Hot-plug control for DVI/HDMI Port A F3
 HOTPLUGB I/O w/ 5V-tolerant Hot-plug control for DVI/HDMI Port B C3
 HOTPLUGC I/O w/ 5V-tolerant Hot-plug control for DVI/HDMI Port C P14
 DDCA_DA I/O w/ 5V-tolerant DDC Data for Analog port F5
 DDCA_CK I/O w/ 5V-tolerant DDC Clock for Analog port F6
 DDCR_DA I/O w/ 5V-tolerant DDC Data for ROM U17
 DDCR_CK I/O w/ 5V-tolerant DDC Clock for ROM T17
 DDCR_DA2 I/O w/ 5V-tolerant DDC Data for ROM D11
 DDCR_CK2 I/O w/ 5V-tolerant DDC Clock for ROM A10
 XIN Crystal Oscillator Input Crystal Oscillator Input B3
 XOUT Crystal Oscillator Output Crystal Oscillator Output A3
 XTAL_OUT Output Clock Output for MStar Companion Chip R18
 CEC I/O Consumer Electronics Control E4
 HWRESET Schmitt Trigger Input w/ 5V-tolerant Hardware Reset; active high D5

Pin Name Pin Type Function Pin

AVDD_AU 3.3V Power Audio Power P6, R6
 AVDD_LPLL 3.3V Power LPLL Power N15, P15
 AVDD_MPLL 3.3V Power MPLL Power E7, E8
 AVDD_MEMPLL 3.3V Power PLL Power H14
 AVDD_33 3.3V Power ADC Power F7, F8, H6, H8, J8, K8, L8,
 M8, N8
 AVDD_DM 3.3V Power DM Power L13, M13
 AVDD_USB 3.3V Power USB Power F14, G14
 VDDP 3.3V Power Digital Input/Output Power F12, F13, F16, F17, J13, K13,
 N9, N10
 AVDD_MLINK 1.26V Power M-link Power M15
 AVDD_PLLA_MLINK 1.26V Power M-link PLLA Power K15
 AVDD_PLLB_MLINK 1.26V Power M-link PLLB Power L15
 AVDD_DDR 1.8V Power DDR2 Power E15, E16, G15, G16, G17
 VDDC 1.26V Power Digital Core Power E9, F9, F10, F11, H9, H10,
 H11, H12, H13, N11, N12,
 N13, P10, P11
 GND Ground Ground A7, C5, D4, E13, E14, H15,
 J9, J10, J11, J12, J15, K9,
 K10, K11, K12, L9, L10, L11,
 L12, M9, M10, M11, M12

No Connects

Pin Name Pin Type Function Pin

NC No connect. K18, R8, T11, W12, Y12

I118 DDR2

The EM68B16C is a high-speed CMOS Double-Data-Rate-Two (DDR2), synchronous dynamic random-access memory (SDRAM) containing 512

Mbits in a 16-bit wide data I/Os. It is internally configured as a quad bank DRAM, 4 banks x 8Mb addresses x 16 I/Os. The device is designed to comply with DDR2 DRAM key features such as posted CAS# with additive latency, Write latency = Read latency -1, Off-Chip Driver (OCD) impedance adjustment, and On Die Termination(ODT). All of the control and address inputs are synchronized with a pair of externally supplied differential clocks. Inputs are latched at the cross point of differential clocks (CK rising and CK# falling)

All I/Os are synchronized with a pair of bidirectional strobes (DQS and DQS#) in a source synchronous fashion. The address bus is used to convey row, column, and bank address information in RAS #, CAS# multiplexing style. Accesses begin with the registration of a Bank Activate command, and then

it is followed by a Read or Write command. Read and write accesses to the DDR2 SDRAM are 4 or 8-bit burst oriented; accesses start at a selected

location and continue for a programmed number of locations in a programmed sequence. Operating the four memory banks in an interleaved fashion allows random access operation to occur at a higher rate than is possible with standard DRAMs. An auto precharge function may be enabled to provide a self-timed row precharge that is initiated at the end of the burst sequence. A sequential and gapless data rate is possible depending on burst length, CAS# latency, and speed grade of the device.

I109 Tuner

The Antenna receive the TV signal and modulate it to the CVBS signal and ATSC signal which can be recognized By the decoder and MTS audio signal output to the sound multiplexing decoder portion of IC MSD3003

I130 TPA3113D2 AUDIO AMP

The TPA3113D2 is a 6-W (Per channel) efficient, Class-D audio power amplifier for driving bridged-tier stereo speakers. Advanced EMI Suppression Technology enables the use of inexpensive ferrite bead filters at the output while meeting EMC requirements. SpeakerGuaud speaker protection circuitry includes an adjustable power limiter and a DC detection circuit. The adjustable power limiter allows the user to set a “ virtual “ voltage rail lower than the chip supply to limit the amount of current through the speaker. The DC detect circuit measures the frequency and amplitude of the PWM signal and shuts off the output stage if the input capacitors are damaged or shorts exist on the inputs.

The output are also fully protected against short to GND, VCC, and output to output. The short circuit protection and thermal protection includes an auto recovery feature.

I131 TPA6113A2

The TPA6113A2 is a stereo audio power amplifier packaged in an 8-pin SOIC package capable of delivering 40mW of continuous RMS power per channel into 16- Ω loads. Amplifier gain is externally configured by means of two resistors per input channel and does not require external compensation for settings of 0 to 20 dB.

I112 MSD809

The MSD1501 is a DTV receiver, which contains a digital receiver compatible with ATSC 8-VSB mode for terrestrial broadcasting and open cable (SCTE DVS-031) which is in compliant with 64-QAM and 256-QAM modes for digital cable appliances.

It achieves extremely high performance employing direct IF sampling architecture, robust synchronization, and robust channel equalization. It contains a 12-bit A/D converter and a PWM generator for automatic gain control. A host interface with an I2C bus is also included to control the behavior of the MSD1501.

5. Adjusting Procedure

5.1. ADJUSTMENT CONDITIONS AND PRECAUTIONS

1. Approximately 30 minutes should be allowed for warm up before proceeding.
2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.
3. ESD protection is needed before adjustment.

5.2. MAIN ADJUSTMENTS

NO.	FUNCTION	DESIGNATION
1.	EEPROM Initial	Function Key
2.	Adjust color temperature	Function Key

5.3. ALIGNMENT PROCEDURES

Adjustment Conditions and Precautions:

(A). Power supply voltage: AC 110V \pm 10% 50 Hz \pm 5%.

(B). Warm up time:

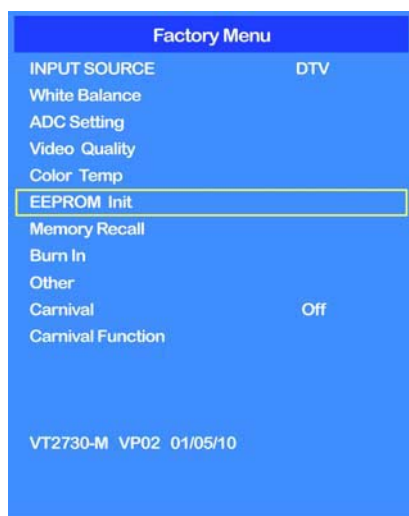
The display must be power ON for at least 30 minutes at full white pattern before starting alignments.

This is especially critical in color temperature and white balance adjustments.

(C). Video : reference the front detail specifications.

1. Eeprom Initial:

Press "INPUT" , "▲" KEY, "POWER" key go to factory mode.



2. Adjust color temperature

A. Enter to the factory mode, Source select "D_Sub" figure 2, Use 19200x1080@60Hz the pattern is "5 block" figure 1, then move the cursor to the White Balance figure 3. Press "▶" key. That will do auto white balance.

B. After auto white balance, switch to the full white pattern then check the color temperature.

WARM	(5400°K):	x=0.332 \pm 0.03	y=0.350 \pm 0.03
NORMAL	(6500°K):	x=0.313 \pm 0.03	y=0.329 \pm 0.03
COOL	(9300°K):	x=0.283 \pm 0.03	y=0.297 \pm 0.03

C. Enter to the factory mode, Source select "YPbPr", Use NTSC Color Bar (FLUKE 54200) Figure 4, Set Color bar to 100 IRE then move the cursor to the White Balance figure 5. Press "▶" Key figure 6. That will do auto white balance. Finally change 16 gray scale must be clear in each gray.

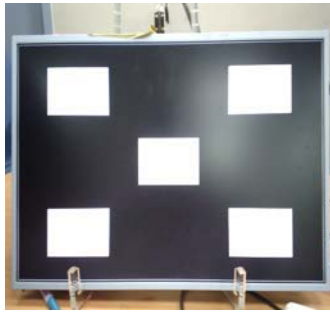


figure 1



figure 2



figure 3



figure 4



figure 5



figure 6

3. Power Consumption Check (VGA MODE)

- A. TIMING: 1920 x 1080@60Hz
- B. Pattern: 1010UPRIGHTNESS PATTERN
- C. BRIGHTNESS=MAX, CONTRAST=MAX.
- D. The power that each MODE consumed is shown in Chart 1.

MODE	MAX POWER COMSUMED	POWER LED COLOR
NORMAL	75W(max)	BLUE
Stand-by	1W (max)	ORANGE

Chart 1

4. Check the position of the picture displayed and phase auto adjusting (VGA MODE).

Depend on the TIMING of TIMING TABLE (TABLE 4) to switch MODE in order, stay about 10 seconds each MODE, it can changed and stored automatically each MODE. We can't switch over to the next MODE until AUTO ADJUST disappears.

5. HDMI MODE FUNCTION TEST

A.DVI MODE: Depend on the TIMING of TIMING TABLE (TABLE 3) to check MODE in order.

B.HDMI MODE: make sure the 480i, 480p, 720p, 1080i,1080p TIMING is right.

6. OSD FUNCTION TEST

Time:1920*1080@60Hz

Pattern: 16*12 pane

Make sure that Each FUNCTION has one right action.

7. DTV FUNCTION TEST

Both NTSC and ATSC system were mixed together. At this point in tuner to the joints on the need for 'AIR NTSC and ATSC 2 both systems were mixed with the signal

Both CATV and DIGITAL CABLE two systems are mixed together. At this point in tuner to the need for a joint 'CATV and DIGITAL CABLE two systems are mixed in a the signal

8. YPbPr, S-VIDEO, AV, TV, DTV'S , HDMI, USBFUNCTION TEST
- A. Input YPbPr, S-VIDEO, AV , TV, DTV'S signal and check.
 - B. Input USA air channel (TABLE 1) and USA CATV channel for TV channel.
Under YPbPr , HDMI MODE, Make sure the 408i, 480P, 720P, 1080i,1080p is right.
Under USB to display “ JPEG, BMP” format.
9. AUDIO FUNCTION TEST
- A. Audio input includes PC AUDIO IN, S-VIDEO/AV AUDIO IN and YPbPr/DVI AUDIO IN.
 - B. Under PC MODE, input PC AUDIO signal, checks whether the action of AUDIO IN is right.
 - C. Under S-VIDEO/AV MODE, input L/R AUDIO signal, checks whether the action of AUDIO IN is right.
 - D. Under YPbPr MODE, input L/R AUDIO signal, checks whether the action of AUDIO IN is right.Under HDMI MODE, checks whether the action of AUDIO IN is right Under TV MODE, checks whether the action of AUDIO IN is right.
 - E. In DTV mode, the input signal ATSC, confirmed AUDIO LANGUAGE and the normal movements PARENT
- 10.Under PC MODE, input PC AUDIO signal, determines whether the action of INT SPEAKER output is right. Meets earphone with the EARPHONE, Determined whether the action of EARPHONE output is normal.
- 11.DDC EDID confirm
- VGA EDID confirm
 - By P106 VGA CONNECTOR DOWNLOAD EDID confirm whether normal or not
 - HDMI EDID confirm
 - By P109, P110, P111 HDMI CONNECTORS DOWNLOAD EDID confirm whether normal or not
- 12.All Modes Reset
- After final QC step, we must to erase all saved changes again and restore the factory defaults.
 - You should do “memory recall ” again.
 - Turn off the LCD TV by pressing “Power” button
- 13.BURN IN Mode access methods
- Key Pad followed by pressing the "MENU" + "ENTER" 2 KEY, entered BURN IN mode
- 14.DCR function confirm In all source. (VT2730-M model only)
- A. DCR turn ON.
 - B. Input full white pattern then measure the luminance. For example Value A
 - C. Input full dark pattern the measure the luminance. For example Value B
 - D. These two value ratio must be more than 100000. (A/B).

TV Frequency Table:
U.S.A Channel (TABLE 1)
VIF 45.75 MHz, SIF 41.25 MHz

(Unit : MHz)

Ch.	Freq.range	fp (picture)	fs (sound)	fosc	Ch.	Freq.range	fp (picture)	fs (sound)	fosc
2	54 – 60	55.25	59.75	101.00	43	644 – 650	645.25	649.75	691.00
3	60 – 66	61.25	65.75	107.00	44	650 – 656	651.25	655.75	697.00
4	66 – 72	67.25	71.75	113.00	45	656 – 662	657.25	661.75	703.00
5	76 – 82	77.25	81.75	123.00	46	662 – 668	663.25	667.75	709.00
6	82 – 88	83.25	87.75	129.00	47	668 – 674	669.25	673.75	715.00
7	174 – 180	175.25	179.75	221.00	48	674 – 680	675.25	679.75	721.00
8	180 – 186	181.25	185.75	227.00	49	680 – 686	681.25	685.75	727.00
9	186 – 192	187.25	191.75	233.00	50	686 – 692	687.25	691.75	733.00
10	192 – 198	193.25	197.75	239.00	51	692 – 698	693.25	697.75	739.00
11	198 – 204	199.25	203.75	245.00	52	698 – 704	699.25	703.75	745.00
12	204 – 210	205.25	209.75	251.00	53	704 – 710	705.25	709.75	751.00
13	210 – 216	211.25	215.75	257.00	54	710 – 716	711.25	715.75	757.00
14	470 – 476	471.25	475.75	517.00	55	716 – 722	717.25	721.75	763.00
15	476 – 482	477.25	481.75	523.00	56	722 – 728	723.25	727.75	769.00
16	482 – 488	483.25	487.75	529.00	57	728 – 734	729.25	733.75	775.00
17	488 – 494	489.25	493.75	535.00	58	734 – 740	735.25	739.75	781.00
18	494 – 500	495.25	499.75	541.00	59	740 – 746	741.25	745.75	787.00
19	500 – 506	501.25	505.75	547.00	60	746 – 752	747.25	751.75	793.00
20	506 – 512	507.25	511.75	553.00	61	752 – 758	753.25	757.75	799.00
21	512 – 518	513.25	517.75	559.00	62	758 – 764	759.25	763.75	805.00
22	518 – 524	519.25	523.75	565.00	63	764 – 770	765.25	769.75	811.00
23	524 – 530	525.25	529.75	571.00	64	770 – 776	771.25	775.75	817.00
24	530 – 536	531.25	535.75	577.00	65	776 – 782	777.25	781.75	823.00
25	536 – 542	537.25	541.75	583.00	66	782 – 788	783.25	787.75	829.00
26	542 – 548	543.25	547.75	589.00	67	788 – 794	789.25	793.75	835.00
27	548 – 554	549.25	553.75	595.00	68	794 – 800	795.25	799.75	841.00
28	554 – 560	555.25	559.75	601.00	69	800 – 806	801.25	805.75	847.00
29	560 – 566	561.25	565.75	607.00					
30	566 – 572	567.25	571.75	613.00					
31	572 – 578	573.25	577.75	619.00					
32	578 – 584	579.25	583.75	625.00					
33	584 – 590	585.25	589.75	631.00					
34	590 – 596	591.25	595.75	637.00					
35	596 – 602	597.25	601.75	643.00					
36	602 – 608	603.25	607.75	649.00					
37	608 – 614	609.25	613.75	655.00					
38	614 – 620	615.25	619.75	661.00					
39	620 – 626	621.25	625.75	667.00					
40	626 – 632	627.25	631.75	673.00					
41	632 – 638	633.25	637.75	679.00					
42	639 – 644	639.25	643.75	685.00					

U.S.A. CATV (TABLE 2)
VIF 45.75 MHz, SIF 41.25 MHz

(Unit : MHz)

Ch.	Freq.range	fp (picture)	fs (sound)	fosc	Ch.	Freq.range	fp (picture)	fs (sound)	fosc		
2	2	54 – 60	55.25	59.75	101.00	JJ	46	354 – 360	355.25	359.75	401.00
3	3	60 – 66	61.25	65.75	107.00	KK	47	360 – 366	361.25	365.75	407.00
4	4	66 – 72	67.25	71.75	113.00	LL	48	366 – 372	367.25	371.75	413.00
5A	1	72 – 78	73.25	77.75	119.00	MM	49	372 – 378	373.25	377.75	419.00
5	5	76 – 82	77.25	81.75	123.00	NN	50	378 – 384	379.25	383.75	425.00
6	6	82 – 88	83.25	87.75	129.00	OO	51	384 – 390	385.25	389.75	431.00
A-5	95	90 – 96	91.25	95.75	137.00	PP	52	390 – 396	391.25	395.75	437.00
A-4	96	96 – 102	97.25	101.75	143.00	QQ	53	396 – 402	397.25	401.75	443.00
A-3	97	102 – 108	103.25	107.75	149.00	RR	54	402 – 408	403.25	407.75	449.00
A-2	98	108 – 114	109.25	113.75	155.00	SS	55	408 – 414	409.25	413.75	455.00
A-1	99	114 – 120	115.25	119.75	161.00	TT	56	414 – 420	415.25	419.75	461.00
A	14	120 – 126	121.25	125.75	167.00	UU	57	420 – 426	421.25	425.75	467.00
B	15	126 – 132	127.25	131.75	173.00	VV	58	426 – 432	427.25	431.75	473.00
C	16	132 – 138	133.25	137.75	179.00	WW	59	432 – 438	433.25	437.75	479.00
D	17	138 – 144	139.25	143.75	185.00	AAA	60	438 – 444	439.25	443.75	485.00
E	18	144 – 150	145.25	149.75	191.00	BBB	61	444 – 450	445.25	449.75	491.00
F	19	150 – 156	151.25	155.75	197.00	CCC	62	450 – 456	451.25	455.75	497.00
G	20	156 – 162	157.25	161.75	203.00	DDD	63	456 – 462	457.25	461.75	503.00
H	21	162 – 168	163.25	167.75	209.00	EEE	64	462 – 468	463.25	467.75	509.00
I	22	168 – 174	169.25	173.75	215.00		65	468 – 474	469.25	473.75	515.00
7	7	174 – 180	175.25	179.75	221.00		66	474 – 480	475.25	479.75	521.00
8	8	180 – 186	181.25	185.75	227.00		67	480 – 486	481.25	485.75	527.00
9	9	186 – 192	187.25	191.75	233.00		68	486 – 492	487.25	491.75	533.00
10	10	192 – 198	193.25	197.75	239.00		69	492 – 498	493.25	497.75	539.00
11	11	198 – 204	199.25	203.75	245.00		70	498 – 504	499.25	503.75	545.00
12	12	204 – 210	205.25	209.75	251.00		71	504 – 510	505.25	509.75	551.00
13	13	210 – 216	211.25	215.75	257.00		72	510 – 516	511.25	515.75	557.00
J	23	216 – 222	217.25	221.75	263.00		73	516 – 522	517.25	521.75	563.00
K	24	222 – 228	223.25	227.75	269.00		74	522 – 528	523.25	527.25	569.00
L	25	228 – 234	229.25	233.75	275.00		75	528 – 534	529.25	533.75	575.00
M	26	234 – 240	235.25	239.75	281.00		76	534 – 540	535.25	539.75	581.00
N	27	240 – 246	241.25	245.75	287.00		77	540 – 546	541.25	545.75	587.00
O	28	246 – 252	247.25	251.75	293.00		78	546 – 552	547.25	551.75	593.00
P	29	252 – 258	253.25	257.75	299.00		79	552 – 558	553.25	557.75	599.00
Q	30	258 – 264	259.25	263.75	305.00		80	558 – 564	559.25	563.75	605.00
R	31	264 – 270	265.25	269.75	311.00		81	564 – 570	565.25	569.75	611.05
S	32	270 – 276	271.25	275.75	317.00		82	570 – 576	571.25	575.75	617.00
T	33	276 – 282	277.25	281.75	323.00		83	576 – 582	577.25	581.75	623.00
U	34	282 – 288	283.25	287.75	329.00		84	582 – 588	583.25	587.75	629.00
V	35	288 – 294	289.25	293.75	335.00		85	588 – 594	589.25	593.75	635.00
W	36	294 – 300	295.25	299.75	341.00		86	594 – 600	595.25	599.75	641.00
AA	37	300 – 306	301.25	305.75	347.00		87	600 – 606	601.25	605.75	647.00
BB	38	306 – 312	307.25	311.75	353.00		88	606 – 612	607.25	611.75	653.00
CC	39	312 – 318	313.25	317.75	359.00		89	612 – 618	613.25	617.75	659.00
DD	40	318 – 324	319.25	323.75	365.00		90	618 – 624	619.25	623.75	665.00
EE	41	324 – 330	325.25	329.75	371.00		91	624 – 630	625.25	629.75	671.00
FF	42	330 – 336	331.25	335.75	377.00		92	630 – 636	631.25	635.75	677.00
GG	43	336 – 342	337.25	341.75	383.00		93	636 – 642	637.25	641.75	693.00
HH	44	342 – 348	343.25	347.75	389.00		94	642 – 648	643.25	647.75	689.00
II	45	348 – 354	349.25	353.75	395.00						

DIGITAL CABLE TV Frequency Table (table 3)

U.S.A Channel Frequency Assignments (Cable)

unit:MHz.

CH NO.	DTV Center Freq	CH NO.	DTV Center Freq	CH NO.	DTV Center Freq
2	57	43	339	84	585
3	63	44	345	85	591
4	69	45	351	86	597
5	79	46	357	87	603
6	85	47	363	88	609
7	177	48	369	89	615
8	183	49	375	90	621
9	189	50	381	91	627
10	195	51	387	92	633
11	201	52	393	93	639
12	207	53	399	94	645
13	213	54	405	95	93
14	223	55	411	96	99
15	129	56	417	97	105
16	135	57	423	98	111
17	141	58	429	99	117
18	147	59	435	100	651
19	153	60	441	101	657
20	159	61	447	102	663
21	165	62	453	103	669
22	171	63	459	104	675
23	219	64	465	105	681
24	225	65	471	106	687
25	231	66	477	107	693
26	237	67	483	108	699
27	243	68	489	109	705
28	249	69	495	110	711
29	255	70	501	111	717
30	261	71	507	112	723
31	267	72	513	113	729
32	273	73	519	114	735
33	279	74	525	115	741
34	285	75	531	116	747
35	291	76	537	117	753
36	297	77	543	118	759
37	303	78	549	119	765
38	309	79	555	120	771
39	315	80	561	121	777
40	321	81	567	122	783
41	327	82	573	123	789
42	333	83	579	124	795

TTV receiving test:
 TV SIGNAL TEST ITEM
 CENTRALISM TRANSMITTING SIGNAL CHECK CONTENT

CHANNEL ORDER	FREQUENCY (MHz)	SET CONTENT			CHECK CONTENT
		PATTERN	SOUND	P/S(dB)	
CHANNEL 2	55.25	MONO SCOPE	SWEEP TONE	-10	ELECTRIC ABNORMITY
CHANNEL 6	83.25	COLOR BAR	400Hz	-10	SOUND
CHANNEL 7	175.25	Full White (100 IRE)	STEREO	-10	SOUND ,PICTURE STEREO FUNCTION
CHANNEL 13	211.25	STAIR	DUAL	-10	SUB FUNCTION
CHANNEL 14	471.25	MULTIBURST	MONO	-16	IMAGE AND SOUND DISTURB
CHANNEL 36	603.25	MULTIBURST	MONO	-10	TEST Close-caption T1 FUNCTION
CHANNEL 69	801.25	MONO SCOPE	MONO(1KHz)	-10	NOISE LIMMITTED SENSITIVITY

TV TEST METHOD

A.CHANNEL2 Examines sound by ear, whether the sound does have mechanical resonance and the electrical unusual sound, and image to sound disturbance.

B.CHANNEL6: Check sound and picture.

C.CHANNEL7: Examines whether the sound does receive the image disturbance, Judgment basis: Whether there is unusual sound, input signal LEVEL<=36dBu,and STEREO SENSITIVITY is normal.

D.CHANNEL13: Under main/sub/main-sub mode, check sub function.

E.CHANNEL14: Examines whether the sound does receive the image disturbance, Judgment basis: Whether there is unusual sound.

F. CHANNEL 36:Check T1 of close-caption. Input signal level<=45dBu.

G.CHANNEL 69: Adjustment attenuator, If the critical point of the change of the image signal to noise ratio is under LEVEL<=60dBu, regards as normally.

PRODUCTS OUTPUT CHECK ITEM.

The same as " CENTRALISM TRANSMITTING SIGNAL CHECK CONTENT"

saturation TEST, inputs the TV signal, the input signal LEVEL establishment most greatly is 90dBu,check whether CONTRAST of the image is normal; Whether appears the disturbance phenomenon.

C.AFT CHECK,

(1) The frequency of the input TV signal is 211.25MHz (CH13), after confirmed the TV set receives this signal, closure radio station; Then set frequency of the TV signal generator to be 212.25MHz, turn on the TV set and check whether the TV set receives the signal of CH13.

(2). The frequency of the input TV signal is 211.25MHz (CH13), after confirmed the TV set receives this signal, closure radio station; Then set frequency of the TV signal generator to be 212.00MHz, turn on the TV set and check whether the TV set receives the signal of CH13.

(3). After all of FUNCTION TEST completed, we must erase all saved changes again and restore the factory defaults.

DTV TEST ITEM

CHANNEL	FREQUENCY	SOUND	dB	PETTEN	CHECK CONTENT
14	471.25MHz	Y	50	Dynamic picture	Picture
36	603.25MHz	Y	50	Color bar	Color
69	801.25MHz	Y	75	Dynamic picture	Sound and Picture

DTV CHECK METHOD

A.CHANNEL14: Check whether there are some pause or the mosaic phenomenon in the picture.

B.CHANNEL36: Check whether the color of the color bar is normal.

C.CHANNEL69: Turn RF attenuator and check the critical point of the change of the image's S/N is under LEVEL<45~85> dBu, regards as normally.

TIMING TABLE (FACTORY PRESET MODE) (table 4)

COMPATIBILITY TABLE

MODE		ASPECT RATIO HANDLING	COMPATIBLE INPUTS				
STANDARD	RESOLUTION	FS*Full-Screen	Composite	SVHS	YPbPr	RGB	HDMI
DOS	720x400 @ 70Hz	1920x 1080	No	No	No	Yes	Yes
VESA	640x480 @ 60Hz	1920x 1080	No	No	No	Yes	Yes
VESA	640x480 @ 75Hz	1920x 1080	No	No	No	Yes	Yes
VESA	800x600 @ 60Hz	1920x 1080	No	No	No	Yes	Yes
VESA	800x600 @ 75Hz	1920x 1080	No	No	No	Yes	Yes
MAC	832x624 @ 75Hz	1920x 1080	No	No	No	Yes	Yes
VESA	1024x768 @ 60Hz	1920x 1080	No	No	No	Yes	Yes
VESA	1024x768 @ 75Hz	1920x 1080	No	No	No	Yes	Yes
VESA	1280x768 @ 60Hz	1920x 1080	No	No	No	Yes	No
VESA	1280x1024@ 60Hz	1920x 1080	No	No	No	Yes	Yes
VESA	1440x900@ 60Hz	1920x 1080	No	No	No	Yes	Yes
VESA	1680x1050@60Hz	1920x1080	NO	NO	NO	Yes	Yes
VESA	1920x1080@60Hz	1920x1080	NO	NO	NO	Yes	Yes
NTSC	480i(60Hz)	1920x 1080	Yes	Yes	Yes	No	Yes
SD	480p(60Hz)	1920x 1080	NO	NO	Yes	No	Yes
HD	720p(60Hz)	1920x 1080	No	No	Yes	No	Yes
HD	1080i (60Hz)	1920x 1080	No	No	Yes	No	Yes
Full HD	1080p (60Hz)	1920x 1080	No	No	Yes	No	Yes

5.4 Firmware Upgrade Procedure

When you receive the returned LCD TV, please check whether the firmware version is the latest. If not, please do the following procedures to upgrade it to the latest version.

5.4.1 Equipment Needed

- VT2730-M LCD TV
- Fixture for Firmware Upgrade
- VGA Cable
- PC (Personal Computer)
- Firmware Upgrade Program
- One additional LCD TV for checking the program execution

5.4.2 Connection PC to the Tv set by the tool as the follow picture (pc1~pc3)

Action: The D_SUB cable must be 15 pin, and the TV set must be AC ON



pc.1



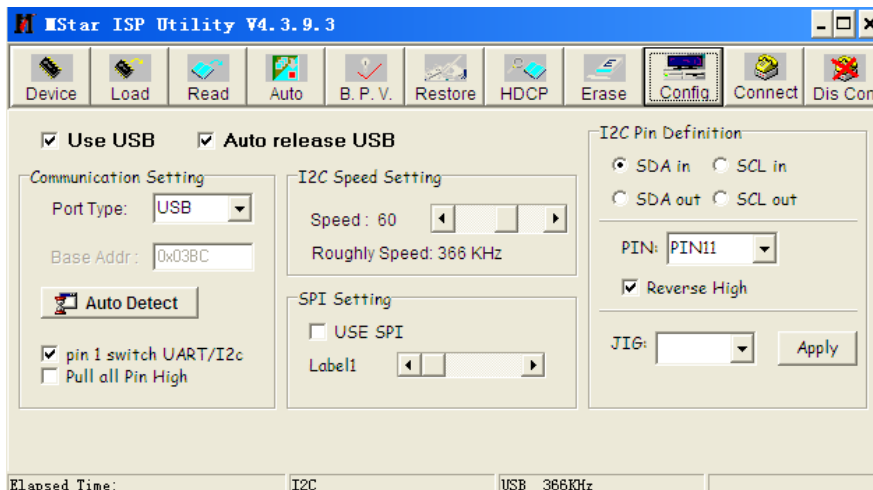
pc 2



pc 3

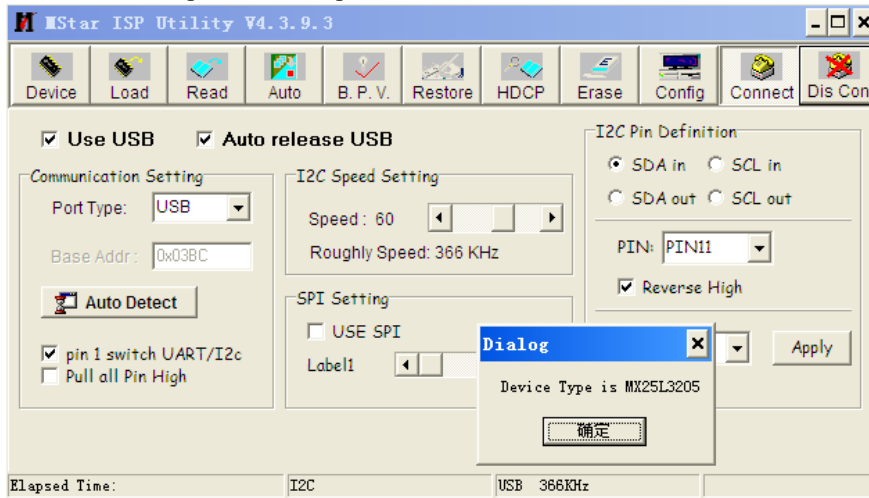
5.4.3 Start the Isp

1. Open the “I.exe”
2. Press the “config” , if the the **ISP board** have been found ,you will see the picture as below.



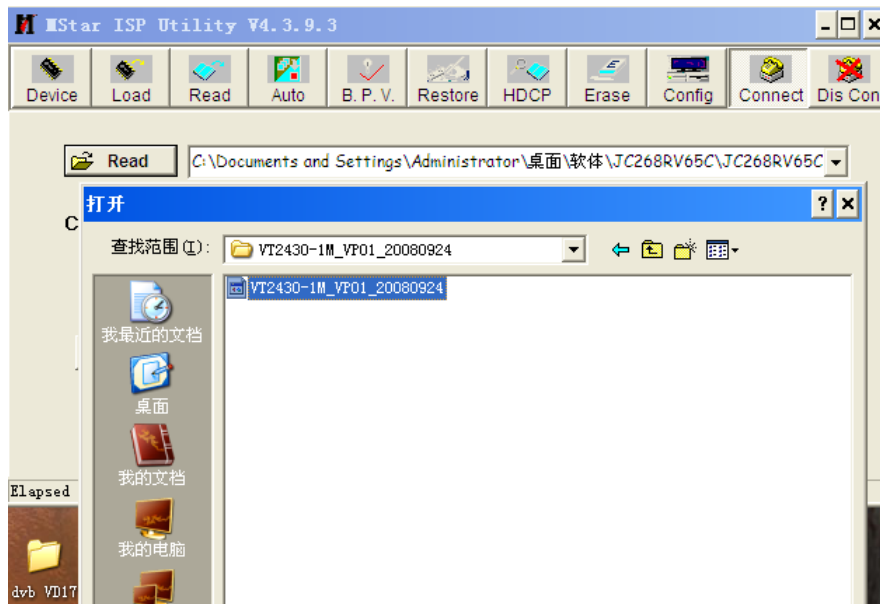
pc.4

- Press the “Connect”, If all the things are ok and ready, it will show the device type as the bellow picture. Than pres “確定”



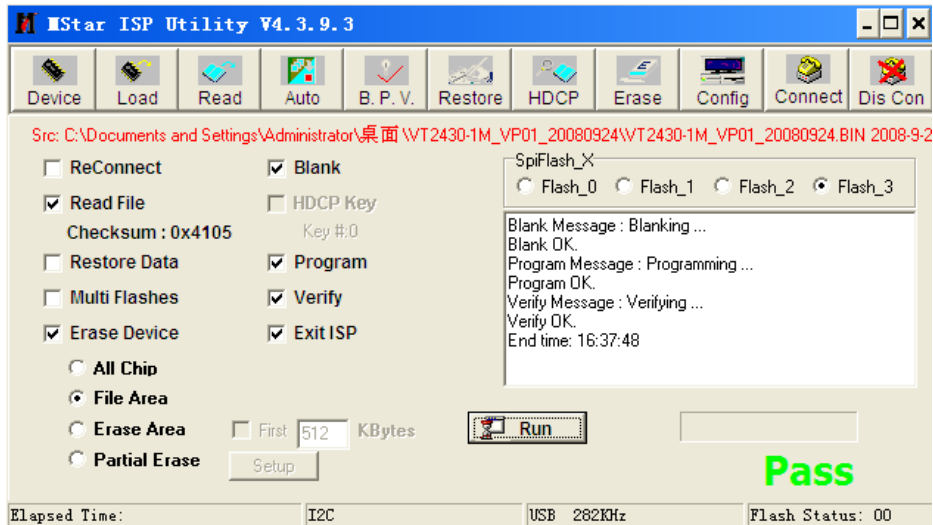
pc.5

- Press “read” and choose the right F/W .



pc.6

5. Press “Auto”, than press “Run”. It will start ISP . When the ISP is ok ,you will see the information as the bellow picture.



pc.7

6. Pull away the AC power Cord and the D-SUB Cable. And start another TV set. When we start another TV set with AC ON, we only need to press the “RUN”

5.4.4 USB update process

Step 1: Turn off AC power.

Step 2: Plug USB device with correct file name (By each models) F/W into socket.

Step 3: Turn on AC power and wait for a moment to update automatically. During updating, you can see LED light to flash.

Step 4. When F/W finish updating process, the TV set turn on automatically and turn off AC power and unplug USB device manually.

5.5 VGA DDC Key In Procedure

Note:

1. Every time after replacing the main board, you have to do the DDC key in.
2. If you find the DDC does not conform to the LCD TV, you have to do the DDC key in.

5.5.1 Equipment Needed

- VT2730-M LCD TV
- DDC Card
- PC
- RS-232 cable
- Barcode Reader
- VGA Cable



VT2730-M LCD TV



DDC Card



PC



RS-232 Cable



VGA Cable



Barcode Reader

5.5.2 Setup Procedure

1. Connect VGA Card and DDC Card with RS-232 cable.



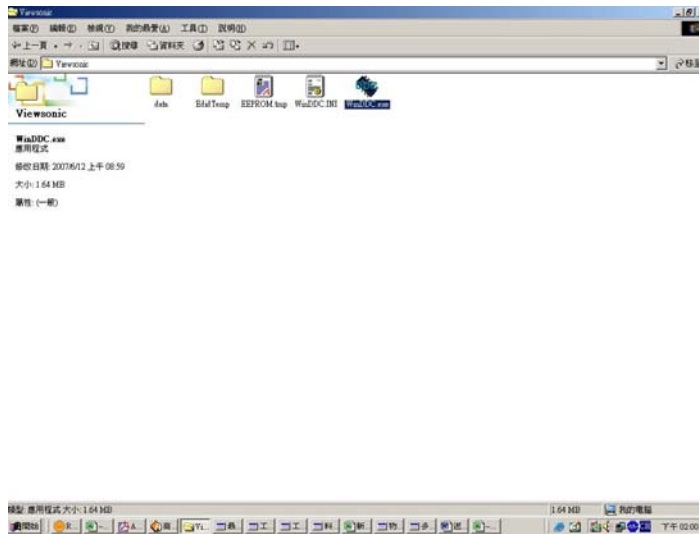
2. Barcode Reader connects with keyboard and PC keyboard port.



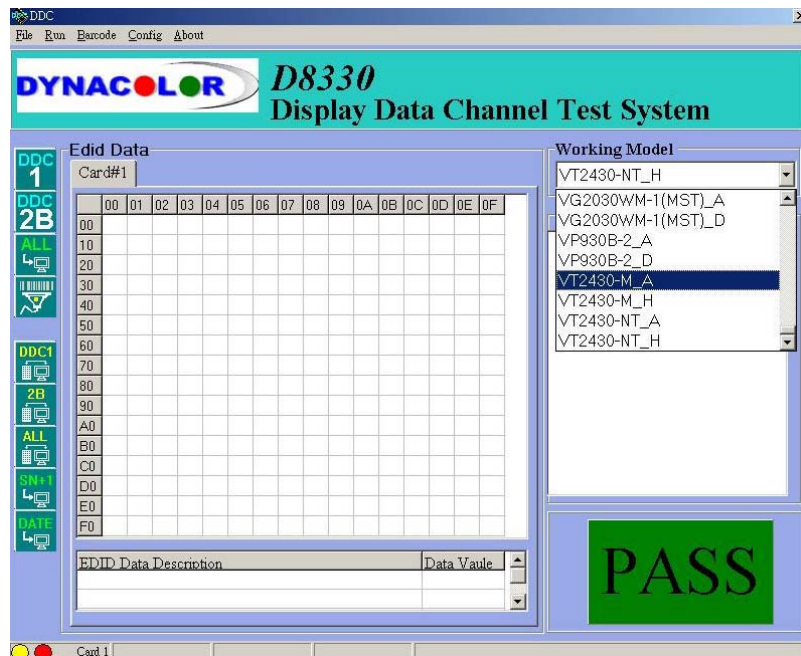
3. Connect DDC Card and VT2730-M LCD TV with VGA Cable.
(when key in DVI DDC information, use VGA transform to DVI port)
4. Connect Power Cord to VT2730-M LCD TV.
5. Press 'MENU' and 'ENTER' at the same time, then go into the BURN IN MODE.

5.5.3 DDC Key In Procedure

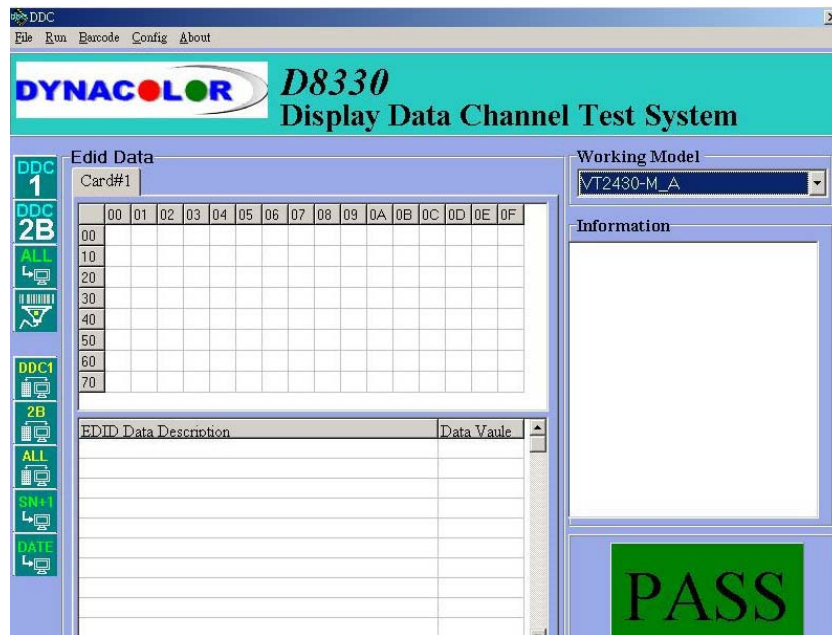
1. run DDC exe



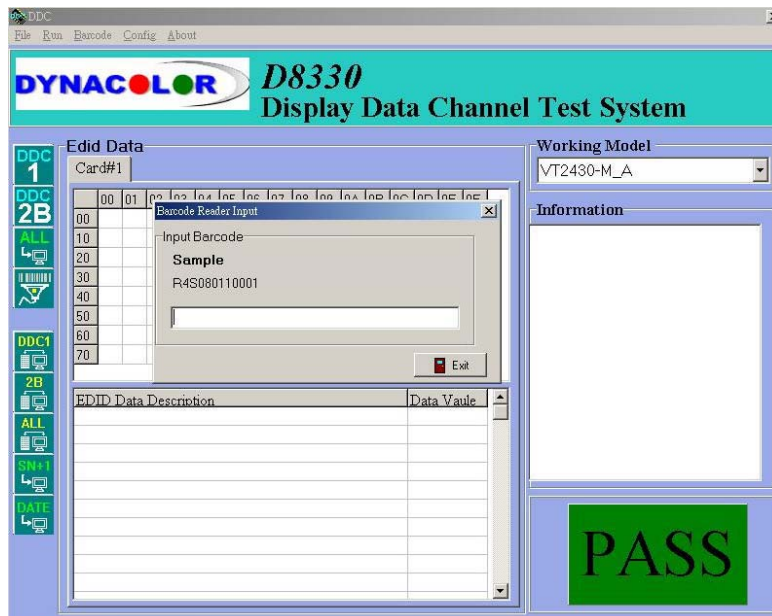
2. Choose model number the

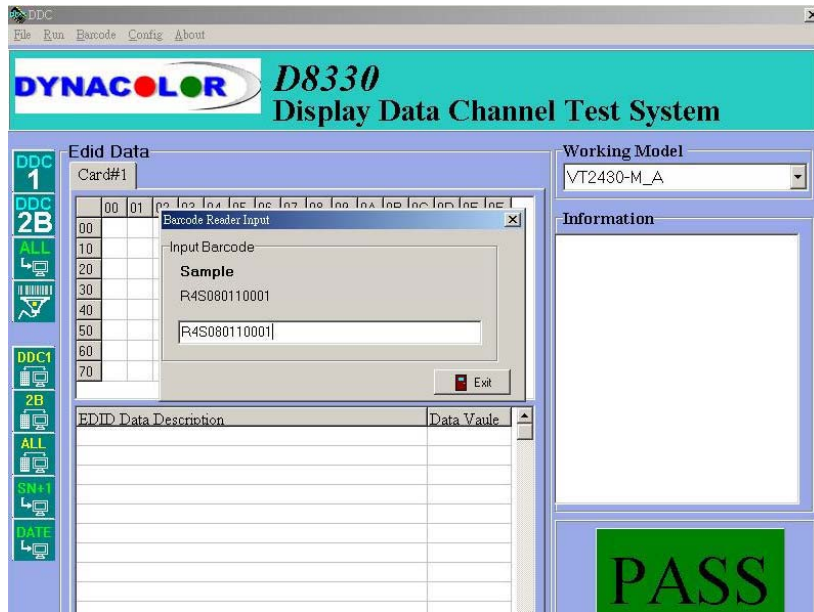


3. Press "ENTER" key.

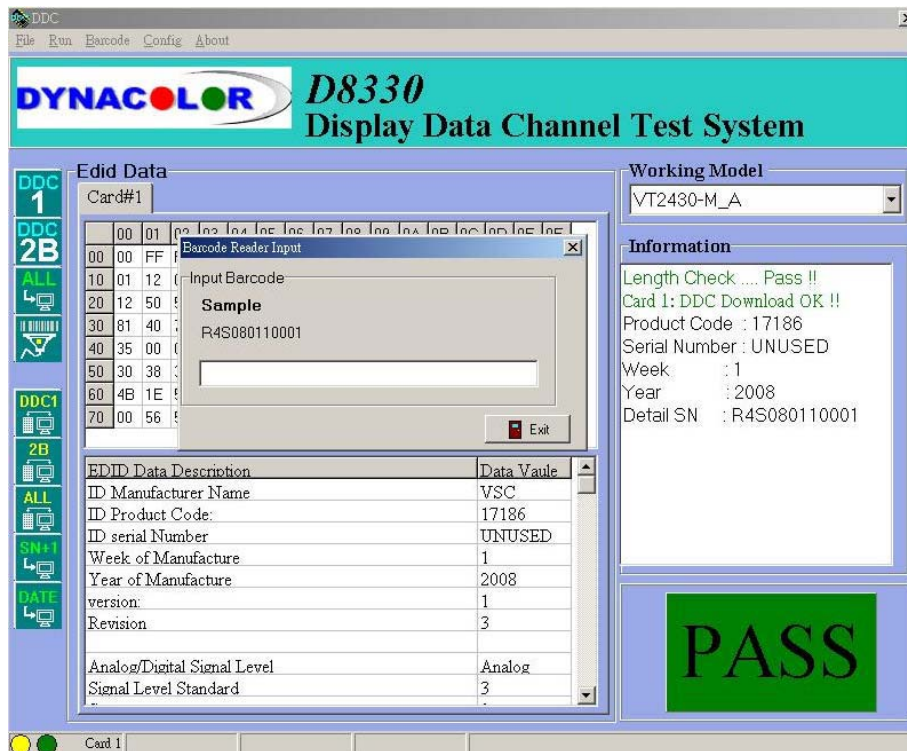


4. Press "F4" key and Input bar code





5. Press “ENTER” key, then the successful picture is as follows. “DDC DOWNLOADED OK!”



6. Exit program.

5.6 HDMI DDC Key In Procedure

There are three EDID files for the different HDMI connectors. So you must be download the different EDID into each HDMI connector.

5.6.1 Equipment Needed

- VT2730-M LCD TV
- PC
- RS-232 cable
- Barcode Reader
- HDMI Cable
-



VT2730-M LCD TV



PC



RS-232 Cable



HDMI Cable



Barcode Reader

5.6.2 Setup Procedure

1. Connect HDMI Card and DDC Card with RS-232 cable.



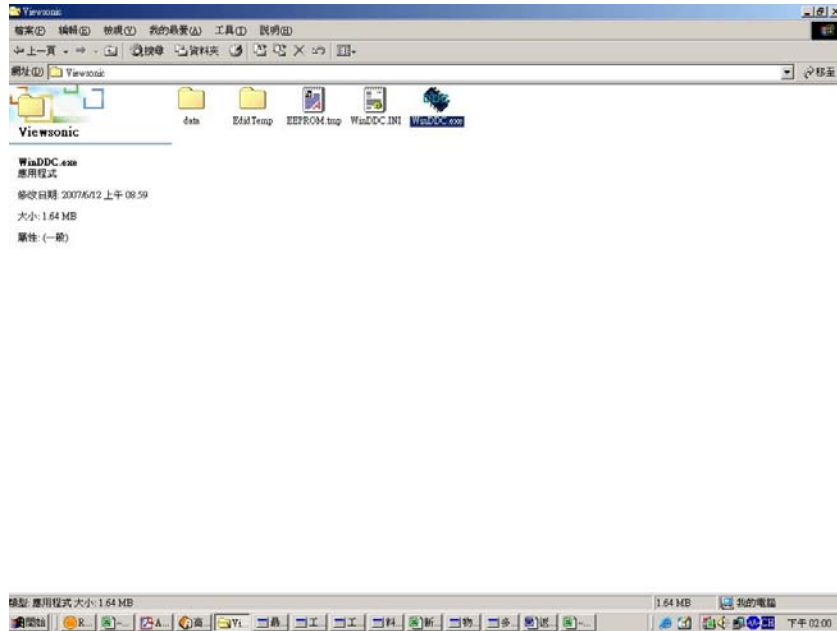
2. Barcode Reader connects with keyboard and PC keyboard port.



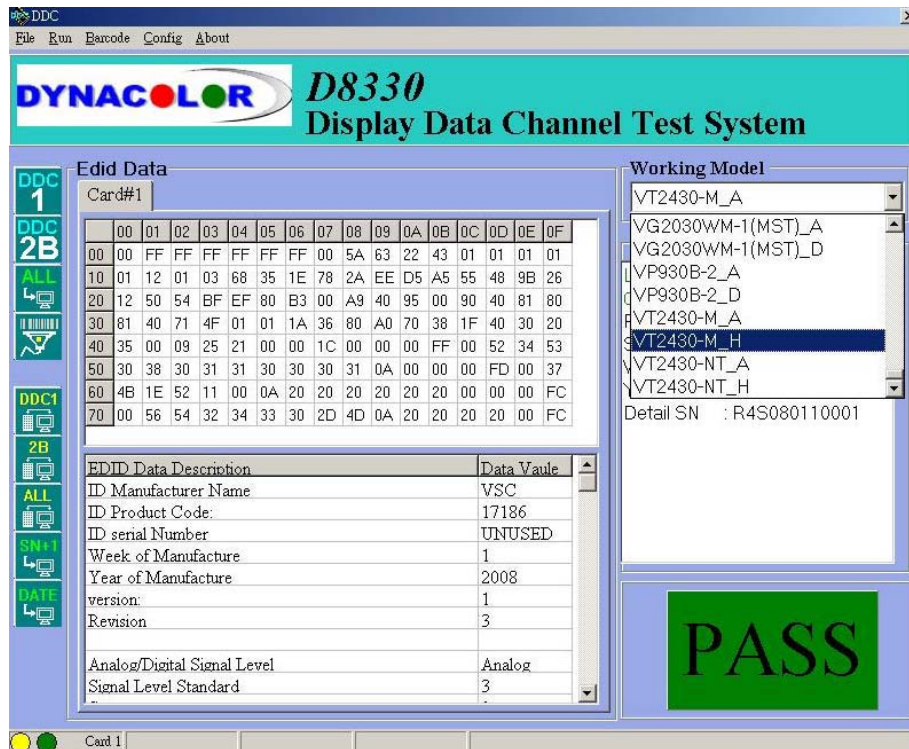
3. Connect DDC Card and VT2730-M LCD TV with HDMI Cable.
4. Connect Power Cord to VT2730-M LCD TV.

5.6.3 DDC Key In Procedure

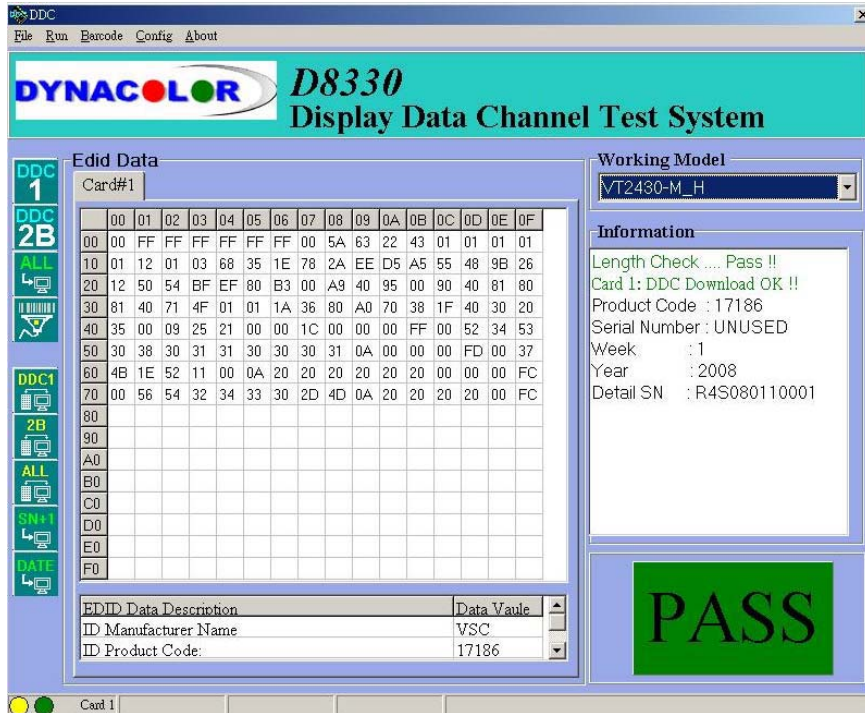
1. Run DDC.exe



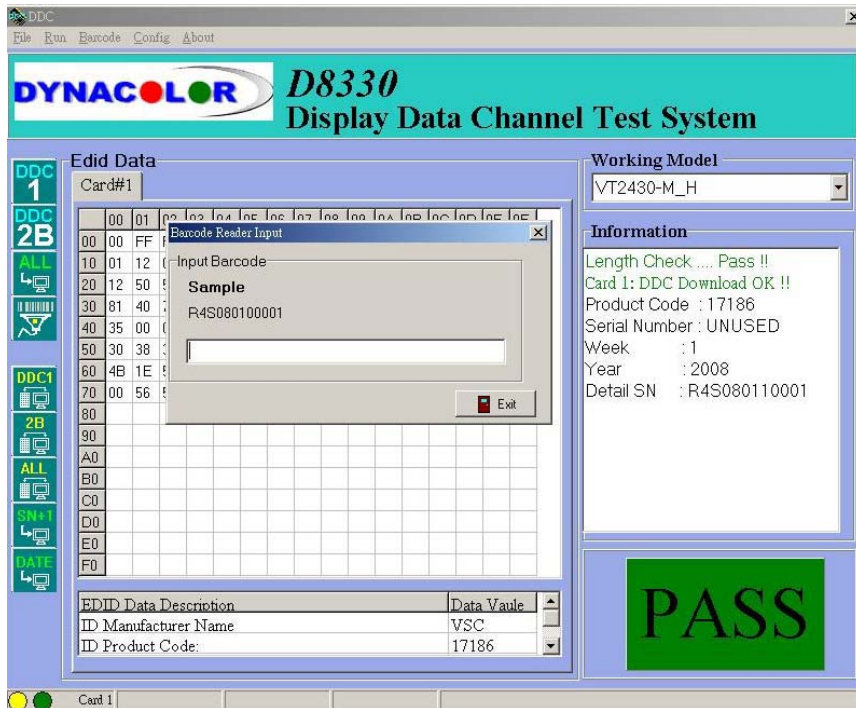
2. Choose model number then



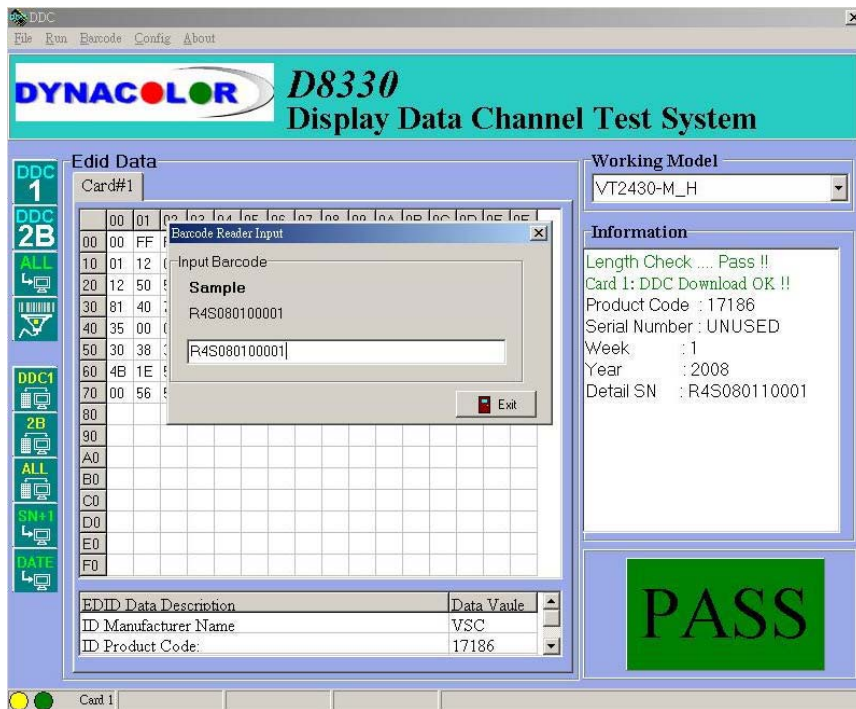
3. Press “ENTER” key.



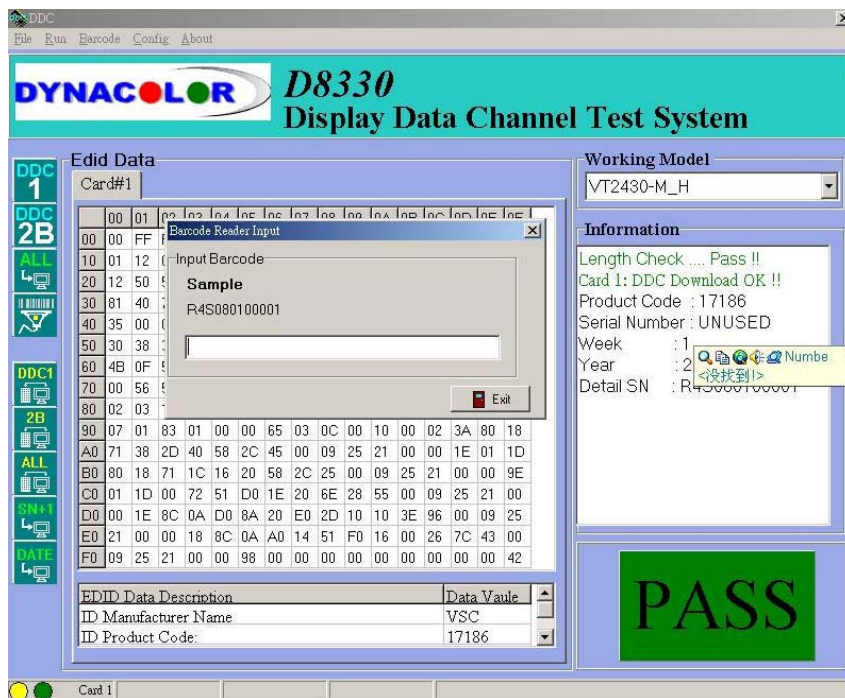
4. Press “F4” key.



5. Input bar code



6. Press “ENTER” key, then the successful picture is as follows. “DDC DOWNLOADED OK!”



7. Exit program

Packing For Shipping And Disassembly Procedure

Packing For Shipping

1. Packing Procedure

1.1 Paste protection film to protect the LCD TV. (Figure 1)

1.2 Put the LCD TV in the PE bag and seal the bag. (Figure 2)



Figure 1

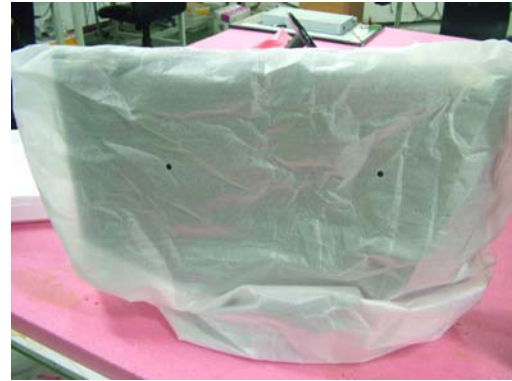


Figure 2

1.3 Put the cushions on the LCD TV. (Figure 3)

1.4 Place the LCD TV into the carton and then Put the other cushions on the LCD TV, put all the accessories into the carton. At last, close the carton and seal it with tape. (Figure 4)



Figure 3

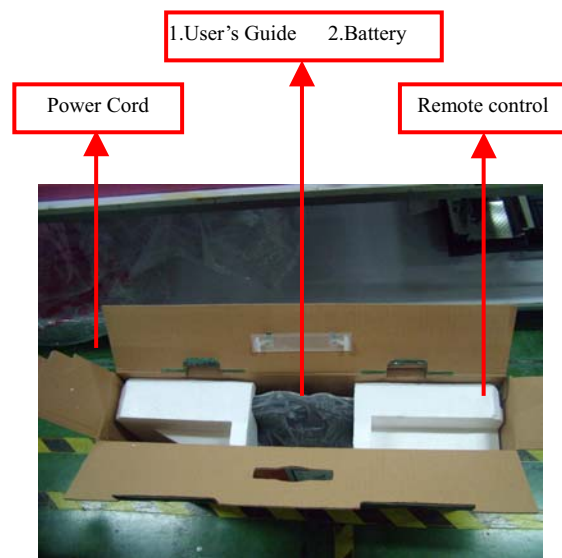
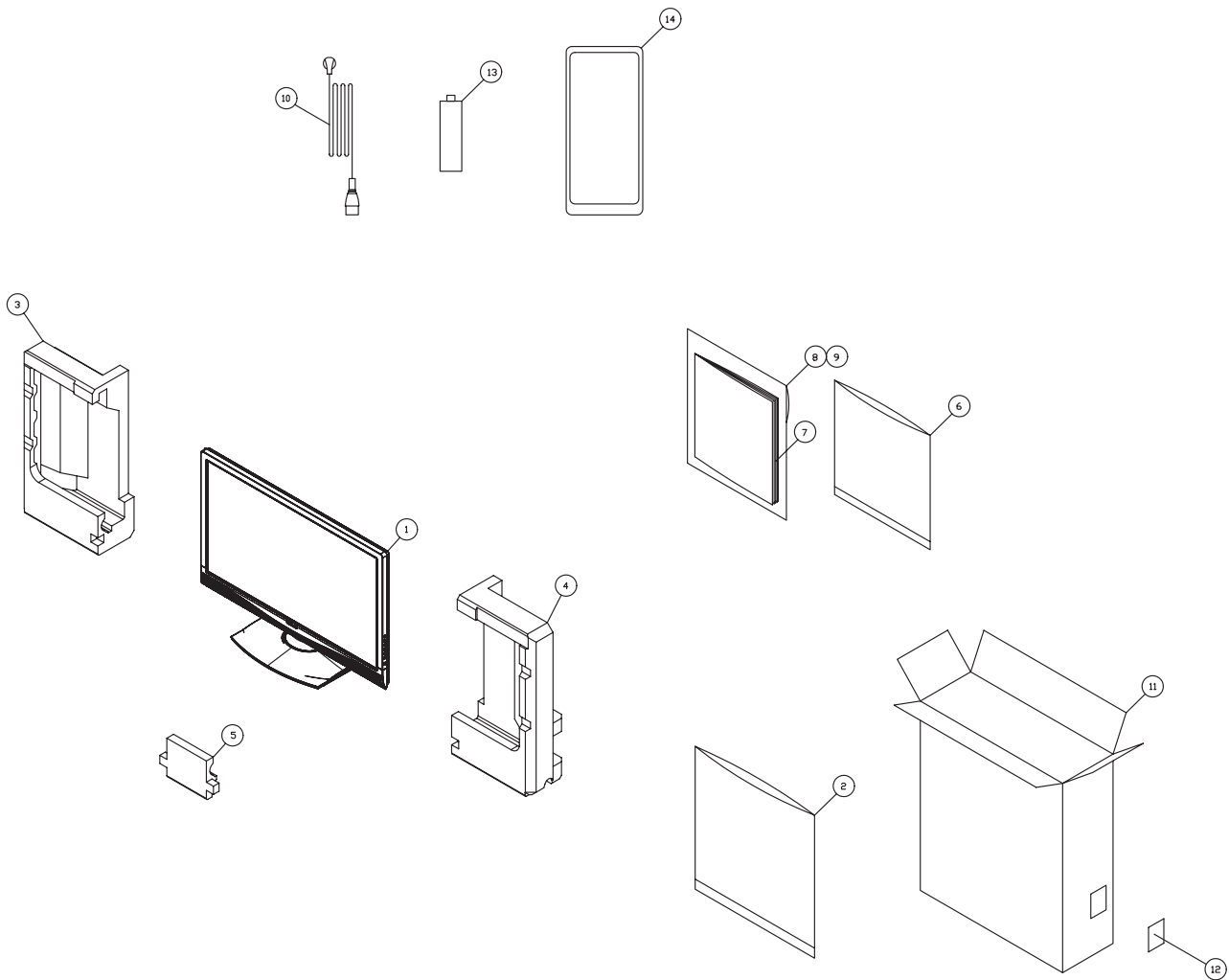


Figure 4

Packing for Shipping



PACKING PART LIST (VT2730-M)

ViewSonic Model Number: VS13154-1M

Rev:1a

Item	ViewSonic P/N	Ref. P/N	Description	Q'ty
1	NA		VT2730M monitor	1
2	P-00008950	2013054065P	POLYETHY BAG	1
3	P-00010152	2012118901P	POLYFOAM(L)	1
4	P-00010153	2012118902P	POLYFOAM(R)	1
5	P-00010154	2012118903P	POLYFOAM(B)	1
6	P-00008947	2013222536P	POLYETHY BAG	1
7	NA	2001132184P	OWNER GUIDE	1
8	NA	2002400048P	QUICK SETUP GUIDE(EN)	1
9	NA	2002400049P	QUICK SETUP GUIDE(FR)	1
10	A-00005362	2427130046P	AC POWER CORD	1
11	P-00010151	2011127065P	CARTON BOX	1
12	NA	2055632349P	LABEL	1
13	A-00008045	2005100500P	BATTERY, DRY	2
14	A-00008696	2419200272P	CONT BLOCK	1

Disassembly Procedure

1. Disassembly of Stand, Rear Cover and Shield Plate from LCD TV.

1.1 Unscrew 4 screws to remove Stand and Dust cover.



Stand



Dust cover

1.2 Unscrew 3 screws to remove Rear Cover.



Rear Cover



1.3 Unscrew 6 screws to remove Shield Plate.

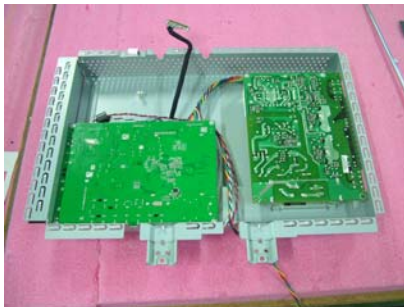


Shield Plate.

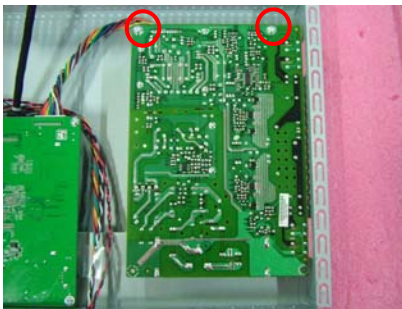


2. Disassembly of Front Cover , Main Board, Power Board and Panel Unit.

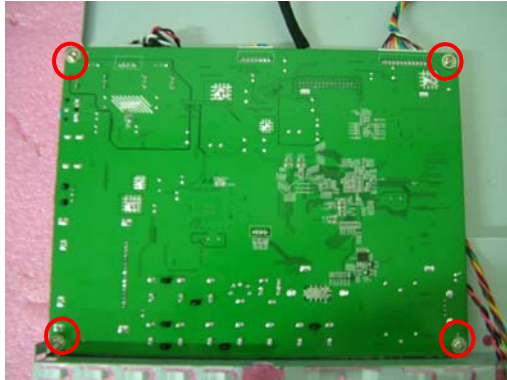
2.1 Unscrew 2 screws to remove Power board.



Power Board



2.2 Unscrew 4 screws to remove Main board and Shield Plate.



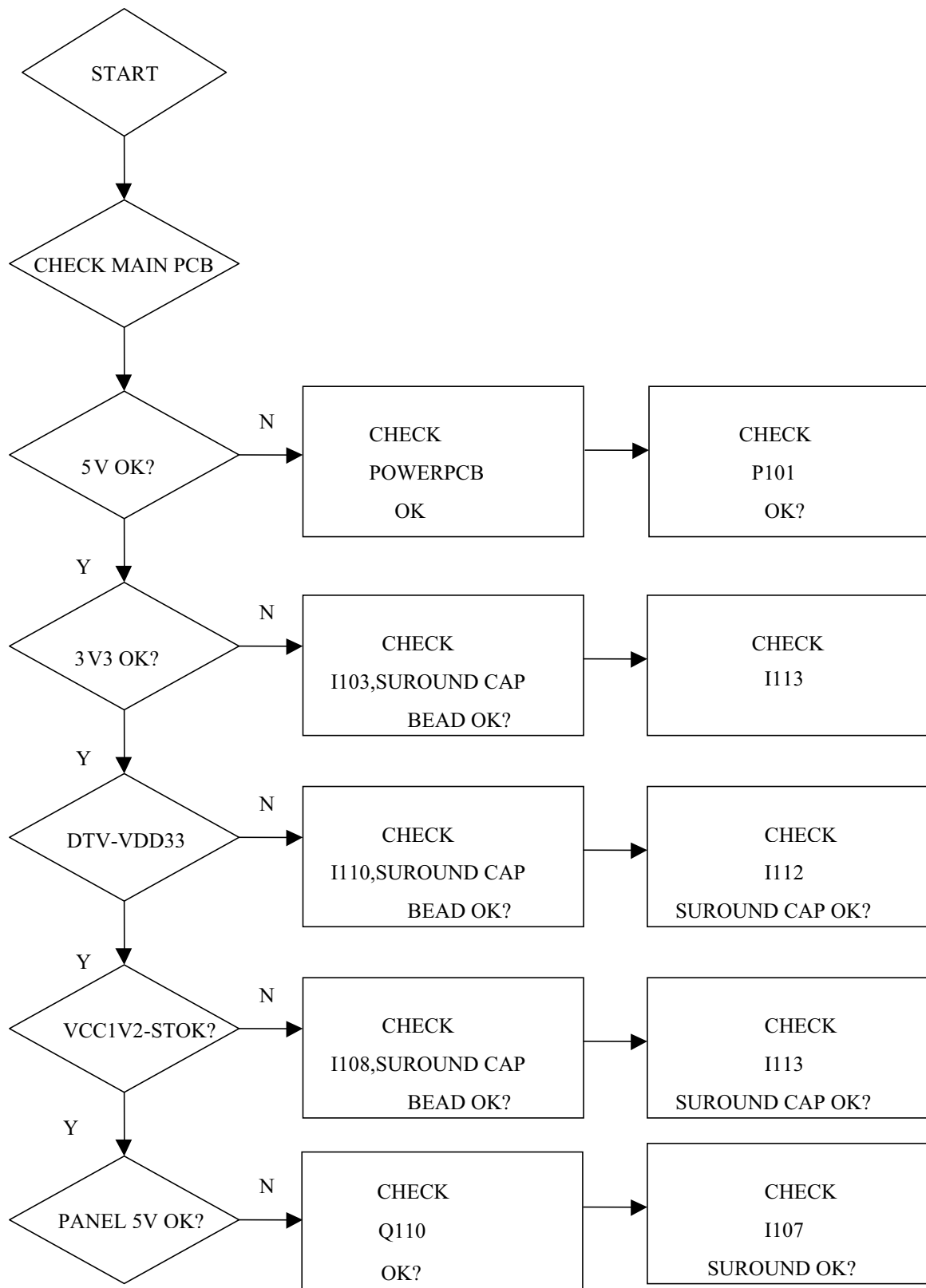
Main Board



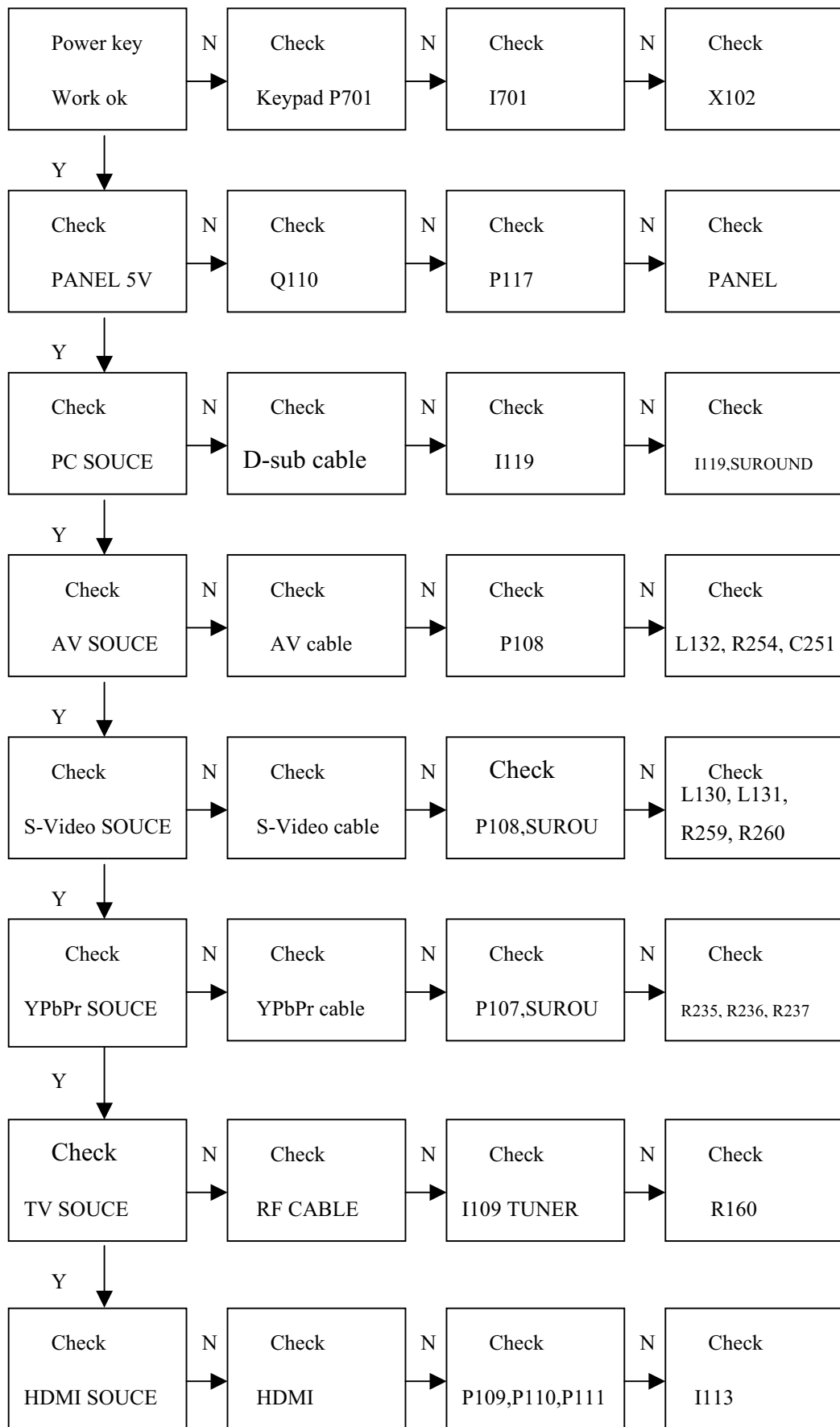
2.3 Unscrew 1 screws to remove Front cover and Panel.



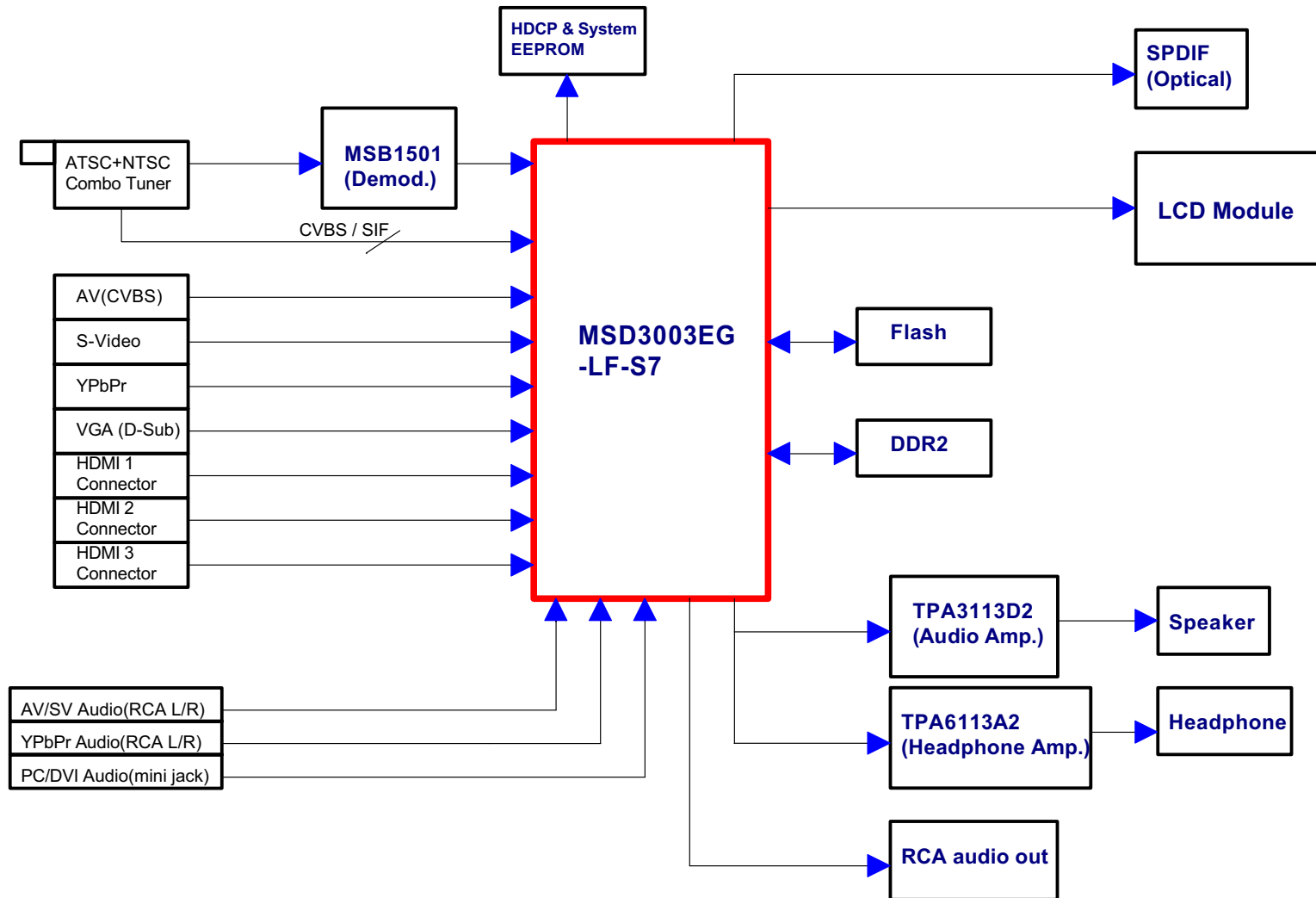
6. Trouble Shooting Flow Chart



6.1 NO DISPLAY

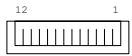


7. Block Diagram

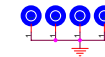
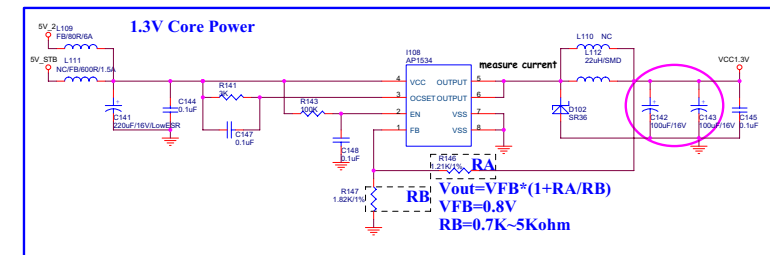
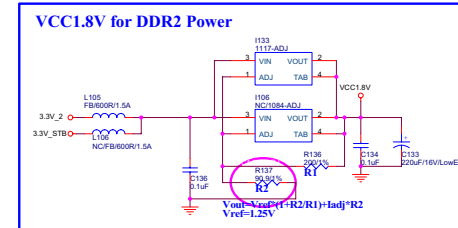
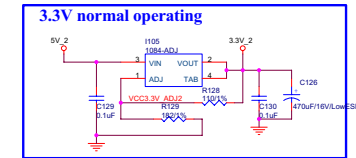
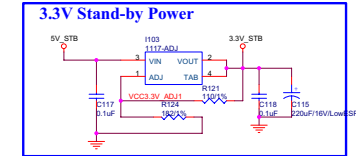
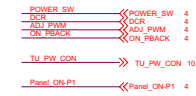
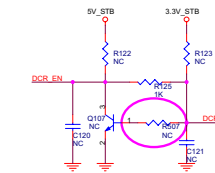
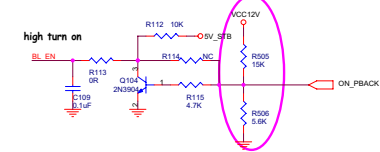
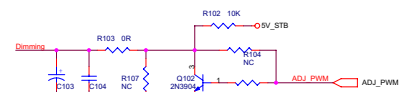
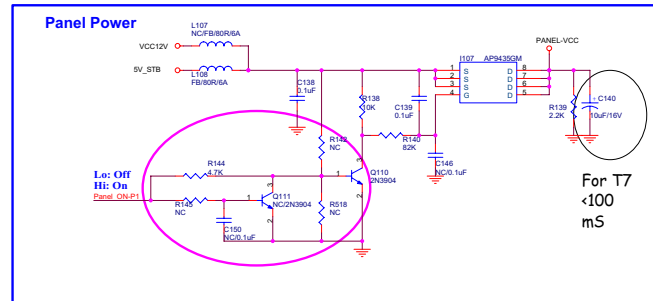
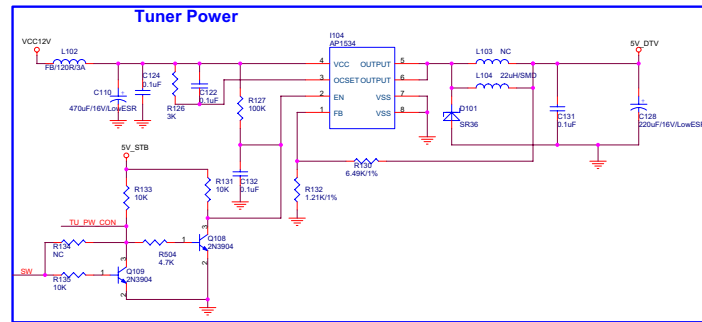
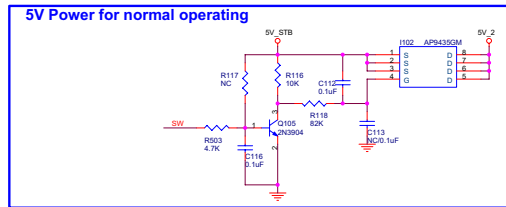
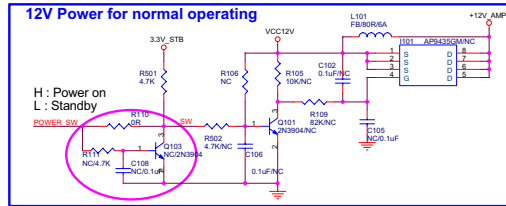
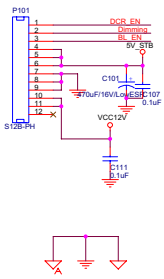


8. Schematic Diagrams

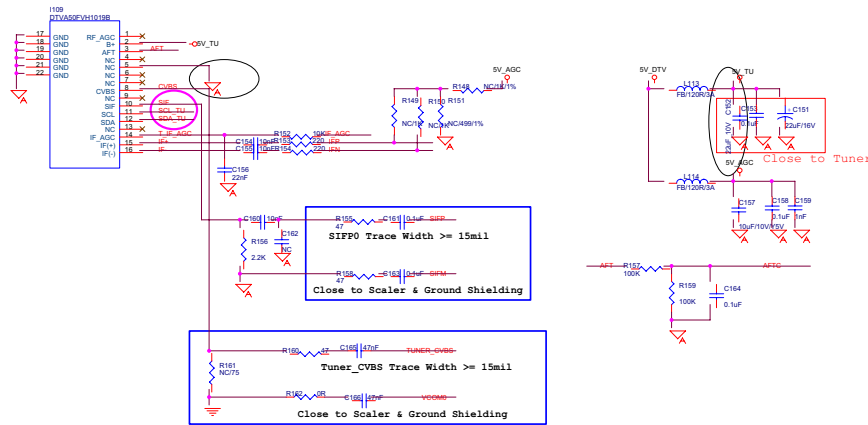
8.1. System Power



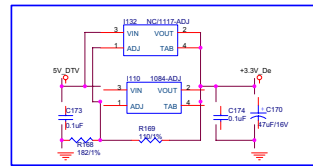
12V INPUT/ 5A



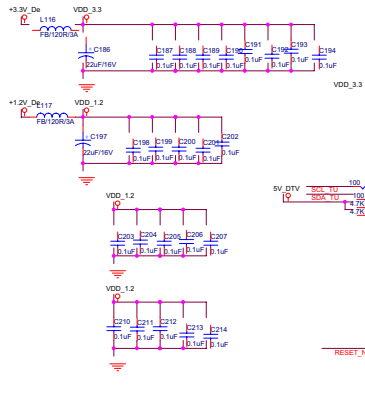
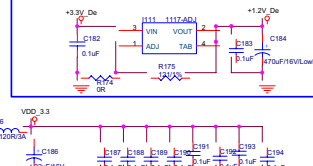
8.2. Tuner & Demod



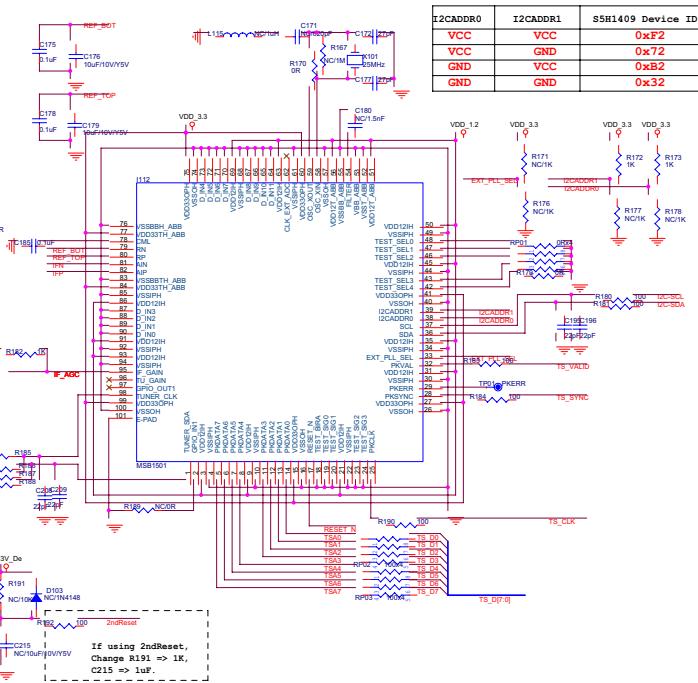
3.3V DTV Demodulator



1.2V DTV Demodulator



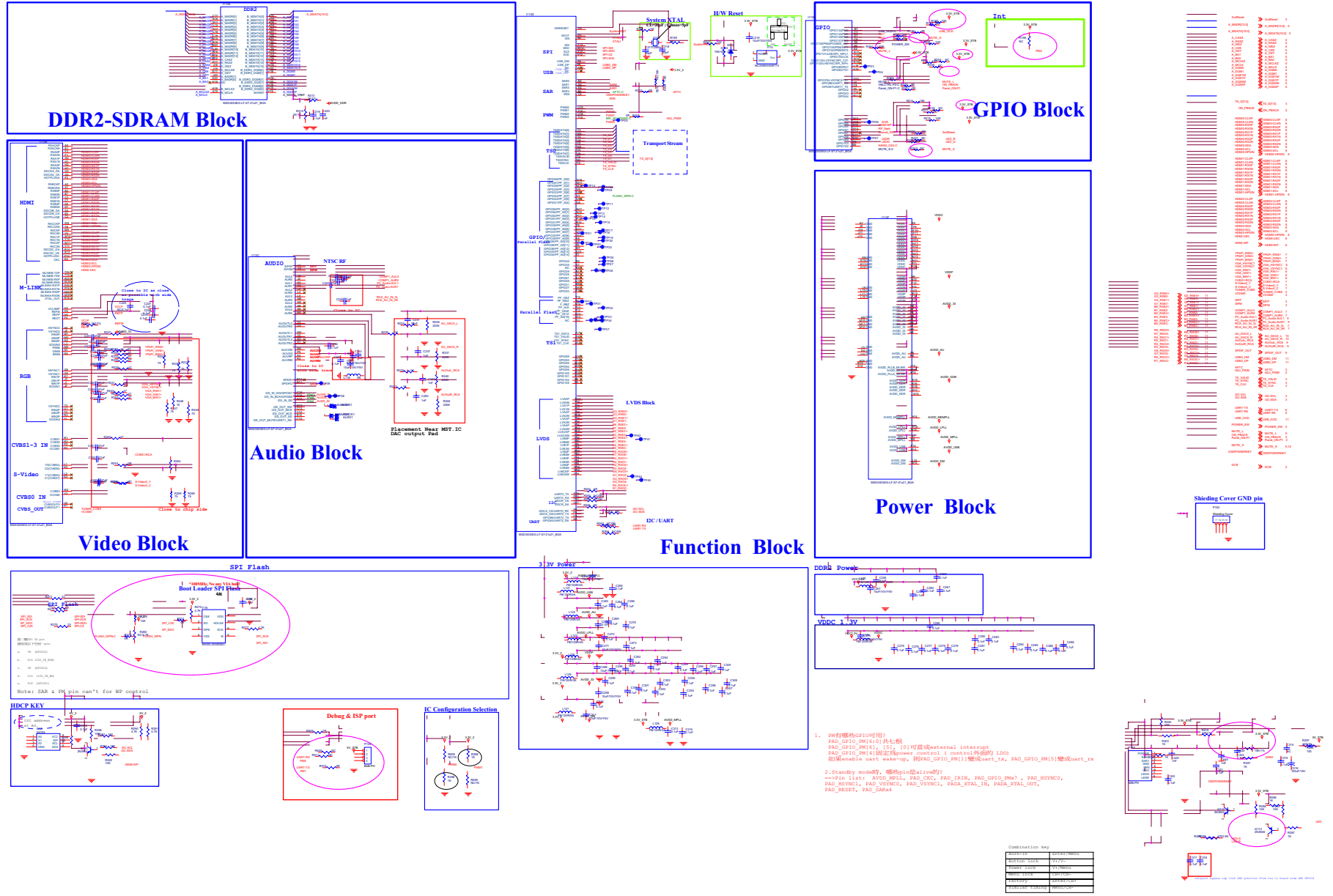
- 4 AF7C AF7C
 - 4 SFP SFP
 - 4 SPM SPM
 - 4 TUNER CVBS TUNER CVBS
 - 4 VCCM VCCM
-
- 4 DC-SC DC-SC
 - 4 TS_VALID TS_VALID
 - 4 TS_SYNC TS_SYNC
 - 4 TS_CLK TS_CLK
 - 4 2ndReset 2ndReset
 - 4 TS_DT[0] TS_DT[0]



I2CADDR0	I2CADDR1	S5H1409 Device ID
VCC	VCC	0x72
VCC	GND	0x72
VCC	VCC	0x72
GND	GND	0x32

		S5H1409	S5H1411
PIN48	TEST_SEL4	GND	NC
PIN47	TEST_SEL3	GND	NC
PIN46	TEST_SEL2	GND	NC
PIN43	TEST_SEL1	GND	NC
PIN42	TEST_SEL0	GND	NC

	S5H1409	S5H1411	1501
C178	39pF		30pF
C183	NC	1M	NC
X101	49.3811 MHz	24.69 MHz	25 MHz
L117	1uH 3rd overtone	NC	NC
C177	620pF 3rd overtone	NC	NC
C184	1500pF	56pF	NC
R187	220R		1K
R157	1K		10K
C162	100nF		20nF
R152	1K		NC
R154	1K		NC
R155	1K		NC
R156	499R		NC
RP01, R184	OR		OR
R176	1K		NC
R194	NC		NC

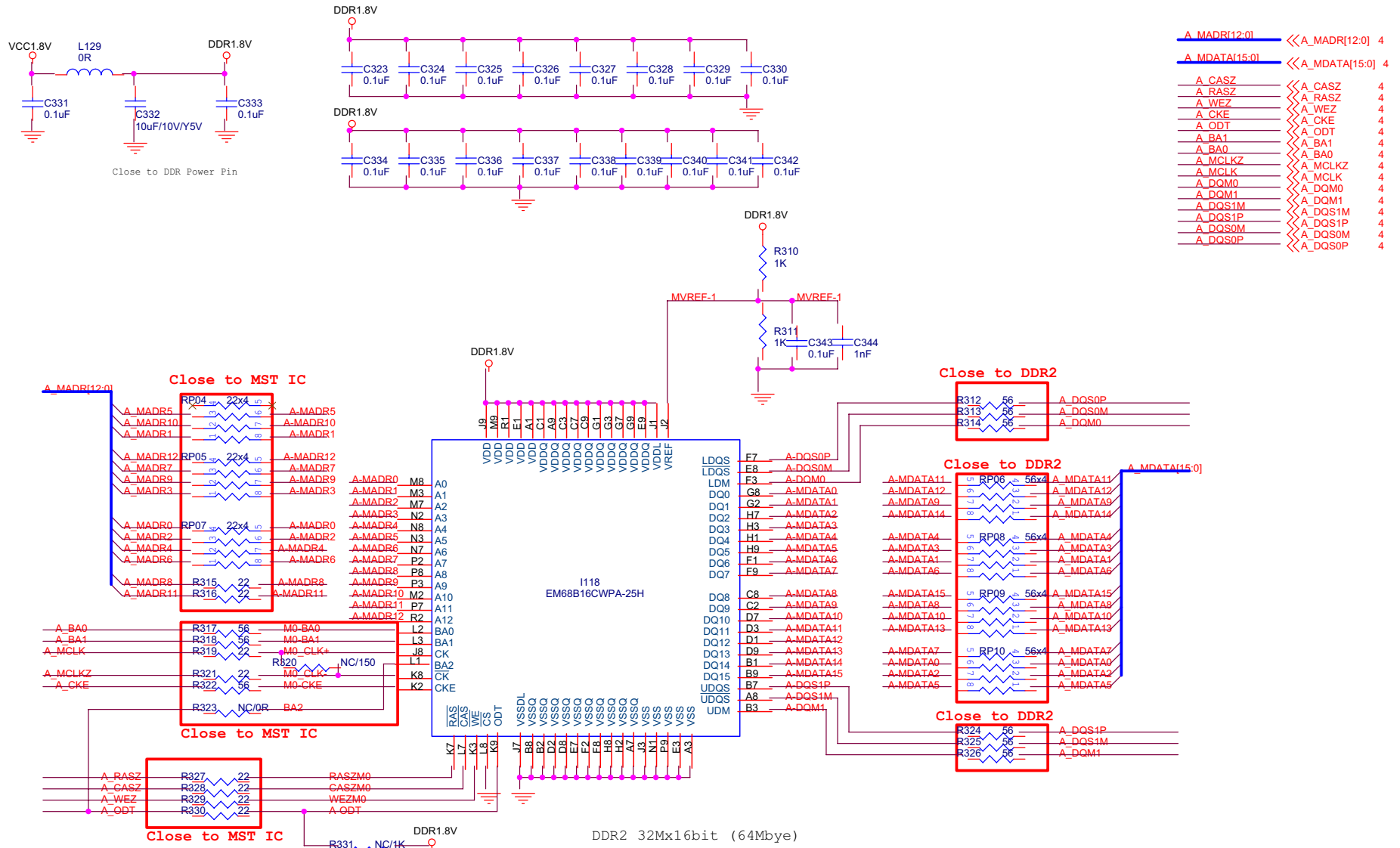


1. 所有GPIO均可用：
 PAD_GPIO_P0[6:0]为七组
 PAD_GPIO_P0[6], [5], [0]可做为external interrupt
 PAD_GPIO_P0[4]固定为power control (control外部IO)
 如Remain use waterpump. 用PAD_GPIO_P0[1]做Reset, 用 PAD_GPIO_P0[5]做Reset_re
2. Standby mode时, 哪些pin是Alive的?
 -pin list: AVDD_M0L, PAD_C0C, PAD_TRIN, PAD_GPIO_P0[7], PAD_RESETC,
 PAD_RESETI, PAD_VDDIOV, PAD_G0TACT, PAD_GPIO_P0, PAD_GPIO_C0V,
 PAD_RESET, PAD_SARx4

Combination key

GPIO1	GPIO1
GPIO2	GPIO2
GPIO3	GPIO3
GPIO4	GPIO4
GPIO5	GPIO5
GPIO6	GPIO6
GPIO7	GPIO7
GPIO8	GPIO8
GPIO9	GPIO9
GPIO10	GPIO10
GPIO11	GPIO11
GPIO12	GPIO12
GPIO13	GPIO13
GPIO14	GPIO14
GPIO15	GPIO15
GPIO16	GPIO16
GPIO17	GPIO17
GPIO18	GPIO18
GPIO19	GPIO19
GPIO20	GPIO20
GPIO21	GPIO21
GPIO22	GPIO22
GPIO23	GPIO23
GPIO24	GPIO24
GPIO25	GPIO25
GPIO26	GPIO26
GPIO27	GPIO27
GPIO28	GPIO28
GPIO29	GPIO29
GPIO30	GPIO30
GPIO31	GPIO31
GPIO32	GPIO32
GPIO33	GPIO33
GPIO34	GPIO34
GPIO35	GPIO35
GPIO36	GPIO36
GPIO37	GPIO37
GPIO38	GPIO38
GPIO39	GPIO39
GPIO40	GPIO40
GPIO41	GPIO41
GPIO42	GPIO42
GPIO43	GPIO43
GPIO44	GPIO44
GPIO45	GPIO45
GPIO46	GPIO46
GPIO47	GPIO47
GPIO48	GPIO48
GPIO49	GPIO49
GPIO50	GPIO50
GPIO51	GPIO51
GPIO52	GPIO52
GPIO53	GPIO53
GPIO54	GPIO54
GPIO55	GPIO55
GPIO56	GPIO56
GPIO57	GPIO57
GPIO58	GPIO58
GPIO59	GPIO59
GPIO60	GPIO60
GPIO61	GPIO61
GPIO62	GPIO62
GPIO63	GPIO63
GPIO64	GPIO64
GPIO65	GPIO65
GPIO66	GPIO66
GPIO67	GPIO67
GPIO68	GPIO68
GPIO69	GPIO69
GPIO70	GPIO70
GPIO71	GPIO71
GPIO72	GPIO72
GPIO73	GPIO73
GPIO74	GPIO74
GPIO75	GPIO75
GPIO76	GPIO76
GPIO77	GPIO77
GPIO78	GPIO78
GPIO79	GPIO79
GPIO80	GPIO80
GPIO81	GPIO81
GPIO82	GPIO82
GPIO83	GPIO83
GPIO84	GPIO84
GPIO85	GPIO85
GPIO86	GPIO86
GPIO87	GPIO87
GPIO88	GPIO88
GPIO89	GPIO89
GPIO90	GPIO90
GPIO91	GPIO91
GPIO92	GPIO92
GPIO93	GPIO93
GPIO94	GPIO94
GPIO95	GPIO95
GPIO96	GPIO96
GPIO97	GPIO97
GPIO98	GPIO98
GPIO99	GPIO99
GPIO100	GPIO100

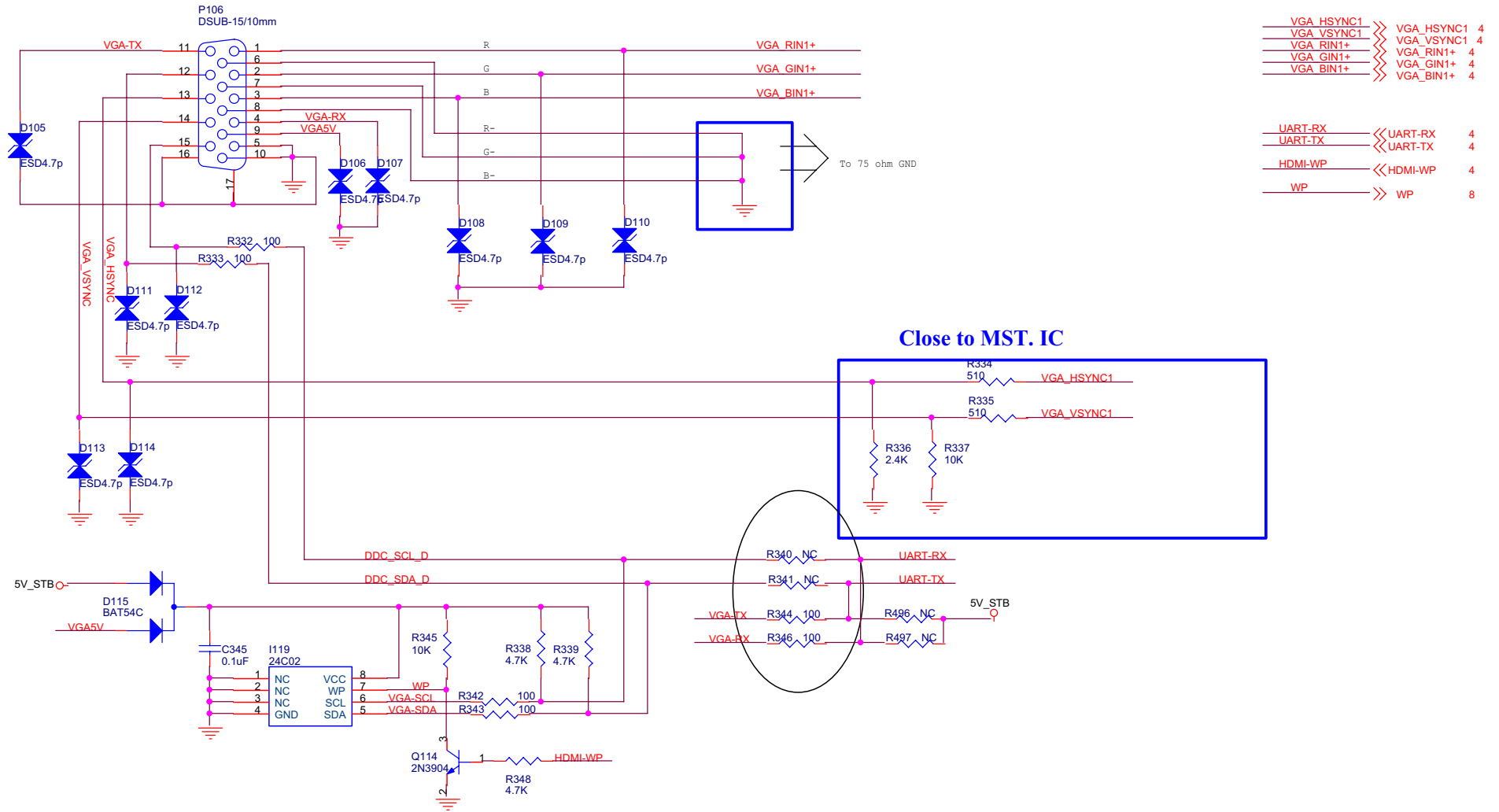
8.4. DDR2



64MB: R323=>NC, R331=>NC, R330=>22 ohm
 128MB: R323=>0 ohm, R331=>1K, R330=>NC

DDR2 32Mx16bit (64Mbyte)
 Erton : EM68B16CWPA-25H
 Zentel : A3R12E14JFF
 Elpida : EDE5116AJBG-8E-E

8.5. VGA

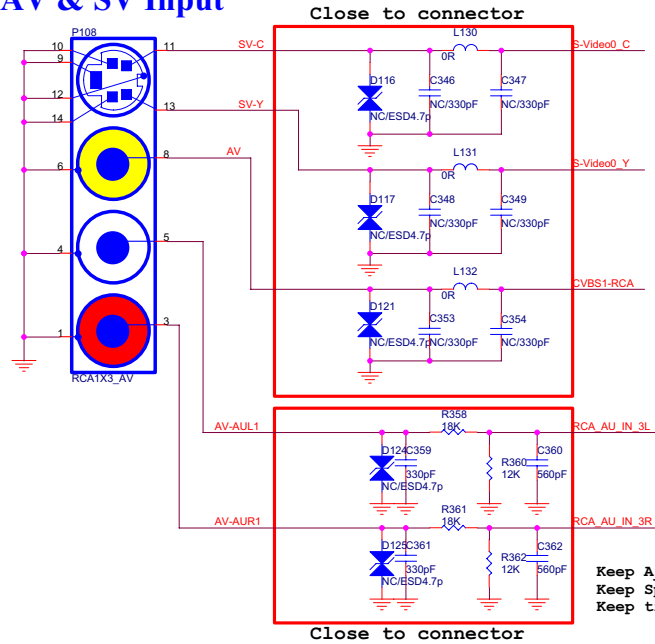


— VGA_HSYNC1	»»»»	VGA_HSYNC1	4
— VGA_VSYNC1	»»»»	VGA_VSYNC1	4
— VGA_RIN1+	»»»»	VGA_RIN1+	4
— VGA_GIN1+	»»»»	VGA_GIN1+	4
— VGA_BIN1+	»»»»	VGA_BIN1+	4
— UART-RX	»»»»	UART-RX	4
— UART-TX	»»»»	UART-TX	4
— HDMI-WP	»»»»	HDMI-WP	4
— WP	»»»»	WP	8

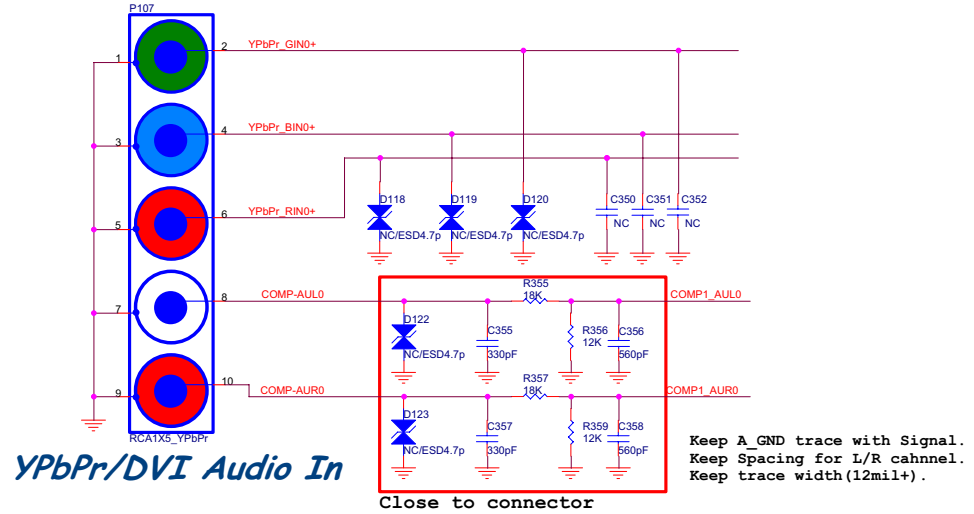
8.6. Video_Interface

YPbPr_RIN0+	>>>	YPbPr_RIN0+	4
YPbPr_GIN0+	>>>	YPbPr_GIN0+	4
YPbPr_BIN0+	>>>	YPbPr_BIN0+	4
CVBS1-RCA	>>>	CVBS1-RCA	4
S-Video0_Y	>>>	S-Video0_Y	4
S-Video0_C	>>>	S-Video0_C	4
COMP1_AUR0	>>>	COMP1_AUR0	4
COMP1_AUL0	>>>	COMP1_AUL0	4
RCA_AU_IN_3R	>>>	RCA_AU_IN_3R	4
RCA_AU_IN_3L	>>>	RCA_AU_IN_3L	4

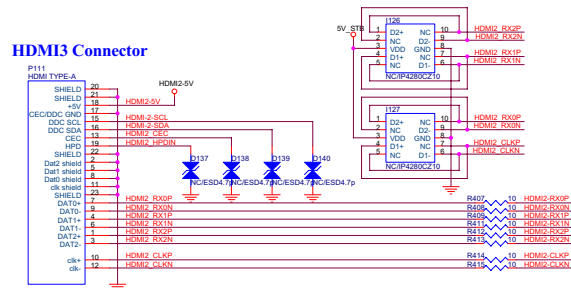
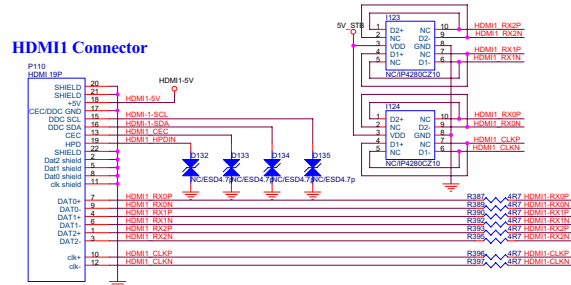
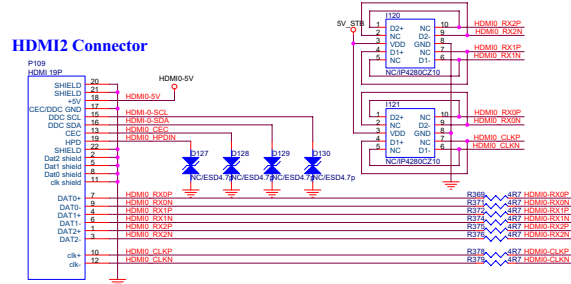
AV & SV Input



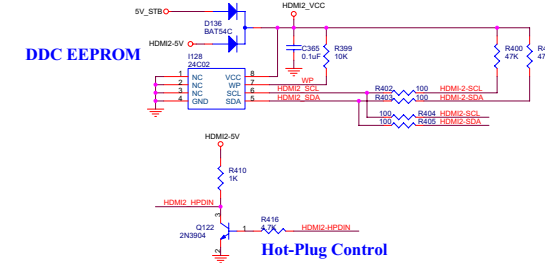
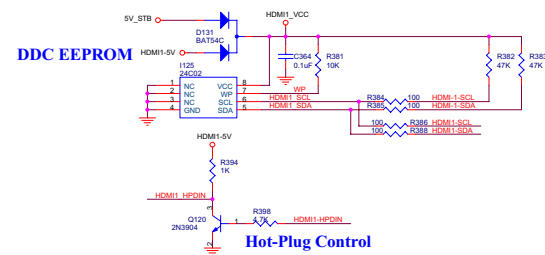
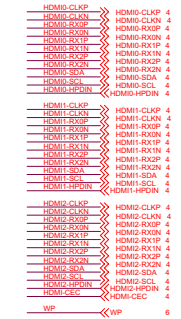
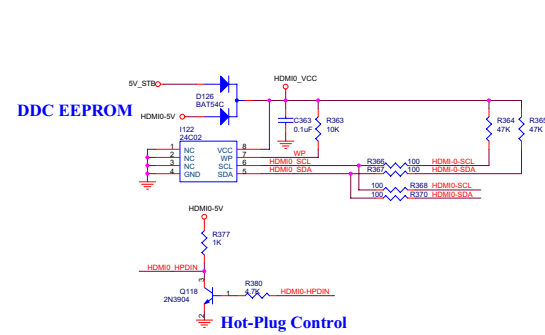
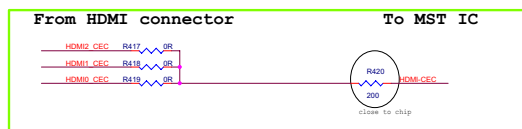
YPbPr Input



8.7. HDMI interface

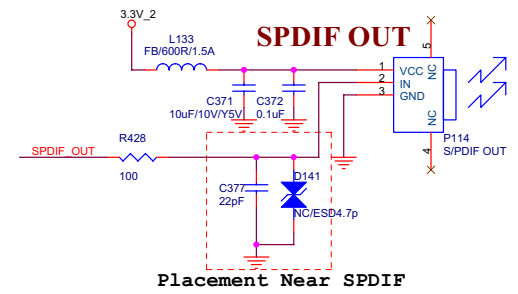
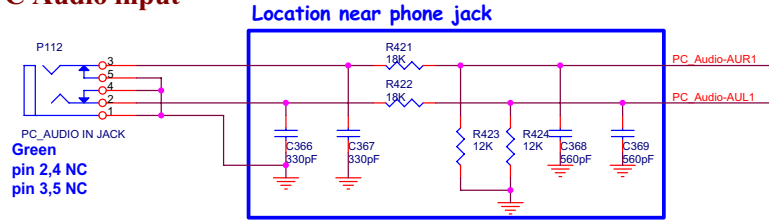


For CEC Leakage Protect



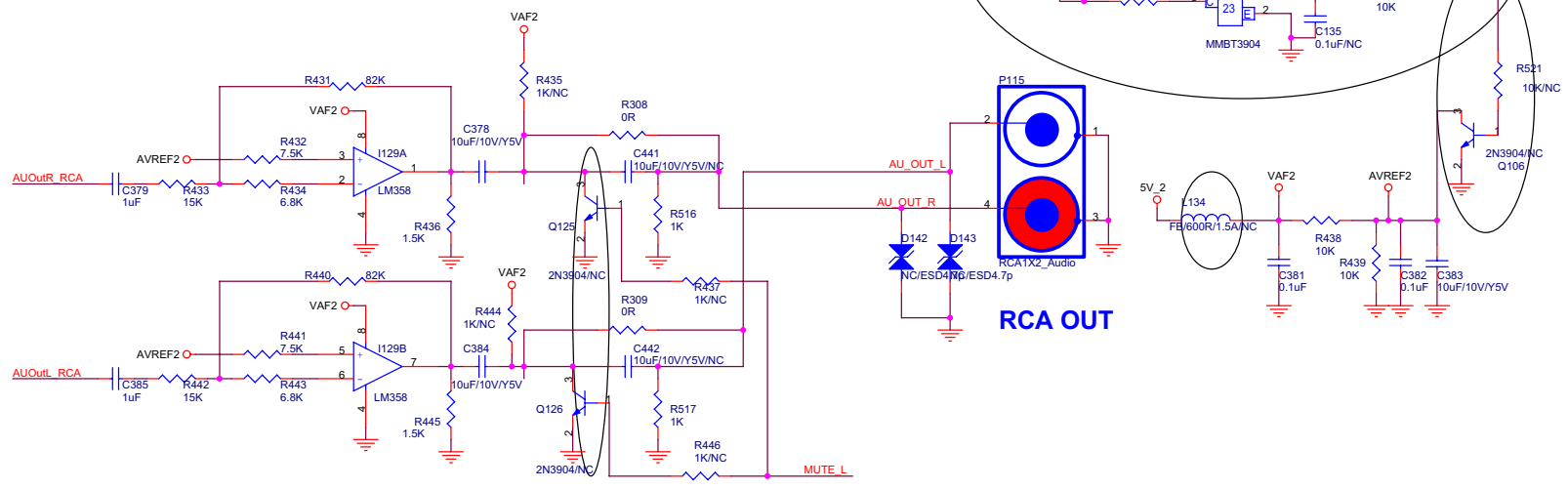
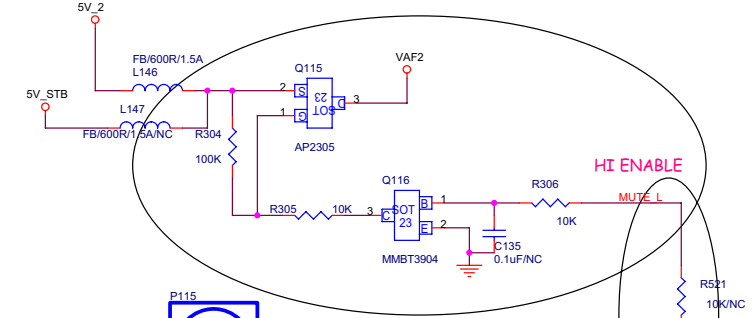
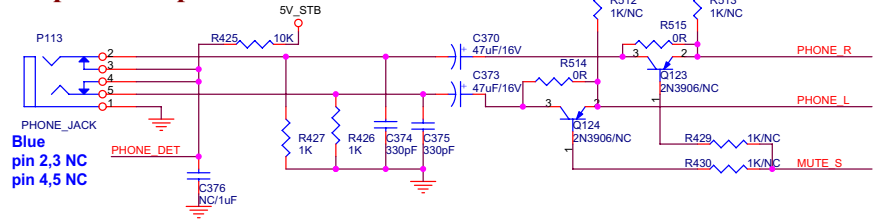
8.8. Audio Interface

PC Audio input



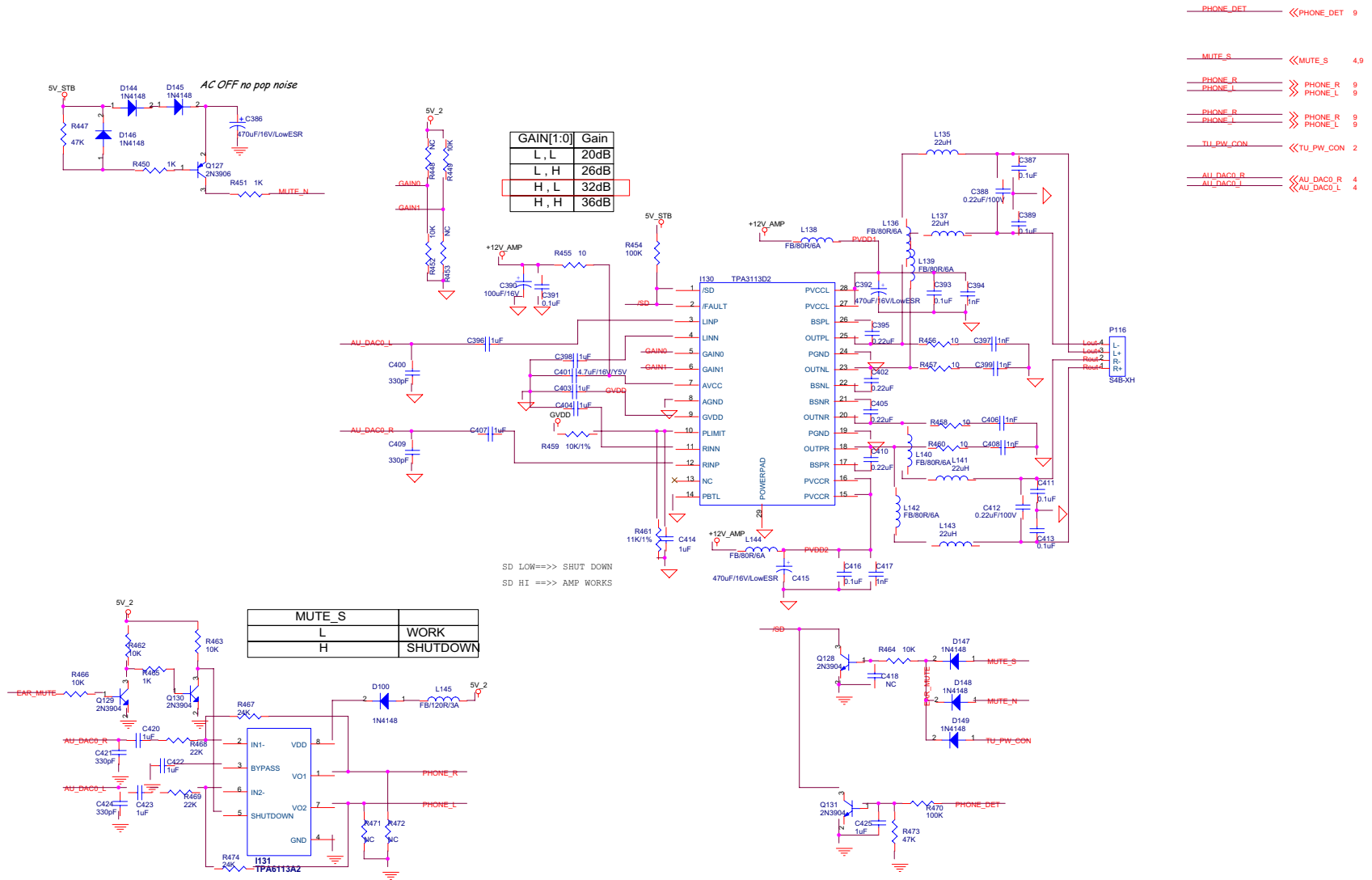
- PHONE_DET >>> PHONE_DET 10
- SPDIF_OUT <<< SPDIF_OUT 4
- MUTE_S <<< MUTE_S 4,10
- MUTE_L <<< MUTE_L 4
- PHONE_R <<< PHONE_R 10
- PHONE_L <<< PHONE_L 10
- AUOutR_RCA <<< AUOutR_RCA 4
- AUOutL_RCA <<< AUOutL_RCA 4
- PC Audio-AUR1 <<< PC Audio-AUR1 4
- PC Audio-AUL1 <<< PC Audio-AUL1 4

Headphone output

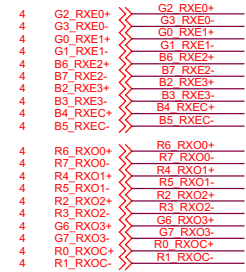


8.9. Audio Amp. Interface

Audio Pre-Amplifier

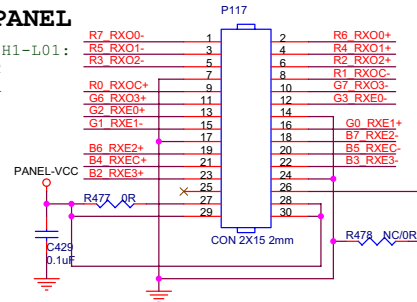


8.10. Panel/USB Interface

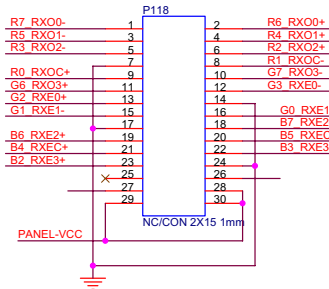


LVDS PANEL

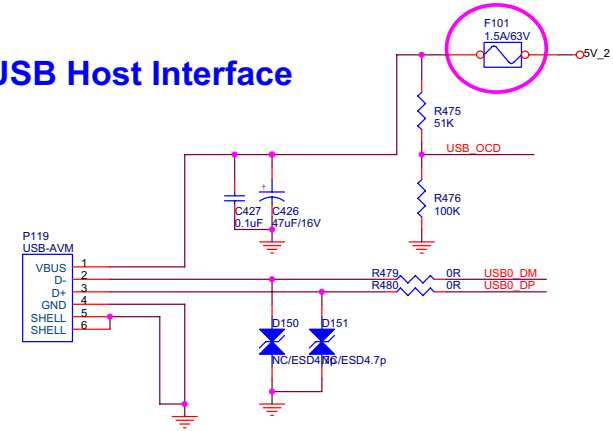
CMO M270H1-L01:
R494 NC
R493 OR



LVDS Panel (Header Type)



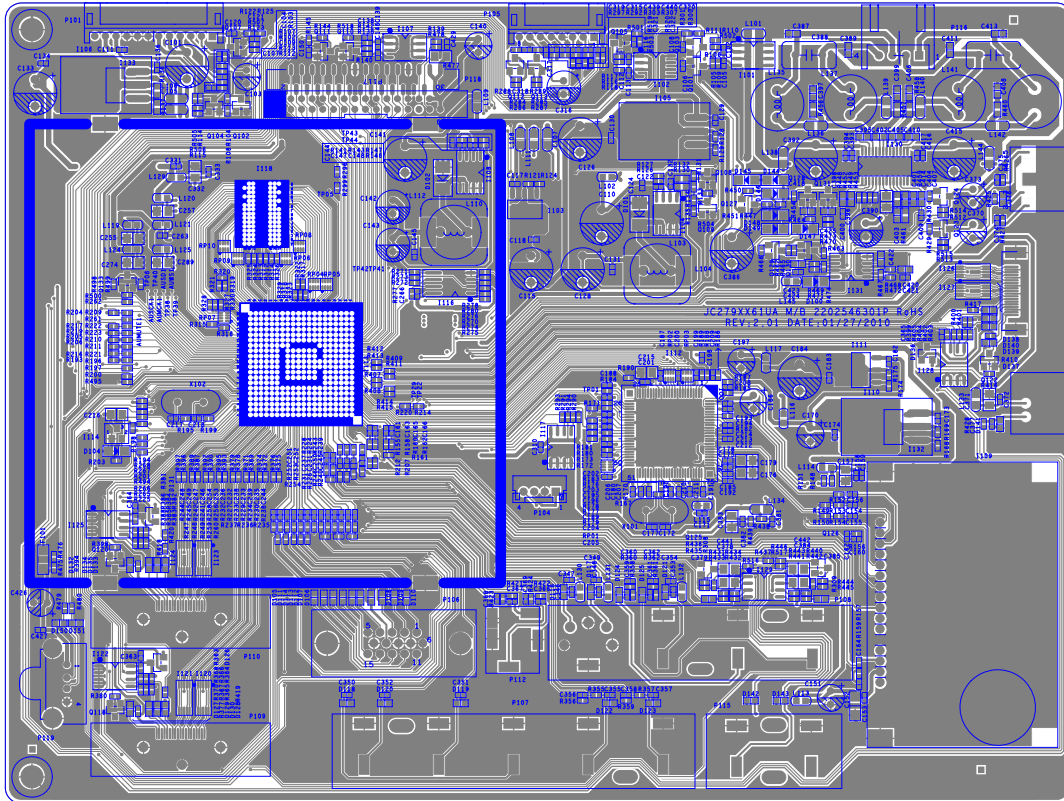
USB Host Interface



9. PCB Layout Diagrams

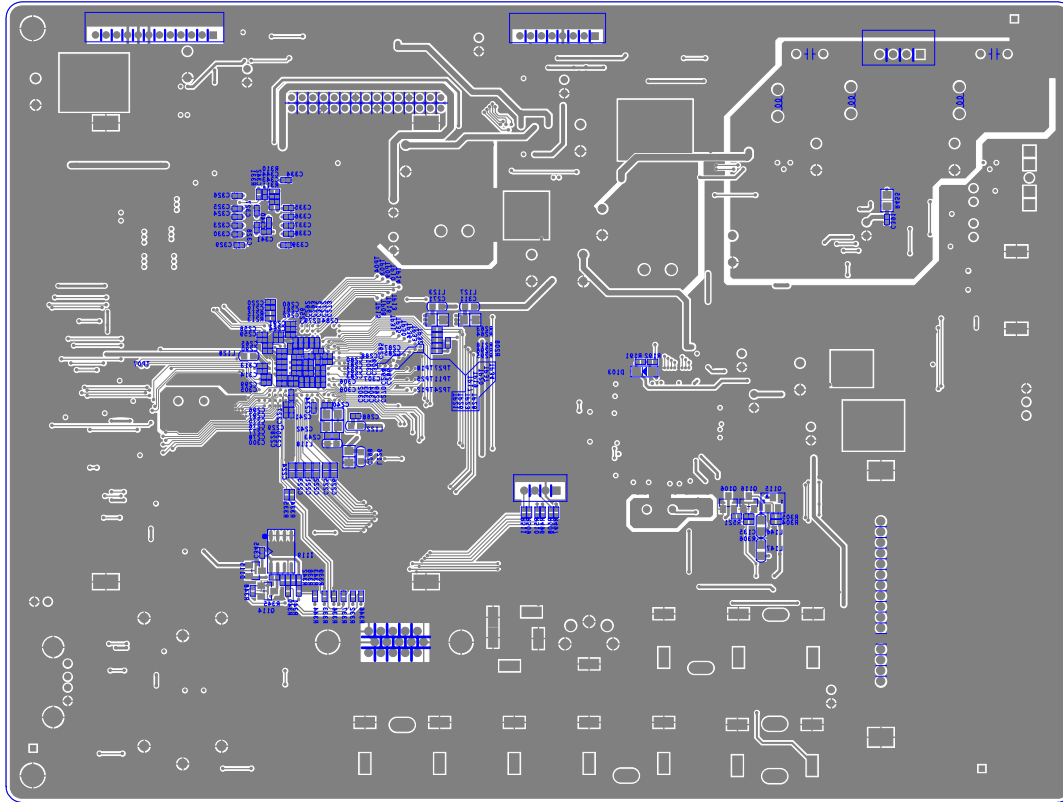
9.1. MAIN PCB TOP VIEW

200x150n

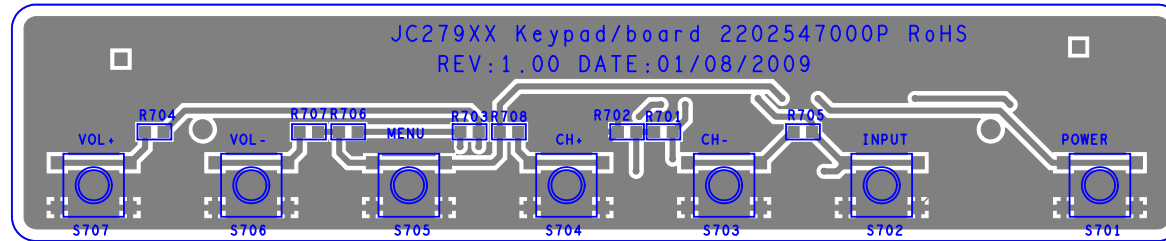


9.2. MAIN PCB BOTTOM VIEW

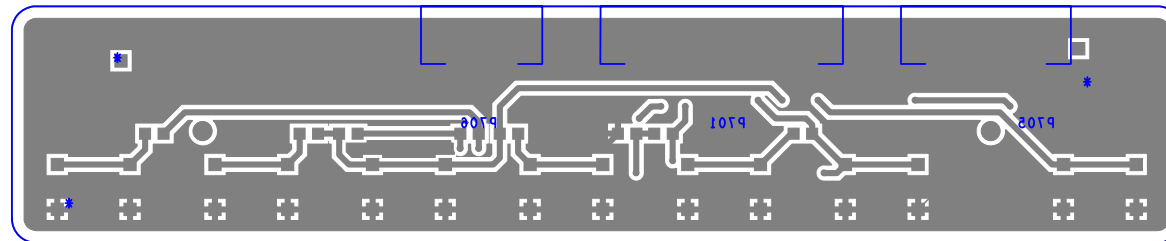
200 x 150m



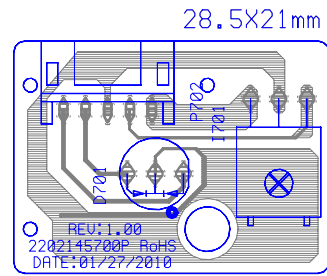
9.3. KEYPAD PCB TOP VIEW



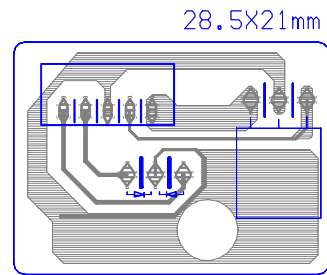
9.4. KEYPAD PCB BOTTOM VIEW



9.5. IR PCB TOP VIEW

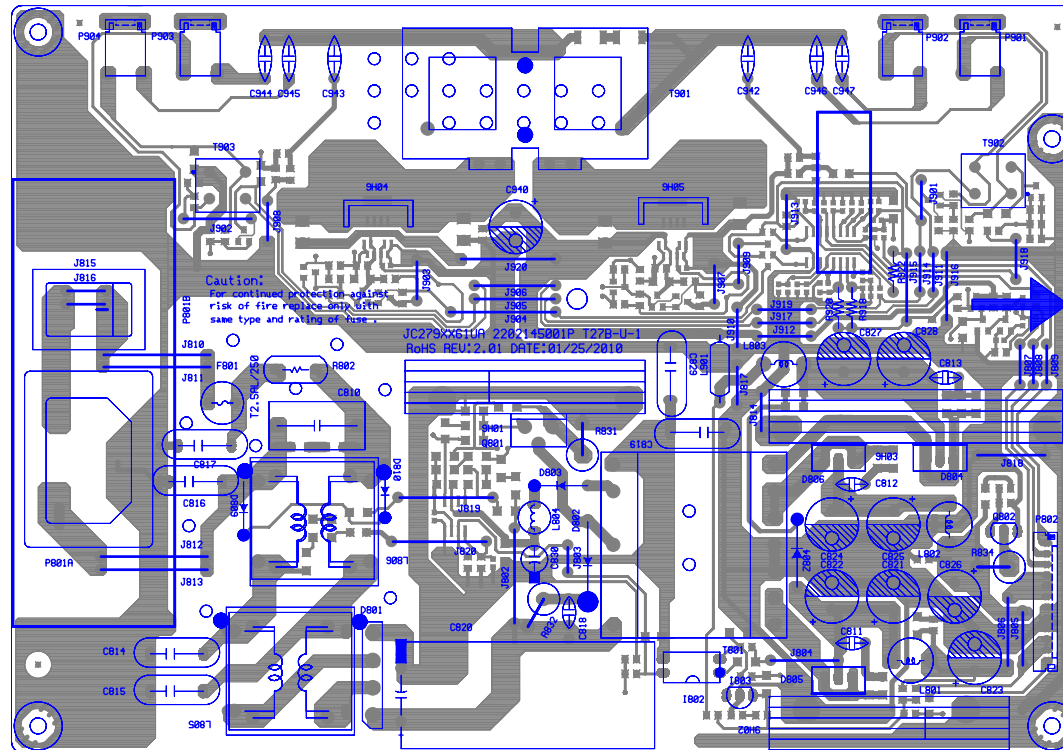


9.6. IR PCB BOTTOM VIEW



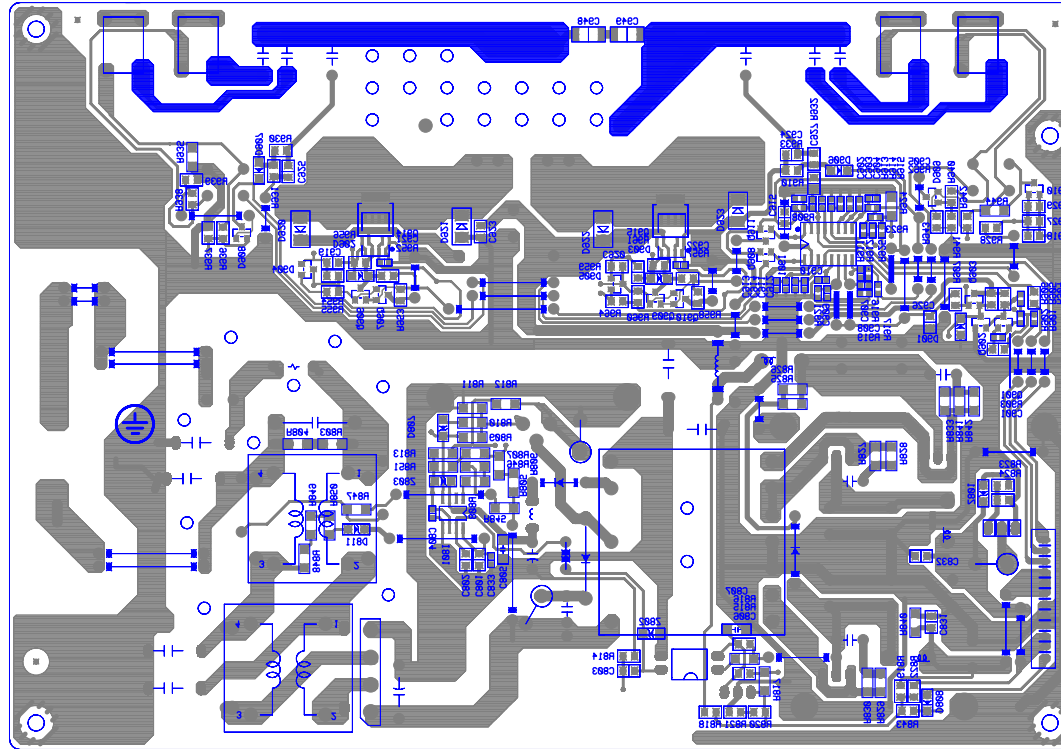
9.7. POWER PCB TOP VIEW

200*140mm

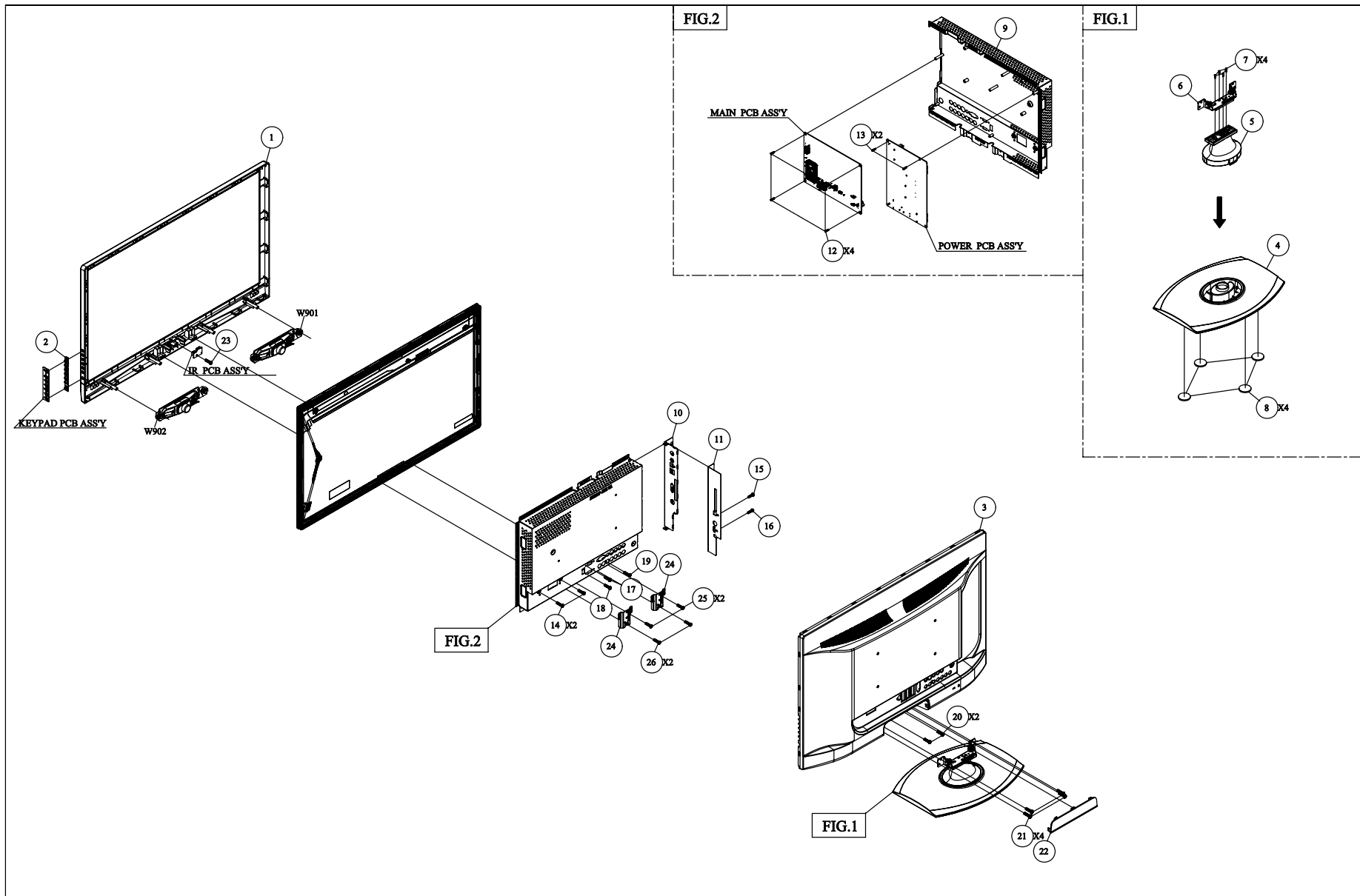


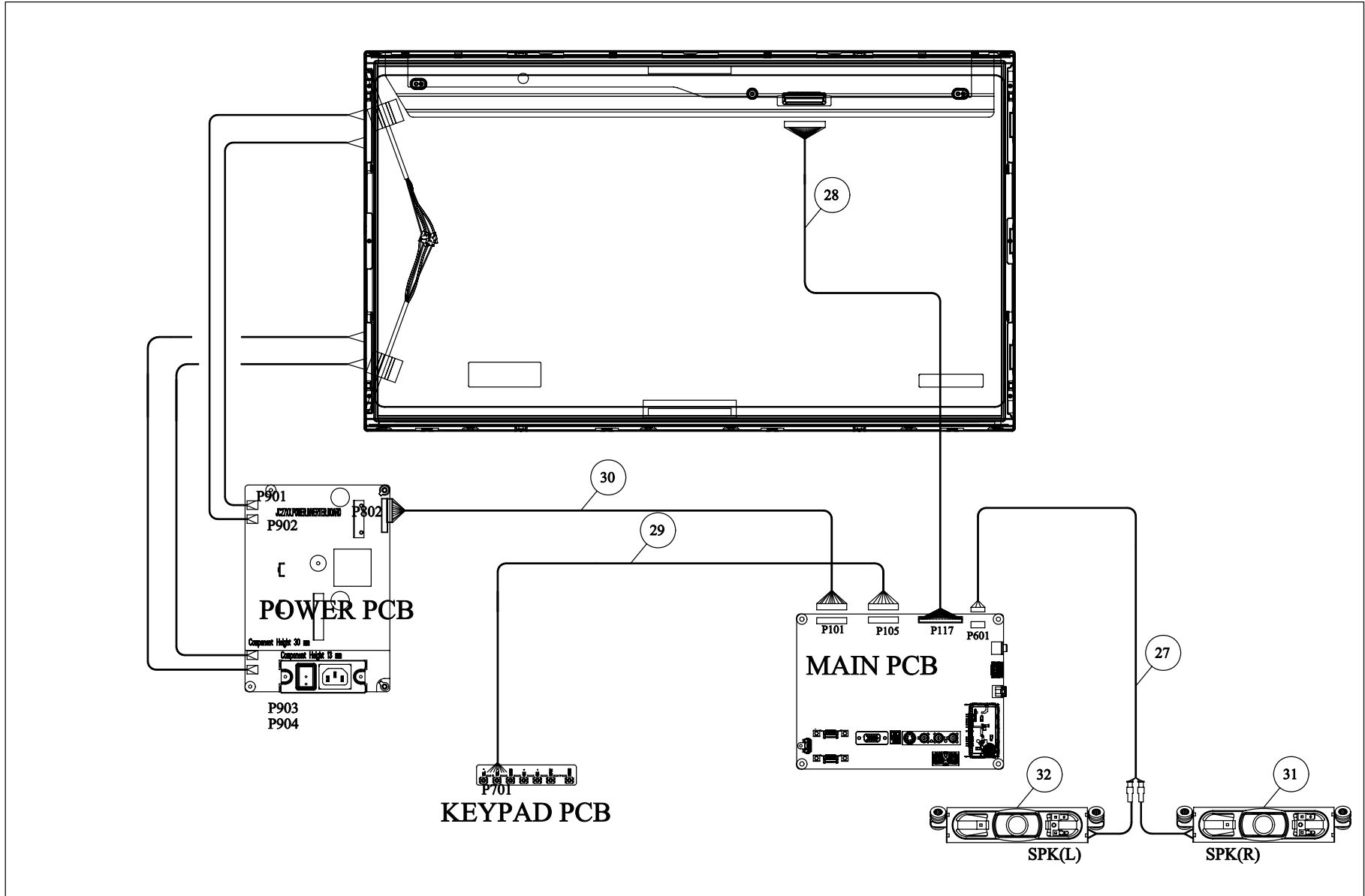
9.8. POWER PCB BOTTOM VIEW

200*140mm



10. Exploded View And Exploded Parts List





EXPLODED PARTS LIST (VT2730-M)

ViewSonic Model Number: VS13154-1M

Rev:1a

Item	ViewSonic P/N	Ref. P/N	Description		Q'ty
1	NA	2024291102P-01	FRONT BEZEL	VT2730 ABS94HB G.L BLACK	1
2	NA	2044275801P	FUNCTION KEY	JC279E ABS94HB G.L BLACK	1
3	C-00010085	2022288602P-01	CABI BACK	JC279E UA ABS94HB G.L BLACK	1
4	NA	2028269001P	STAND	VT2730 ABS94HB G.L BLACK	1
5	NA	2028562601P	NECK	JC279U ABS94HB G.L BLACK	1
6	NA	2106665900P	HINGE	JC279E U NECK HINGE 0~20° 50kg -CM (H.Y.)	1
7	NA	2086240142P	SCREW P SW+	M4*14mm PSW+2N	4
8	NA	2039820800P	FOOT PAD	φ 20*3.0T SQUARE GRAIN BLK	4
9	NA	2071685402P	SHIELD PLATE	JC279E 61UA SECC 0.6T	1
10	NA	2072055902P	METAL FITTG-I/O	JC279E 61UA SIDE IO SECC 0.6T	1
11	NA	2054155802P	ORNAMENT	JC279E 61UA SIDE IO PC 0.5T ADHESIVE	1
12	M-SCW-0824-	2080003700P	SCREW SPE	ISZZTER001A M3*6L MSWR17/FZMYI	4
13	M-SCW-0824-	2080003700P	SCREW SPE	ISZZTER001A M3*6L MSWR17/FZMYI	2
14	HW-00008083	2082630082P	SCREW	M3X8 P=0.5	2
15	NA	2082630084P	SCREW	M3X8 P=0.5 BLACK	1
16	NA	2084730084P	SCREW BND T+	M3X8(BND T+) (BLK)	1
17	NA	2082630084P	SCREW	M3X8 P=0.5 BLACK	1
18	NA	2082630084P	SCREW	M3X8 P=0.5 BLACK	1
19	NA	2084730084P	SCREW BND T+	M3X8(BND T+) (BLK)	1
20	NA	2084740084P	SCREW BND T+	SCREW BNDT+ M4*8(BND T+) BLACK	2
21	NA	2086240142P	SCREW P SW+	M4*14mm PSW+2N	4
22	C-00010086	2027276001P	DUST COVER	JC279E HINGE COVER ABS94HB G.L BLACK	1
23	M-SCW-0824-	2084730082P	SCREW BND T+	M3X8(BND T+)	1
24	NA	2071898500P	BRACKET FIX	JC279E HINGE SUPPORT SECC 1.0T	2
25	HW-00008083	2082630082P	SCREW	M3X8 P=0.5	2
26	HW-00008160	2084740082P	SCREW BND T+	M4X8(BND T+)	2
27	CB-00009349	2427404107P	WIRE	4/2+2P H/A 1007#24+CORE L=430mm	1
27	CB-00009350	2427404107T	WIRE	4/2+2P H/A 1007#24+CORE L=430mm	1
28	CB-00009351	2427430085P	WIRE	30/30P H/H 1571#28 L=220mm	1
28	CB-00009352	2427430085T	WIRE	30/30P H/H 1571#28 L=220mm	1
29	CB-00009353	2427408083P	WIRE	8/8P H/H 1061#26 L=610mm	1
29	CB-00009354	2427408083T	WIRE	8/8P H/H 1061#26 L=610mm	1
30	CB-00009355	2427412049P	WIRE	12/12P H/H 1061#26 L=220mm	1
30	CB-00009356	2427412049T	WIRE	12/12P H/H 1061#26 L=220mm	1
31	NA	2391310065P-01	SPEAKER	10W/6ohm (R) D.L	1
31	NA	2391310065P-06	SPEAKER	10W/6ohm (R) UDID (161673320020)	1
32	NA	2391310066P-01	SPEAKER	10W/6ohm (L) D.L	1
32	NA	2391310066P-06	SPEAKER	10W/6ohm (L) UDID (161673320010)	1

11. Recommended Spare Parts List

RECOMMENDED SPARE PARTS LIST (VT2730)

ViewSonic Model Number: **VS13154**

Rev: **1a**

Serial No. Prefix: **RUB**

Item	Category	Part Name	Description	ECR/ECN	ViewSonic P/N	Ref. P/N	Ref. NO	Compatibility	Location	Universal number#
1	Accessories: [Adapter,	Remote Controller	ViewSonic 35-key ATSC Remote (PHILIPS RC5 Code		A-00008696	2419200272P			H901	
2	Battery, Remote Controller,	Power Cord	USA WALL 1.83M BLACK		A-00005362	2427130046P			P951	
3		Main Board	PCB ASSY BLOCK (MAIN)		B-00010159	6201-7027003001			201	
4	PC Board Assembly: [All	Main Board	PCB ASSY BLOCK (CON)		B-00010160	6202-7027003001			202	
5	boards or PCBA]	Power Board	PCB ASSY BLOCK (POWER)		B-00010161	6204-7027376101			204	
6		IR Board	PCB ASSY BLOCK (IR)		B-00010162	6206-7027003001			206	
7		Front Bezel	VT2730 ABS94HB G.L BLACK		C-00010084	2603309557			26033	
8	Cabinets: [Front Panel, All	Back Cover	JC279E UA ABS94HB G.L BLACK		C-00010085	2022288602P-01			2C01	
9	Covers, Base Assembly]	Dust Cover	JC279E HINGE COVER ABS94HB G.L BLACK		C-00010086	2027276001P			6B04	
10		Wire	5/5P H/H 1007#26 L=330mm		CB-00009347	2427405024P			P703	
11		Wire	5/5P H/H 1007#26 L=330mm		CB-00009348	2427405024T			P703	
12		Wire	4/2+2P H/A 1007#24+CORE L=430mm		CB-00009349	2427404107P			P704	
13		Wire	4/2+2P H/A 1007#24+CORE L=430mm		CB-00009350	2427404107T			P704	
14	Cables: [All internal	Wire	30/30P H/H 1571#28 L=220mm		CB-00009351	2427430085P			P709	
15	Cables/wires]	Wire	30/30P H/H 1571#28 L=220mm		CB-00009352	2427430085T			P709	
16		Wire	8/8P H/H 1061#26 L=560mm		CB-00009353	2427408083P			P710	
17		Wire	8/8P H/H 1061#26 L=560mm		CB-00009354	2427408083T			P710	
18		Wire	12/12P H/H 1061#26 L=180mm		CB-00009355	2427412049P			P812	
19		Wire	12/12P H/H 1061#26 L=180mm		CB-00009356	2427412049T			P812	
20	Documentation: [Quick	User's Guide (CD ROM)	VIEWSONIC VT2730-M VS13154-1M UG		DC-00010261	2604208759			26042	
21	Electronic	Panel	M270H1-L01 (A) CMO(2/5/5,ND 8%)		E-00010012	2212024100P			V901	
22	Components:[LCD Panel,	Carton	VIEWSONIC VT2730-M VS13154-1M BOX		P-00010151	2011127065P			6P01	
23	Speaker, and all Electronic	Foam	JC279E EPS (L)		P-00010152	2012118901P			6P20	
24		Foam	JC279E EPS (R)		P-00010153	2012118902P			6P21	
25	Packing Material: [Carton,	Foam	JC279E EPS (B)		P-00010154	2012118903P			6P22	
26	Box, Foam, Bags]	Plastic Bag	800x800mm EPE/T=0.5mm+HDPE/T=0.02mm 26"		P-00008950	2013054065P			6P60	
27	Plastics: [Pedestal,	Stand	VT2730 ABS94HB G.L BLACK		PL-00008814	2603207568			26032	
28	stand/neck, Plate, Button,	Neck	JC279U ABS94HB G.L BLACK2028562601P		PL-00008818	2603807257			26038	

Remark 1: Above listed items are examples, supplier can expand the rows to add more necessary item

Remark 2: All revised RSPLs with newly added items or any change made should be highlighted and correlated with the ECN/ECR approved by ViewSonic Corporation. This is to eliminate repeated en

Notice: 1. For some special parts, some photos for identification purpose may be asked by reque

2. For all internal cables, there must be some wordings on the "Description" column about where the cable is used (connecting to which two part

3. All internal cables/wires should be put in the "Cables" category

4. All external cables should be put in the "Accessories" category

5. Parts relationship (Main/Second source or 1/2/3/4) should be added in the "Compatibility" column

6. If any part for certain product isn't listed in the form, supplier/PE can add it themselves and keep the part name unifie

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85	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
86	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
87	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
88	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
89	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
90	NA	2349900696P	CAP,CHIP SPEC	CHIP C 22u 1206/X5R/10V M T				1
91	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
92	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
93	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
94	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
95	NA	2345510396P	CAP CHIP	CS 0402/Y5V/50V 0.01u Z T				1
96	NA	2345510396P	CAP CHIP	CS 0402/Y5V/50V 0.01u Z T				1
97	NA	2345522396P	CAP CHIP	CS 0402/Y5V/50V 0.022u Z T				1
98	NA	2347710696P-01	CAP CHIP	CS 0805/Y5V/10V 10u Z T	DARFON			1
99	NA	2347710696P-02	CAP CHIP	CS 0805/Y5V/10V 10u Z T	TDK			1
100	NA	2347710696P-03	CAP CHIP	CS 0805/Y5V/10V 10u Z T	WALSIN			1
101	NA	2347710696P-04	CAP CHIP	CS 0805/Y5V/10V 10u Z T	MARUWA			1
102	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
103	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
104	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
105	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
106	NA	2345110296P	CAP CHIP	CS 0402/X7R/50V 1000p K T				1
107	NA	2345510396P	CAP CHIP	CS 0402/Y5V/50V 0.01u Z T				1
108	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
109	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
110	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
111	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
112	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
113	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
114	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
115	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
116	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
117	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
118	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
119	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
120	NA	2345747396P	CAP CHIP	CS 0402/Y5V/16V 0.047u Z T				1
121	NA	2345747396P	CAP CHIP	CS 0402/Y5V/16V 0.047u Z T				1
122	NA	2340127096P	CAP CHIP	CS 0402/NPO/50V 27p J T				1
123	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
124	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
125	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
126	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
127	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
128	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
129	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
130	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
131	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
132	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
133	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
134	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
135	NA	2347710696P-01	CAP CHIP	CS 0805/Y5V/10V 10u Z T	DARFON			1
136	NA	2347710696P-02	CAP CHIP	CS 0805/Y5V/10V 10u Z T	TDK			1
137	NA	2347710696P-03	CAP CHIP	CS 0805/Y5V/10V 10u Z T	WALSIN			1
138	NA	2347710696P-04	CAP CHIP	CS 0805/Y5V/10V 10u Z T	MARUWA			1
139	NA	2340127096P	CAP CHIP	CS 0402/NPO/50V 27p J T				1
140	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
141	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
142	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
143	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
144	NA	2347710696P-01	CAP CHIP	CS 0805/Y5V/10V 10u Z T	DARFON			1
145	NA	2347710696P-02	CAP CHIP	CS 0805/Y5V/10V 10u Z T	TDK			1
146	NA	2347710696P-03	CAP CHIP	CS 0805/Y5V/10V 10u Z T	WALSIN			1
147	NA	2347710696P-04	CAP CHIP	CS 0805/Y5V/10V 10u Z T	MARUWA			1
148	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
149	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
150	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
151	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
152	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
153	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
154	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
155	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
156	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
157	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
158	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
159	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
160	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
161	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
162	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
163	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
164	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
165	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
166	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
167	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1
168	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T	DARFON			1
169	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T	TDK			1
170	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T	WALSIN			1
171	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T	MARUWA			1

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346	NA	2345156196P	CAP CHIP	CS 0402/X7R/50V 560p K T			1
347	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V 330p J T			1
348	NA	2345156196P	CAP CHIP	CS 0402/X7R/50V 560p K T			1
349	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V 330p J T			1
350	NA	2345156196P	CAP CHIP	CS 0402/X7R/50V 560p K T			1
351	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V 330p J T			1
352	NA	2345156196P	CAP CHIP	CS 0402/X7R/50V 560p K T			1
353	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T DARFON			1
354	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T TDK			1
355	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T WALSIN			1
356	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T MARUWA			1
357	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T DARFON			1
358	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T TDK			1
359	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T WALSIN			1
360	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T MARUWA			1
361	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T DARFON			1
362	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T TDK			1
363	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T WALSIN			1
364	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T MARUWA			1
365	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V 330p J T			1
366	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V 330p J T			1
367	NA	2345156196P	CAP CHIP	CS 0402/X7R/50V 560p K T			1
368	NA	2345156196P	CAP CHIP	CS 0402/X7R/50V 560p K T			1
369	NA	2347710696P-01	CAP CHIP	CS 0805/Y5V/10V 10u Z T DARFON			1
370	NA	2347710696P-02	CAP CHIP	CS 0805/Y5V/10V 10u Z T TDK			1
371	NA	2347710696P-03	CAP CHIP	CS 0805/Y5V/10V 10u Z T WALSIN			1
372	NA	2347710696P-04	CAP CHIP	CS 0805/Y5V/10V 10u Z T MARUWA			1
373	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T DARFON			1
374	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T TDK			1
375	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T WALSIN			1
376	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T MARUWA			1
377	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V 330p J T			1
378	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V 330p J T			1
379	NA	2340122096P	CAP CHIP	CS 0402/NPO/50V 22p J T			1
380	NA	2347710696P-01	CAP CHIP	CS 0805/Y5V/10V 10u Z T DARFON			1
381	NA	2347710696P-02	CAP CHIP	CS 0805/Y5V/10V 10u Z T TDK			1
382	NA	2347710696P-03	CAP CHIP	CS 0805/Y5V/10V 10u Z T WALSIN			1
383	NA	2347710696P-04	CAP CHIP	CS 0805/Y5V/10V 10u Z T MARUWA			1
384	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V 1.0u K T DARFON			1
385	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V 1.0u K T TDK			1
386	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V 1.0u K T WALSIN			1
387	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V 1.0u K T MARUWA			1
388	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T DARFON			1
389	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T TDK			1
390	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T WALSIN			1
391	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T MARUWA			1
392	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T DARFON			1
393	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T TDK			1
394	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T WALSIN			1
395	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T MARUWA			1
396	NA	2347710696P-01	CAP CHIP	CS 0805/Y5V/10V 10u Z T DARFON			1
397	NA	2347710696P-02	CAP CHIP	CS 0805/Y5V/10V 10u Z T TDK			1
398	NA	2347710696P-03	CAP CHIP	CS 0805/Y5V/10V 10u Z T WALSIN			1
399	NA	2347710696P-04	CAP CHIP	CS 0805/Y5V/10V 10u Z T MARUWA			1
400	NA	2347710696P-01	CAP CHIP	CS 0805/Y5V/10V 10u Z T DARFON			1
401	NA	2347710696P-02	CAP CHIP	CS 0805/Y5V/10V 10u Z T TDK			1
402	NA	2347710696P-03	CAP CHIP	CS 0805/Y5V/10V 10u Z T WALSIN			1
403	NA	2347710696P-04	CAP CHIP	CS 0805/Y5V/10V 10u Z T MARUWA			1
404	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V 1.0u K T DARFON			1
405	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V 1.0u K T TDK			1
406	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V 1.0u K T WALSIN			1
407	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V 1.0u K T MARUWA			1
408	NA	2346110496P-01	CAP CHIP	CS 0603/X7R/50V 0.1u K T DARFON			1
409	NA	2346110496P-02	CAP CHIP	CS 0603/X7R/50V 0.1u K T TDK			1
410	NA	2346110496P-03	CAP CHIP	CS 0603/X7R/50V 0.1u K T WALSIN			1
411	NA	2346110496P-04	CAP CHIP	CS 0603/X7R/50V 0.1u K T MARUWA			1
412	NA	2346110496P-01	CAP CHIP	CS 0603/X7R/50V 0.1u K T DARFON			1
413	NA	2346110496P-02	CAP CHIP	CS 0603/X7R/50V 0.1u K T TDK			1
414	NA	2346110496P-03	CAP CHIP	CS 0603/X7R/50V 0.1u K T WALSIN			1
415	NA	2346110496P-04	CAP CHIP	CS 0603/X7R/50V 0.1u K T MARUWA			1
416	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V 0.1u K T DARFON			1
417	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V 0.1u K T TDK			1
418	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V 0.1u K T WALSIN			1
419	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V 0.1u K T MARUWA			1
420	NA	2345110296P	CAP CHIP	CS 0402/X7R/50V 1000p K T			1
421	NA	2346722496P-01	CAP CHIP	CS 0603/Y5V/16V 0.22u Z T DARFON			1
422	NA	2346722496P-02	CAP CHIP	CS 0603/Y5V/16V 0.22u Z T TDK			1
423	NA	2346722496P-03	CAP CHIP	CS 0603/Y5V/16V 0.22u Z T WALSIN			1
424	NA	2346722496P-04	CAP CHIP	CS 0603/Y5V/16V 0.22u Z T MARUWA			1
425	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V 1.0u K T DARFON			1
426	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V 1.0u K T TDK			1
427	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V 1.0u K T WALSIN			1
428	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V 1.0u K T MARUWA			1
429	NA	2346110296P	CAP CHIP	CS 0603/X7R/50V 1000p K T			1
430	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V 1.0u K T DARFON			1
431	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V 1.0u K T TDK			1
432	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V 1.0u K T WALSIN			1

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433	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	MARUWA			1
434	NA	2346110296P	CAP CHIP	CS 0603/X7R/50V	1000p	K T				1
435	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V	330p	J T				1
436	NA	2347647596P-01	CAP CHIP	CS 0805/Y5V/16V	4.7u	Z T	DARFON			1
437	NA	2347647596P-02	CAP CHIP	CS 0805/Y5V/16V	4.7u	Z T	TDK			1
438	NA	2347647596P-03	CAP CHIP	CS 0805/Y5V/16V	4.7u	Z T	WALSIN			1
439	NA	2347647596P-04	CAP CHIP	CS 0805/Y5V/16V	4.7u	Z T	MARUWA			1
440	NA	2346722496P-01	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	DARFON			1
441	NA	2346722496P-02	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	TDK			1
442	NA	2346722496P-03	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	WALSIN			1
443	NA	2346722496P-04	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	MARUWA			1
444	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	DARFON			1
445	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	TDK			1
446	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	WALSIN			1
447	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	MARUWA			1
448	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	DARFON			1
449	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	TDK			1
450	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	WALSIN			1
451	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	MARUWA			1
452	NA	2346722496P-01	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	DARFON			1
453	NA	2346722496P-02	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	TDK			1
454	NA	2346722496P-03	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	WALSIN			1
455	NA	2346722496P-04	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	MARUWA			1
456	NA	2346110296P	CAP CHIP	CS 0603/X7R/50V	1000p	K T				1
457	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	DARFON			1
458	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	TDK			1
459	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	WALSIN			1
460	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	MARUWA			1
461	NA	2346110296P	CAP CHIP	CS 0603/X7R/50V	1000p	K T				1
462	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V	330p	J T				1
463	NA	2346722496P-01	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	DARFON			1
464	NA	2346722496P-02	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	TDK			1
465	NA	2346722496P-03	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	WALSIN			1
466	NA	2346722496P-04	CAP CHIP	CS 0603/Y5V/16V	0.22u	Z T	MARUWA			1
467	NA	2346110496P-01	CAP CHIP	CS 0603/X7R/50V	0.1u	K T	DARFON			1
468	NA	2346110496P-02	CAP CHIP	CS 0603/X7R/50V	0.1u	K T	TDK			1
469	NA	2346110496P-03	CAP CHIP	CS 0603/X7R/50V	0.1u	K T	WALSIN			1
470	NA	2346110496P-04	CAP CHIP	CS 0603/X7R/50V	0.1u	K T	MARUWA			1
471	NA	2346110496P-01	CAP CHIP	CS 0603/X7R/50V	0.1u	K T	DARFON			1
472	NA	2346110496P-02	CAP CHIP	CS 0603/X7R/50V	0.1u	K T	TDK			1
473	NA	2346110496P-03	CAP CHIP	CS 0603/X7R/50V	0.1u	K T	WALSIN			1
474	NA	2346110496P-04	CAP CHIP	CS 0603/X7R/50V	0.1u	K T	MARUWA			1
475	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	DARFON			1
476	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	TDK			1
477	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	WALSIN			1
478	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	MARUWA			1
479	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	DARFON			1
480	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	TDK			1
481	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	WALSIN			1
482	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	MARUWA			1
483	NA	2345110296P	CAP CHIP	CS 0402/X7R/50V	1000p	K T				1
484	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	DARFON			1
485	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	TDK			1
486	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	WALSIN			1
487	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	MARUWA			1
488	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V	330p	J T				1
489	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	DARFON			1
490	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	TDK			1
491	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	WALSIN			1
492	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	MARUWA			1
493	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	DARFON			1
494	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	TDK			1
495	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	WALSIN			1
496	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	MARUWA			1
497	NA	2340133196P	CAP CHIP	CS 0402/NPO/50V	330p	J T				1
498	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	DARFON			1
499	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	TDK			1
500	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	WALSIN			1
501	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V	1.0u	K T	MARUWA			1
502	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	DARFON			1
503	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	TDK			1
504	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	WALSIN			1
505	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	MARUWA			1
506	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	DARFON			1
507	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	TDK			1
508	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	WALSIN			1
509	NA	2345310496P-04	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	MARUWA			1
510	NA	2345110296P	CAP CHIP	CS 0402/X7R/50V	1000p	K T				1
511	NA	2345110296P	CAP CHIP	CS 0402/X7R/50V	1000p	K T				1
512	NA	2364302196P	DIODE,SCHOTTKY(SMD)	SR36(3A/60V)	DO-214AA	MOSPEC				1
513	NA	2364303296P	DIODE,SCHOTTKY(SMD)	SM360B	DO-214AA	SECOS				1
514	NA	2364303396P	DIODE,SCHOTTKY(SMD)	SR36	DO-214AA	PEC				1
515	NA	2364302096P	DIODE,SCHOTTKY(SMD)	SK34B-TG-WS	DO-214AA	WILLAS				1
516	NA	2364303896P	DIODE,SCHOTTKY(SMD)	SM340B	DO-214AA	SECOS				1
517	NA	2364302196P	DIODE,SCHOTTKY(SMD)	SR36(3A/60V)	DO-214AA	MOSPEC				1
518	NA	2364303296P	DIODE,SCHOTTKY(SMD)	SM360B	DO-214AA	SECOS				1
519	NA	2364303396P	DIODE,SCHOTTKY(SMD)	SR36	DO-214AA	PEC				1

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520	NA	2364302096P	DIODE,SCHOTTKY(SMD)	SK34B-TG-WS D0-214AA	WILLAS			1
521	NA	2364303896P	DIODE,SCHOTTKY(SMD)	SM340B DO-214AA	SECOS			1
522	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C	GRANDE			1
523	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS			1
524	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C	ROHM			1
525	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
526	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
527	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
528	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
529	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
530	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
531	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
532	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
533	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
534	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
535	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
536	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
537	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
538	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
539	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
540	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
541	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
542	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
543	NA	2436247996P	VARISTOR ESD	V-PORT 0603 4.7P	M			1
544	NA	2436250996P	VARISTOR ESD	V-PORT 0603 5.0P	M			1
545	NA	2364303696P	DIODE,SCHOTTKY(SMD)	BAT54C SOT-23	PHILIPS(NXP)			1
546	NA	2364201296P	DIODE,RECT(SMD)	BAT54C-F SOT-23	DIODES			1
547	NA	2364303696P	DIODE,SCHOTTKY(SMD)	BAT54C SOT-23	PHILIPS(NXP)			1
548	NA	2364201296P	DIODE,RECT(SMD)	BAT54C-F SOT-23	DIODES			1
549	NA	2364303696P	DIODE,SCHOTTKY(SMD)	BAT54C SOT-23	PHILIPS(NXP)			1
550	NA	2364201296P	DIODE,RECT(SMD)	BAT54C-F SOT-23	DIODES			1
551	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C	GRANDE			1
552	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS			1
553	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C	ROHM			1
554	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C	GRANDE			1
555	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS			1
556	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C	ROHM			1
557	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C	GRANDE			1
558	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS			1
559	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C	ROHM			1
560	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C	GRANDE			1
561	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS			1
562	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C	ROHM			1
563	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C	GRANDE			1
564	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS			1
565	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C	ROHM			1
566	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C	GRANDE			1
567	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C	PHILIPS			1
568	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C	ROHM			1
569	NA	2213611203P-05	FUSE SMD	MF-NSMF110(1206 1.1A/6V)	BOURNS			1
570	NA	2360501196P	FET P-CH SMD	AP9435GM SO-8	APEC			1
571	NA	2360501796P	FET P-CH SMD	APM9435KC-TRG SO-8	Anpec			1
572	NA	2360502596P	FET P-CH SMD	STM9435 SO-8	SamHop			1
573	NA	2360503496P	FET P-CH SMD	UT9435HL SO-8	UTC			1
574	NA	2365335096P	LINEAR IC	AIC1117APY SOT-223	AIC			1
575	NA	2365814296P	IC LINEAR(SMD)	AP1117EL-13 SOT-223	DIODES			1
576	NA	2365336426P	LINEAR IC	LD1117AL-ADJ-A SOT-223	UTC			1
577	NA	2365335956P	LINEAR IC	MT1117-ADJ SOT-223	Ma Trix			1
578	NA	2365335936P	LINEAR IC	AP1534SG-13 SOP-8L	DIODES			1
579	NA	2365426946P	DIGITAL IC	AX3113 SOP-8L	AXELITE			1
580	NA	2365336356P	LINEAR IC	RS6513 SOP-8	ORISTER			1
581	NA	2365810296P	IC LINEAR(SMD)	AIC1084PM-ADJ TO-263	AIC			1
582	NA	2365808096P	IC LINEAR(SMD)	AP1084KL-13 TO-263	DIODES			1
583	NA	2365335856P	LINEAR IC	APE1084S(ADJ) TO-263	APEC			1
584	NA	2365336456P	LINEAR IC	UZ1084L-ADJ TO-263	UTC			1
585	NA	2360501196P	FET P-CH SMD	AP9435GM SO-8	APEC			1
586	NA	2360501796P	FET P-CH SMD	APM9435KC-TRG SO-8	Anpec			1
587	NA	2365335936P	LINEAR IC	AP1534SG-13 SOP-8L	DIODES			1
588	NA	2365426946P	DIGITAL IC	AX3113 SOP-8L	AXELITE			1
589	NA	2365336356P	LINEAR IC	RS6513 SOP-8	ORISTER			1
590	NA	2365810296P	IC LINEAR(SMD)	AIC1084PM-ADJ TO-263	AIC			1
591	NA	2365808096P	IC LINEAR(SMD)	AP1084KL-13 TO-263	DIODES			1
592	NA	2365335856P	LINEAR IC	APE1084S(ADJ) TO-263	APEC			1
593	NA	2365336456P	LINEAR IC	UZ1084L-ADJ TO-263	UTC			1
594	NA	2365335096P	LINEAR IC	AIC1117APY SOT-223	AIC			1
595	NA	2365814296P	IC LINEAR(SMD)	AP1117EL-13 SOT-223	DIODES			1
596	NA	2365336426P	LINEAR IC	LD1117AL-ADJ-A SOT-223	UTC			1
597	NA	2365335956P	LINEAR IC	MT1117-ADJ SOT-223	Ma Trix			1
598	NA	2365427428P	DIGITAL IC	MSB1501-LF LQFP-100	MSTAR			1
599	NA	2365427568P	DIGITAL IC	MSD3003EG-LF-S7 LFBGA-377	MSTAR			1
600	NA	2365114396P	MEMORY IC (FLASH)	MX25L3205DM2I-12G SOP-8	MXIC			1
601	NA	2365108696P	MEMORY IC	HT24LC04 SO-8	HOLTEK			1
602	NA	2365113497P	MEMORY IC (EEPROM)	AT24C04BN-SH-T SOIC-8(8S1)	ATMEL			1
603	NA	2365116988P	MEMORY IC(SDRAM)	EM68B16CWPA-25H FBGA-84	ETRONTECH			1
604	NA	2365116988P	MEMORY IC(SDRAM)	A3R12E4JFF-G8E FBGA-84	ZENTEL			1
605	NA	2365911696P	IC,DIGITAL SMD	24LC02B/SN SOIC-8	MICROCHIP			1
606	NA	2365426086P	DIGITAL IC	M24C02-WMN6TP SO-8	ST			1

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607	NA	2365112896P	MEMORY IC (EEPROM)	AT24C02BN-SH-T SOIC-8(8S1) ATMEL			1
608	NA	2365911696P	IC,DIGITAL SMD	24LC02B/SN SOIC-8 MICROCHIP			1
609	NA	2365426086P	DIGITAL IC	M24C02-WMN6TP SO-8 ST			1
610	NA	2365112896P	MEMORY IC (EEPROM)	AT24C02BN-SH-T SOIC-8(8S1) ATMEL			1
611	NA	2365911696P	IC,DIGITAL SMD	24LC02B/SN SOIC-8 MICROCHIP			1
612	NA	2365426086P	DIGITAL IC	M24C02-WMN6TP SO-8 ST			1
613	NA	2365112896P	MEMORY IC (EEPROM)	AT24C02BN-SH-T SOIC-8(8S1) ATMEL			1
614	NA	2365805996P	IC LINEAR(SMD)	LM358L SOP-8 UTC			1
615	NA	2365335826P	LINEAR IC	LM358DT SO-8 ST			1
616	NA	2365336196P	LINEAR IC	TPA3113D2PWPR TSSOP-28 TEXAS			1
617	NA	2365335996P	LINEAR IC	TPA6113A2 SOIC-8 TEXAS			1
618	NA	2365335096P	LINEAR IC	AIC1117APY SOT-223 AIC			1
619	NA	2365814296P	IC LINEAR(SMD)	AP1117EL-13 SOT-223 DIODES			1
620	NA	2365336426P	LINEAR IC	LD1117AL-ADJ-A SOT-223 UTC			1
621	NA	2365335956P	LINEAR IC	MT1117-ADJ SOT-223 Ma Trix			1
622	NA	2438000001P	HDCP KEY CODE	HDCP KEY CODE			1
623	NA	2379500196T	BEAD,HI-CURRENT	Z= 80 ohm 0805 I=6.0A			1
624	NA	2379560196T	BEAD,HI-CURRENT	Z= 600 ohm 0805 I=1.5A			1
625	NA	2370122016P	COIL CHOKE SMD	22uH 12*12*4.6 YC124RT220MS YOUTH			1
626	NA	2379560196T	BEAD,HI-CURRENT	Z= 600 ohm 0805 I=1.5A			1
627	NA	2379500196T	BEAD,HI-CURRENT	Z= 80 ohm 0805 I=6.0A			1
628	NA	2379500196P	BEAD,HI-CURRENT	Z= 80 ohm 0805 I=6.0A			1
629	NA	2370122016P	COIL CHOKE SMD	22uH 12*12*4.6 YC124RT220MS YOUTH			1
630	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
631	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
632	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
633	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
634	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
635	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
636	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
637	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
638	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
639	NA	2253200096P	RES CHIP 1/10W	RC 0603 1/10W 0 ohm J T			1
640	NA	2253200096P	RES CHIP 1/10W	RC 0603 1/10W 0 ohm J T			1
641	NA	2253200096P	RES CHIP 1/10W	RC 0603 1/10W 0 ohm J T			1
642	NA	2253200096P	RES CHIP 1/10W	RC 0603 1/10W 0 ohm J T			1
643	NA	2379560196T	BEAD,HI-CURRENT	Z= 600 ohm 0805 I=1.5A			1
644	NA	2379560196T	BEAD,HI-CURRENT	Z= 600 ohm 0805 I=1.5A			1
645	NA	2379500196T	BEAD,HI-CURRENT	Z= 80 ohm 0805 I=6.0A			1
646	NA	2379500196T	BEAD,HI-CURRENT	Z= 80 ohm 0805 I=6.0A			1
647	NA	2379500196T	BEAD,HI-CURRENT	Z= 80 ohm 0805 I=6.0A			1
648	NA	2379500196T	BEAD,HI-CURRENT	Z= 80 ohm 0805 I=6.0A			1
649	NA	2379500196T	BEAD,HI-CURRENT	Z= 80 ohm 0805 I=6.0A			1
650	NA	2379500196T	BEAD,HI-CURRENT	Z= 80 ohm 0805 I=6.0A			1
651	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603 I=3.0A			1
652	NA	2407640919P-02	SOCKET,SMD	HDMI 19P TOP CONCRAFT (099ACAB19CBBAC)			1
653	NA	2407640919P-02	SOCKET,SMD	HDMI 19P TOP CONCRAFT (099ACAB19CBBAC)			1
654	NA	2407640319P	SOCKET,SMD	HDMI 19P SINGATRON (2HE51UI-NB3)			1
655	NA	2407640519P-01	SOCKET,SMD	HDMI 19P SIDE LEOCO (8500S19KT1F)			1
656	NA	2407640519P-02	SOCKET,SMD	HDMI 19P SIDE CONCRAFT (099ABAC19CACCCEN)			1
657	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
658	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
659	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
660	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
661	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
662	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
663	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
664	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
665	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
666	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
667	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
668	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
669	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
670	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
671	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
672	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
673	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
674	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
675	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
676	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
677	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
678	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
679	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
680	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
681	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
682	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
683	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
684	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
685	NA	2360100696P	XISTOR PNP R SMD	PMBS3906 SOT-23 PHILIPS			1
686	NA	2360100796P	XISTOR PNP R SMD	MMBT3906-F SOT-23 DIODES			1
687	NA	2360100896P	XISTOR PNP R SMD	MMBT3906LT1G SOT-23 ON			1
688	NA	2360101396P	XISTOR PNP R SMD	LMBT3906LT1G SOT-23 LRC			1
689	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
690	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
691	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
692	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
693	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1

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694	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23	FAIRCHILD			1
695	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23	DIODES			1
696	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23	LRC			1
697	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23	PHILIPS			1
698	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23	FAIRCHILD			1
699	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23	DIODES			1
700	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23	LRC			1
701	NA	2360100696P	XISTOR PNP R SMD	PMBS3906 SOT-23	PHILIPS			1
702	NA	2360100796P	XISTOR PNP R SMD	MMBT3906-F SOT-23	DIODES			1
703	NA	2360100896P	XISTOR PNP R SMD	MMBT3906LT1G SOT-23	ON			1
704	NA	2360101396P	XISTOR PNP R SMD	LMBT3906LT1G SOT-23	LRC			1
705	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23	PHILIPS			1
706	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23	FAIRCHILD			1
707	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23	DIODES			1
708	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23	LRC			1
709	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23	PHILIPS			1
710	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23	FAIRCHILD			1
711	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23	DIODES			1
712	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23	LRC			1
713	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23	PHILIPS			1
714	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23	FAIRCHILD			1
715	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23	DIODES			1
716	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23	LRC			1
717	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23	PHILIPS			1
718	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23	FAIRCHILD			1
719	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23	DIODES			1
720	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23	LRC			1
721	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23	PHILIPS			1
722	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23	FAIRCHILD			1
723	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23	DIODES			1
724	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23	LRC			1
725	NA	2259100008P	RES CHIP NETWORKS	8P4R 1/16W(0402)	0ohm J P=0.5			1
726	NA	2259110108P	RES CHIP NETWORKS	8P4R 1/16W(0402)	100ohm J P=0.5			1
727	NA	2259110108P	RES CHIP NETWORKS	8P4R 1/16W(0402)	100ohm J P=0.5			1
728	NA	2259122008P	RES CHIP NETWORKS	8P4R 1/16W(0402)	22ohm J P=0.5			1
729	NA	2259122008P	RES CHIP NETWORKS	8P4R 1/16W(0402)	22ohm J P=0.5			1
730	NA	2259156008P	RES CHIP NETWORKS	8P4R 1/16W(0402)	56ohm J P=0.5			1
731	NA	2259122008P	RES CHIP NETWORKS	8P4R 1/16W(0402)	22ohm J P=0.5			1
732	NA	2259156008P	RES CHIP NETWORKS	8P4R 1/16W(0402)	56ohm J P=0.5			1
733	NA	2259156008P	RES CHIP NETWORKS	8P4R 1/16W(0402)	56ohm J P=0.5			1
734	NA	2259156008P	RES CHIP NETWORKS	8P4R 1/16W(0402)	56ohm J P=0.5			1
735	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
736	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
737	NA	2253147296P	RES CHIP 1/16W	RC 0402 1/16W	4.7Kohm J T			1
738	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
739	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
740	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
741	NA	2253147296P	RES CHIP 1/16W	RC 0402 1/16W	4.7Kohm J T			1
742	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
743	NA	2253182396P	RES CHIP 1/16W	RC 0402 1/16W	82Kohm J T			1
744	NA	2251111006P	RES CHIP 1/16W	RC 0402 1/16W	110 ohm F T			1
745	NA	2251118206P	RES CHIP 1/16W	RC 0402 1/16W	182 ohm F T			1
746	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm J T			1
747	NA	2253130296P	RES CHIP 1/16W	RC 0402 1/16W	3Kohm J T			1
748	NA	2253110496P	RES CHIP 1/16W	RC 0402 1/16W	100Kohm J T			1
749	NA	2251111006P	RES CHIP 1/16W	RC 0402 1/16W	110 ohm F T			1
750	NA	2251118206P	RES CHIP 1/16W	RC 0402 1/16W	182 ohm F T			1
751	NA	2251264916P	RES CHIP 1/10W	RC 0603 1/10W	6.49Kohm F T			1
752	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
753	NA	2251212116P	RES CHIP 1/10W	RC 0603 1/10W	1.21Kohm F T			1
754	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
755	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
756	NA	2251220006P	RES CHIP 1/10W	RC 0603 1/10W	200 ohm F T			1
757	NA	2251290996P	RES CHIP 1/10W	RC 0603 1/10W	90.9 ohm F T			1
758	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
759	NA	2253122296P	RES CHIP 1/16W	RC 0402 1/16W	2.2Kohm J T			1
760	NA	2253182396P	RES CHIP 1/16W	RC 0402 1/16W	82Kohm J T			1
761	NA	2253130296P	RES CHIP 1/16W	RC 0402 1/16W	3Kohm J T			1
762	NA	2253110496P	RES CHIP 1/16W	RC 0402 1/16W	100Kohm J T			1
763	NA	2253147296P	RES CHIP 1/16W	RC 0402 1/16W	4.7Kohm J T			1
764	NA	2251112116P	RES CHIP 1/16W	RC 0402 1/16W	1.21K ohm F T			1
765	NA	2251118216P	RES CHIP 1/16W	RC 0402 1/16W	1.82 Kohm F T			1
766	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
767	NA	2253122196P	RES CHIP 1/16W	RC 0402 1/16W	220 ohm J T			1
768	NA	2253122196P	RES CHIP 1/16W	RC 0402 1/16W	220 ohm J T			1
769	NA	2253147096P	RES CHIP 1/16W	RC 0402 1/16W	47 ohm J T			1
770	NA	2253122296P	RES CHIP 1/16W	RC 0402 1/16W	2.2Kohm J T			1
771	NA	2253110496P	RES CHIP 1/16W	RC 0402 1/16W	100Kohm J T			1
772	NA	2253147096P	RES CHIP 1/16W	RC 0402 1/16W	47 ohm J T			1
773	NA	2253110496P	RES CHIP 1/16W	RC 0402 1/16W	100Kohm J T			1
774	NA	2253147096P	RES CHIP 1/16W	RC 0402 1/16W	47 ohm J T			1
775	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
776	NA	2251118206P	RES CHIP 1/16W	RC 0402 1/16W	182 ohm F T			1
777	NA	2251111006P	RES CHIP 1/16W	RC 0402 1/16W	110 ohm F T			1
778	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
779	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm J T			1
780	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm J T			1

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955	NA	2253112396P	RES CHIP 1/16W	RC 0402 1/16W	12Kohm	J T				1
956	NA	2253112396P	RES CHIP 1/16W	RC 0402 1/16W	12Kohm	J T				1
957	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
958	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm	J T				1
959	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm	J T				1
960	NA	2253110196P	RES CHIP 1/16W	RC 0402 1/16W	100 ohm	J T				1
961	NA	2253182396P	RES CHIP 1/16W	RC 0402 1/16W	82Kohm	J T				1
962	NA	2253175296P	RES CHIP 1/16W	RC 0402 1/16W	7.5K ohm	J T				1
963	NA	2253115396P	RES CHIP 1/16W	RC 0402 1/16W	15Kohm	J T				1
964	NA	2253168296P	RES CHIP 1/16W	RC 0402 1/16W	6.8Kohm	J T				1
965	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
966	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
967	NA	2253182396P	RES CHIP 1/16W	RC 0402 1/16W	82Kohm	J T				1
968	NA	2253175296P	RES CHIP 1/16W	RC 0402 1/16W	7.5K ohm	J T				1
969	NA	2253115396P	RES CHIP 1/16W	RC 0402 1/16W	15Kohm	J T				1
970	NA	2253168296P	RES CHIP 1/16W	RC 0402 1/16W	6.8Kohm	J T				1
971	NA	2253147396P	RES CHIP 1/16W	RC 0402 1/16W	47Kohm	J T				1
972	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
973	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm	J T				1
974	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm	J T				1
975	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
976	NA	2253110496P	RES CHIP 1/16W	RC 0402 1/16W	100Kohm	J T				1
977	NA	2253210096P	RES CHIP 1/10W	RC 0603 1/10W	10 ohm	J T				1
978	NA	2253210096P	RES CHIP 1/10W	RC 0603 1/10W	10 ohm	J T				1
979	NA	2253210096P	RES CHIP 1/10W	RC 0603 1/10W	10 ohm	J T				1
980	NA	2251210026P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm	F T				1
981	NA	2253210096P	RES CHIP 1/10W	RC 0603 1/10W	10 ohm	J T				1
982	NA	2251211026P	RES CHIP 1/10W	RC 0603 1/10W	11Kohm	F T				1
983	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
984	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
985	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
986	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm	J T				1
987	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
988	NA	2253124396P	RES CHIP 1/16W	RC 0402 1/16W	24Kohm	J T				1
989	NA	2253122396P	RES CHIP 1/16W	RC 0402 1/16W	22Kohm	J T				1
990	NA	2253122396P	RES CHIP 1/16W	RC 0402 1/16W	22Kohm	J T				1
991	NA	2253110496P	RES CHIP 1/16W	RC 0402 1/16W	100Kohm	J T				1
992	NA	2253147396P	RES CHIP 1/16W	RC 0402 1/16W	47Kohm	J T				1
993	NA	2253124396P	RES CHIP 1/16W	RC 0402 1/16W	24Kohm	J T				1
994	NA	2253151396P	RES CHIP 1/16W	RC 0402 1/16W	51Kohm	J T				1
995	NA	2253110496P	RES CHIP 1/16W	RC 0402 1/16W	100Kohm	J T				1
996	NA	2253300096P	RES CHIP 1/8W	RC 0805 1/8 W	0 ohm	J T				1
997	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm	J T				1
998	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm	J T				1
999	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
1000	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
1001	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
1002	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	J T				1
1003	NA	2253147296P	RES CHIP 1/16W	RC 0402 1/16W	4.7Kohm	J T				1
1004	NA	2253147296P	RES CHIP 1/16W	RC 0402 1/16W	4.7Kohm	J T				1
1005	NA	2253147296P	RES CHIP 1/16W	RC 0402 1/16W	4.7Kohm	J T				1
1006	NA	2253115396P	RES CHIP 1/16W	RC 0402 1/16W	15Kohm	J T				1
1007	NA	2253156296P	RES CHIP 1/16W	RC 0402 1/16W	5.6Kohm	J T				1
1008	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm	J T				1
1009	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm	J T				1
1010	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm	J T				1
1011	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm	J T				1
1012	NA	2251110026P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	F T				1
1013	NA	2251110026P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm	F T				1
1014	NA	2202546300P	PCB MULTILAYER	JC279XX61UA	M/B	FR4*4	200*200mm			1
1015	NA	27201C15900	V-TYPE-MAIN	VT2730-M						1
1016	NA	2336047713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 470u/ 16V	8*12	P=5.0	T			1
1017	NA	2336022713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 220u/ 16V	8*7	P=5.0	T			1
1018	NA	2336047713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 470u/ 16V	8*12	P=5.0	T			1
1019	NA	2336022713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 220u/ 16V	8*7	P=5.0	T			1
1020	NA	2336022713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 220u/ 16V	8*7	P=5.0	T			1
1021	NA	2336310613P	CAP MINI ELE 105°C	EC 10u/ 16V	4*7	P=2.5	T			1
1022	NA	2336022713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 220u/ 16V	8*7	P=5.0	T			1
1023	NA	2336010713P	HI-LIFE LOW ESR E.CAP(3000hr)	EC 100u/ 16V	6.3*7	P=2.5	T			1
1024	NA	2336010713P	HI-LIFE LOW ESR E.CAP(3000hr)	EC 100u/ 16V	6.3*7	P=2.5	T			1
1025	NA	2336322613P	CAP MINI ELE 105°C	EC 22u/ 16V	4*7	P=2.5	T			1
1026	NA	2336347613P	CAP MINI ELE 105°C	EC 47u/ 16V	5*7	P=2.5	T			1
1027	NA	2336047713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 470u/ 16V	8*12	P=5.0	T			1
1028	NA	2336322613P	CAP MINI ELE 105°C	EC 22u/ 16V	4*7	P=2.5	T			1
1029	NA	2336322613P	CAP MINI ELE 105°C	EC 22u/ 16V	4*7	P=2.5	T			1
1030	NA	2336010713P	HI-LIFE LOW ESR E.CAP(3000hr)	EC 100u/ 16V	6.3*7	P=2.5	T			1
1031	NA	2336347613P	CAP MINI ELE 105°C	EC 47u/ 16V	5*7	P=2.5	T			1
1032	NA	2336347613P	CAP MINI ELE 105°C	EC 47u/ 16V	5*7	P=2.5	T			1
1033	NA	2336047713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 470u/ 16V	8*12	P=5.0	T			1
1034	NA	2336010713P	HI-LIFE LOW ESR E.CAP(3000hr)	EC 100u/ 16V	6.3*7	P=2.5	T			1
1035	NA	2336047713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 470u/ 16V	8*12	P=5.0	T			1
1036	NA	2336047713P	HI-LIFE LOW ESR E.CAP(4000hr)	EC 470u/ 16V	8*12	P=5.0	T			1
1037	NA	2336347613P	CAP MINI ELE 105°C	EC 47u/ 16V	5*7	P=2.5	T			1
1038	NA	27079C15900	SMT-SOLDER SIDE	VT2730-M						1
1039	NA	2345310496P-01	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	DARFON			1
1040	NA	2345310496P-02	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	TDK			1
1041	NA	2345310496P-03	CAP CHIP	CS 0402/X7R/16V	0.1u	K T	WALSIN			1

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1390	NA	2364201296P	DIODE,RECT(SMD)	BAT54C-F SOT-23	DIODES			1
1391	NA	2365911696P	IC,DIGITAL SMD	24LC02B/SN SOIC-8	MICROCHIP			1
1392	NA	2365426086P	DIGITAL IC	M24C02-WMN6TP SO-8	ST			1
1393	NA	2365112896P	MEMORY IC (EEPROM)	AT24C02BN-SH-T SOIC-8(8S1)	ATMEL			1
1394	NA	2253200096P	RES CHIP 1/10W	RC 0603 1/10W	0 ohm J T			1
1395	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603	I=3.0A			1
1396	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603	I=3.0A			1
1397	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603	I=3.0A			1
1398	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603	I=3.0A			1
1399	NA	2379512106T	BEAD,HI-CURRENT	Z= 120 ohm 0603	I=3.0A			1
1400	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23	PHILIPS			1
1401	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23	FAIRCHILD			1
1402	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23	DIODES			1
1403	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23	LRC			1
1404	NA	2253110196P	RES CHIP 1/16W	RC 0402 1/16W	100 ohm J T			1
1405	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
1406	NA	2251110016P	RES CHIP 1/16W	RC 0402 1/16W	1Kohm F T			1
1407	NA	2251110016P	RES CHIP 1/16W	RC 0402 1/16W	1Kohm F T			1
1408	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
1409	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm J T			1
1410	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm J T			1
1411	NA	2253110296P	RES CHIP 1/16W	RC 0402 1/16W	1K ohm J T			1
1412	NA	2253110196P	RES CHIP 1/16W	RC 0402 1/16W	100 ohm J T			1
1413	NA	2253110196P	RES CHIP 1/16W	RC 0402 1/16W	100 ohm J T			1
1414	NA	2253151196P	RES CHIP 1/16W	RC 0402 1/16W	510 ohm J T			1
1415	NA	2253151196P	RES CHIP 1/16W	RC 0402 1/16W	510 ohm J T			1
1416	NA	2253124296P	RES CHIP 1/16W	RC 0402 1/16W	2.4Kohm J T			1
1417	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
1418	NA	2253147296P	RES CHIP 1/16W	RC 0402 1/16W	4.7Kohm J T			1
1419	NA	2253147296P	RES CHIP 1/16W	RC 0402 1/16W	4.7Kohm J T			1
1420	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
1421	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
1422	NA	2253110196P	RES CHIP 1/16W	RC 0402 1/16W	100 ohm J T			1
1423	NA	2253110196P	RES CHIP 1/16W	RC 0402 1/16W	100 ohm J T			1
1424	NA	2253110396P	RES CHIP 1/16W	RC 0402 1/16W	10Kohm J T			1
1425	NA	2253147296P	RES CHIP 1/16W	RC 0402 1/16W	4.7Kohm J T			1
1426	NA	2253310096P	RES CHIP 1/8W	RC 0805 1/8W	10 ohm J T			1
1427	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
1428	NA	2253100096P	RES CHIP 1/16W	RC 0402 1/16W	0 ohm J T			1
1429	NA	27101C15900	MANUAL INSERT-MAIN	VT2730-M				1
1430	NA	2302122491P	CAP MTL	MEF 0.22uF/100V	P=5.0 J T			1
1431	NA	2302122491P	CAP MTL	MEF 0.22uF/100V	P=5.0 J T			1
1432	NA	2416905000P	UV TUNER	DTVA50FVH1019B	SAMSUNG			1
1433	NA	2371122001P	COIL CHOKE	DRWW8*10 0.35mm/25.5Ts	22uH			1
1434	NA	2371122001P	COIL CHOKE	DRWW8*10 0.35mm/25.5Ts	22uH			1
1435	NA	2371122001P	COIL CHOKE	DRWW8*10 0.35mm/25.5Ts	22uH			1
1436	NA	2371122001P	COIL CHOKE	DRWW8*10 0.35mm/25.5Ts	22uH			1
1437	NA	2404301111P	CONNECTOR	JST PH 12P SIDE	P=2.0 OR EQUAL			1
1438	NA	2404301111T	CONNECTOR	JST PH 12P SIDE	P=2.0 OR EQUAL			1
1439	NA	2404371003P	CONNECTOR	JST PH 4P TOP	P=2.0 OR EQUAL			1
1440	NA	2404371003T	CONNECTOR	JST PH 4P TOP	P=2.0 OR EQUAL			1
1441	NA	2404301107P	CONNECTOR	JST PH 8P SIDE	P=2.0 OR EQUAL			1
1442	NA	2404301107T	CONNECTOR	JST PH 8P SIDE	P=2.0 OR EQUAL			1
1443	NA	2407431915P-05	SOCKET	D-SUB 15P TOP BLUE	NIKETECH(1316S15-110071T)			1
1444	NA	2407431915T-05	SOCKET	D-SUB 15P TOP BLUE	NIKETECH			1
1445	NA	2405311510P-02	RCA JACK	1*5P TOP KYOYAKU	(WT-01015H2B-01H)			1
1446	NA	2405311510P-06	RCA JACK	1*5P TOP NICKTECH	(500-1505005401)			1
1447	NA	2405311410P-02	RCA JACK	1*3P+DIN 4P TOP KYOYAKU	(WT-01014H2B-01H)			1
1448	NA	2405311410P-06	RCA JACK	1*3P+DIN 4P TOP NIKETECH	(500-1403005502)			1
1449	NA	2405106900P-02	EARPHONE JACK	3.5 § EAR PHONE TOP (577C)	KOYOYAKU(WTJ-035-28ZSA01)			1
1450	NA	2405106900P-06	EARPHONE JACK	3.5 § EARPHONE TOP (577C)	NIKETECH(500-B05A000601)			1
1451	NA	2405105900P	EARPHONE JACK	EARPHON 3.5 § SIDE 284C(BLUE)	JIONGYA (CKX3.5-02B-01)			1
1452	NA	2405900300P-02	OTHERS JACK	DLT-1180A SIDE	EDISON			1
1453	NA	2405900300P-07	OTHERS JACK	504-2S03080041 SIDE	NIKETECH			1
1454	NA	2405312104P-02	RCA JACK	2P RED/WHITE TOP KYOYAKU	(WT-01012H2B-01H)			1
1455	NA	2405312104P-06	RCA JACK	2P RED/WHITE TOP NIKETECH	(500-1202005402)			1
1456	NA	2404301003P	CONNECTOR	JST XH 4P SIDE	P=2.5 OR EQUAL			1
1457	NA	2404301003T	CONNECTOR	JST XH 4P SIDE	P=2.5 OR EQUAL			1
1458	NA	2404312130P	CONNECTOR	30P 2R1L TOP	P=2.0mm 2046P**V			1
1459	NA	2404312130T	CONNECTOR	30P 2R1L TOP	P=2.0mm 2046P**V			1
1460	NA	2404380017P-04	CONNECTOR	USB UB01123-4HHS-4F(TYPE-A)	TOP FOXCONN			1
1461	NA	2369104001P-02	XTAL OSC	25.000MHZ/49US	0.1mW/20pF SKC			1
1462	NA	2369104001P	XTAL OSC	25.000MHZ/49US	0.1mW/20pF			1
1463	NA	2369103611P	XTAL OSC	12.0000MHZ/49US	0.1mW/20pF			1
1464	NA	2369103611P-02	XTAL OSC	12.0000MHZ/49US	0.1mW/20pF SKC			1
1465	NA	27102C15900	PROCESS-MAIN	VT2730-M				1
1466	NA	2439520202P	RADIATION CERAMIC	20*20*2mm	LENPRO			1
1467	NA	27022C15900	PCB-CON	VT2730-M				1
1468	NA	27042C15900	AUTO INSERT-CON	VT2730-M				1
1469	NA	27062C15900	SMT-CON	VT2730-M				1
1470	NA	2251247516P	RES CHIP 1/10W	RC 0603 1/10W	4.75Kohm F T			1
1471	NA	2251215026P	RES CHIP 1/10W	RC 0603 1/10W	15Kohm F T			1
1472	NA	2251247516P	RES CHIP 1/10W	RC 0603 1/10W	4.75Kohm F T			1
1473	NA	2251215026P	RES CHIP 1/10W	RC 0603 1/10W	15Kohm F T			1
1474	NA	2403703496P	TACT SWITCH	H=1.5mm F=260g	TOP			1
1475	NA	2403703496P	TACT SWITCH	H=1.5mm F=260g	TOP			1
1476	NA	2403703496P	TACT SWITCH	H=1.5mm F=260g	TOP			1

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1477	NA	2403703496P	TACT SWITCH	H=1.5mm F=260g TOP					1
1478	NA	2403703496P	TACT SWITCH	H=1.5mm F=260g TOP					1
1479	NA	2403703496P	TACT SWITCH	H=1.5mm F=260g TOP					1
1480	NA	2403703496P	TACT SWITCH	H=1.5mm F=260g TOP					1
1481	NA	2202547000P	PCB MULTILAYER	JC279XX K/B FR4*2 96,5*19.5mm					1
1482	NA	27089C15900	SMT-SOLDER SIDE-CON	VT2730-3					1
1483	NA	2404811805P	CONNECTOR(SMD)	5P TOP P=2.0mm CVILUX (C10105M1V)					1
1484	NA	2404811805T	CONNECTOR(SMD)	5P TOP P=2.0mm CVILUX (C10105M1V)					1
1485	NA	2404811808P	CONNECTOR(SMD)	8P TOP P=2.0mm CVILUX (C10108M1V)					1
1486	NA	2404811808T	CONNECTOR(SMD)	8P TOP P=2.0mm CVILUX (C10108M1V)					1
1487	NA	27023C15500	PCB POWER	JC279ET61KA					1
1488	NA	27043C15500	AUTO INSERT-POWER	JC279ET61KA					1
1489	NA	27063C15500	SMT-POWER	JC279ET61KA					1
1490	NA	2347110496P-01	CAP CHIP	CS 0805/X7R/50V 0.1u K T DARFON					1
1491	NA	2347110496P-02	CAP CHIP	CS 0805/X7R/50V 0.1u K T TDK					1
1492	NA	2347110496P-03	CAP CHIP	CS 0805/X7R/50V 0.1u K T WAL SIN					1
1493	NA	2347110496P-04	CAP CHIP	CS 0805/X7R/50V 0.1u K T MARUWA					1
1494	NA	2347122296P	CAP CHIP	CS 0805/X7R/50V 2200P K T					1
1495	NA	2341147196P	CAP CHIP TEMPERATURE 125°C	CS 0603/NPO/50V 470p J T					1
1496	NA	2349410496P-01	CAP CHIP	CS 1206/Y5V/50V 0.1u Z T DARFON					1
1497	NA	2349410496P-02	CAP CHIP	CS 1206/Y5V/50V 0.1u Z T TDK					1
1498	NA	2349410496P-03	CAP CHIP	CS 1206/Y5V/50V 0.1u Z T WAL SIN					1
1499	NA	2349410496P-04	CAP CHIP	CS 1206/Y5V/50V 0.1u Z T MARUWA					1
1500	NA	2347110496P-01	CAP CHIP	CS 0805/X7R/50V 0.1u K T DARFON					1
1501	NA	2347110496P-02	CAP CHIP	CS 0805/X7R/50V 0.1u K T TDK					1
1502	NA	2347110496P-03	CAP CHIP	CS 0805/X7R/50V 0.1u K T WAL SIN					1
1503	NA	2347110496P-04	CAP CHIP	CS 0805/X7R/50V 0.1u K T MARUWA					1
1504	NA	2349901796P	CAP CHIP SPEC	CHIP C 10u 1206/X5R/25V M T					1
1505	NA	2347410496P-01	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T DARFON					1
1506	NA	2347410496P-02	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T TDK					1
1507	NA	2347410496P-03	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T WAL SIN					1
1508	NA	2347410496P-04	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T MARUWA					1
1509	NA	2347410496P-01	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T DARFON					1
1510	NA	2347410496P-02	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T TDK					1
1511	NA	2347410496P-03	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T WAL SIN					1
1512	NA	2347410496P-04	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T MARUWA					1
1513	NA	2347410496P-01	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T DARFON					1
1514	NA	2347410496P-02	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T TDK					1
1515	NA	2347410496P-03	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T WAL SIN					1
1516	NA	2347410496P-04	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T MARUWA					1
1517	NA	2346110296P	CAP CHIP	CS 0603/X7R/50V 1000p K T					1
1518	NA	2346110296P	CAP CHIP	CS 0603/X7R/50V 1000p K T					1
1519	NA	2346110396P	CAP CHIP	CS 0603/X7R/50V 0.01u K T					1
1520	NA	2346110496P-01	CAP CHIP	CS 0603/X7R/50V 0.1u K T DARFON					1
1521	NA	2346110496P-02	CAP CHIP	CS 0603/X7R/50V 0.1u K T TDK					1
1522	NA	2346110496P-03	CAP CHIP	CS 0603/X7R/50V 0.1u K T WAL SIN					1
1523	NA	2346110496P-04	CAP CHIP	CS 0603/X7R/50V 0.1u K T MARUWA					1
1524	NA	2346110396P	CAP CHIP	CS 0603/X7R/50V 0.01u K T					1
1525	NA	2346110296P	CAP CHIP	CS 0603/X7R/50V 1000p K T					1
1526	NA	2346133396P	CAP CHIP	CS 0603/X7R/50V 0.033u K T					1
1527	NA	2341147196P	CAP CHIP TEMPERATURE 125°C	CS 0603/NPO/50V 470p J T					1
1528	NA	2346310596P-01	CAP CHIP	CS 0603/X7R/16V 1.0u K T DARFON					1
1529	NA	2346310596P-02	CAP CHIP	CS 0603/X7R/16V 1.0u K T TDK					1
1530	NA	2346310596P-03	CAP CHIP	CS 0603/X7R/16V 1.0u K T WAL SIN					1
1531	NA	2346310596P-04	CAP CHIP	CS 0603/X7R/16V 1.0u K T MARUWA					1
1532	NA	2346347496P-01	CAP CHIP	CS 0603/X7R/16V 0.47u K T DARFON					1
1533	NA	2346347496P-02	CAP CHIP	CS 0603/X7R/16V 0.47u K T TDK					1
1534	NA	2346347496P-03	CAP CHIP	CS 0603/X7R/16V 0.47u K T WAL SIN					1
1535	NA	2346347496P-04	CAP CHIP	CS 0603/X7R/16V 0.47u K T MARUWA					1
1536	NA	2347622596P-01	CAP CHIP	CS 0805/Y5V/16V 2.2u Z T DARFON					1
1537	NA	2347622596P-02	CAP CHIP	CS 0805/Y5V/16V 2.2u Z T TDK					1
1538	NA	2347622596P-03	CAP CHIP	CS 0805/Y5V/16V 2.2u Z T WAL SIN					1
1539	NA	2347622596P-04	CAP CHIP	CS 0805/Y5V/16V 2.2u Z T MARUWA					1
1540	NA	2347122396P	CAP CHIP	CS 0805/X7R/50V 0.022u K T					1
1541	NA	2347410496P-01	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T DARFON					1
1542	NA	2347410496P-02	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T TDK					1
1543	NA	2347410496P-03	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T WAL SIN					1
1544	NA	2347410496P-04	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T MARUWA					1
1545	NA	2347410496P-01	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T DARFON					1
1546	NA	2347410496P-02	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T TDK					1
1547	NA	2347410496P-03	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T WAL SIN					1
1548	NA	2347410496P-04	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T MARUWA					1
1549	NA	2346115296P	CAP CHIP	CS 0603/X7R/50V 1500p K T					1
1550	NA	2346115296P	CAP CHIP	CS 0603/X7R/50V 1500p K T					1
1551	NA	2347410496P-01	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T DARFON					1
1552	NA	2347410496P-02	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T TDK					1
1553	NA	2347410496P-03	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T WAL SIN					1
1554	NA	2347410496P-04	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T MARUWA					1
1555	NA	2347110296P	CAP CHIP	CS 0805/X7R/50V 1000p K T					1
1556	NA	2347110296P	CAP CHIP	CS 0805/X7R/50V 1000p K T					1
1557	NA	2347410496P-01	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T DARFON					1
1558	NA	2347410496P-02	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T TDK					1
1559	NA	2347410496P-03	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T WAL SIN					1
1560	NA	2347410496P-04	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T MARUWA					1
1561	NA	2347410496P-01	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T DARFON					1
1562	NA	2347410496P-02	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T TDK					1
1563	NA	2347410496P-03	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T WAL SIN					1

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1564	NA	2347410496P-04	CAP CHIP	CS 0805/Y5V/50V 0.1u Z T MARUWA			1
1565	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C GRANDE			1
1566	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C PHILIPS			1
1567	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C ROHM			1
1568	NA	2364500396P	DIODE,ZENER SMD	RLZ5.6B (5.45-5.73V) LL-34 ROHM			1
1569	NA	2364503996P	DIODE,ZENER SMD	BZV55-C5V6 (5.2~6.0V) SOD-80C PHILIPS			1
1570	NA	2364505616P	DIODE,ZENER SMD	TZMC5V6 (5.2-6.0V) SOD-80C VISHAY			1
1571	NA	2364505626P	DIODE,ZENER SMD	RLZ5.6C (5.61~5.91V) LL-34 ROHM			1
1572	NA	2364505676P	DIODE,ZENER SMD	BZV55-C5V6 (5.2~6.0V) SOD-80 GOODARK			1
1573	NA	2364500696P	DIODE,ZENER SMD	RLZ12B (11.44-12.03V) LL-34 ROHM			1
1574	NA	2364512026P	DIODE,ZENER SMD	BZV55-B12 2% SOD-80C PHILIPS			1
1575	NA	2364512036P	DIODE,ZENER SMD	ZMM55-C12 (11.4~12.7V) LL-34 WILLAS			1
1576	NA	2364500696P	DIODE,ZENER SMD	RLZ12B (11.44-12.03V) LL-34 ROHM			1
1577	NA	2364512026P	DIODE,ZENER SMD	BZV55-B12 2% SOD-80C PHILIPS			1
1578	NA	2364512036P	DIODE,ZENER SMD	ZMM55-C12 (11.4~12.7V) LL-34 WILLAS			1
1579	NA	2364600996P	DIODE,SWITCH SMD	BAV99 SOT23 DIODES			1
1580	NA	2364601096P	DIODE,SWITCH SMD	BAV99 SOT-23 PHILIPS			1
1581	NA	2364600996P	DIODE,SWITCH SMD	BAV99 SOT23 DIODES			1
1582	NA	2364601096P	DIODE,SWITCH SMD	BAV99 SOT-23 PHILIPS			1
1583	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C GRANDE			1
1584	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C PHILIPS			1
1585	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C ROHM			1
1586	NA	2364600496P-01	DIODE,SWITCH SMD	MM4148 SOD80C GRANDE			1
1587	NA	2364600496P-02	DIODE,RECT(SMD)	BAS32L SOD80C PHILIPS			1
1588	NA	2364600496P-03	DIODE,SWITCH	RLS4148-T11 SOD80C ROHM			1
1589	NA	2364601896P	DIODE,SWITCH SMD	BAV70 SOT-23 PHILIPS			1
1590	NA	2364601696P	DIODE,SWITCH SMD	BAV70 SOT-23 PEC			1
1591	NA	2364601796P	DIODE,SWITCH SMD	BAV70N3 SOT-23 CYStech			1
1592	NA	2364601896P	DIODE,SWITCH SMD	BAV70 SOT-23 PHILIPS			1
1593	NA	2364601696P	DIODE,SWITCH SMD	BAV70 SOT-23 PEC			1
1594	NA	2364601796P	DIODE,SWITCH SMD	BAV70N3 SOT-23 CYStech			1
1595	NA	2364600996P	DIODE,SWITCH SMD	BAV99 SOT23 DIODES			1
1596	NA	2364601096P	DIODE,SWITCH SMD	BAV99 SOT-23 PHILIPS			1
1597	NA	2364202696P	DIODE,RECT(SMD)	SS14 DO-214AC PEC			1
1598	NA	2364304196P	DIODE,SCHOTTKY(SMD)	SM140A SOD-214AC SECOS			1
1599	NA	2364304396P	DIODE,SCHOTTKY(SMD)	SS14 DO-214AC WILLAS			1
1600	NA	2364304496P	DIODE,SCHOTTKY(SMD)	B140 DO-214AC VISHAY			1
1601	NA	2364202696P	DIODE,RECT(SMD)	SS14 DO-214AC PEC			1
1602	NA	2364304196P	DIODE,SCHOTTKY(SMD)	SM140A SOD-214AC SECOS			1
1603	NA	2364304396P	DIODE,SCHOTTKY(SMD)	SS14 DO-214AC WILLAS			1
1604	NA	2364304496P	DIODE,SCHOTTKY(SMD)	B140 DO-214AC VISHAY			1
1605	NA	2364202696P	DIODE,RECT(SMD)	SS14 DO-214AC PEC			1
1606	NA	2364304196P	DIODE,SCHOTTKY(SMD)	SM140A SOD-214AC SECOS			1
1607	NA	2364304396P	DIODE,SCHOTTKY(SMD)	SS14 DO-214AC WILLAS			1
1608	NA	2364304496P	DIODE,SCHOTTKY(SMD)	B140 DO-214AC VISHAY			1
1609	NA	2364202696P	DIODE,RECT(SMD)	SS14 DO-214AC PEC			1
1610	NA	2364304196P	DIODE,SCHOTTKY(SMD)	SM140A SOD-214AC SECOS			1
1611	NA	2364304396P	DIODE,SCHOTTKY(SMD)	SS14 DO-214AC WILLAS			1
1612	NA	2364304496P	DIODE,SCHOTTKY(SMD)	B140 DO-214AC VISHAY			1
1613	NA	2365336146P	LINEAR IC	GR8870KG SOP-8 GREENERGY			1
1614	NA	2365336036P	LINEAR IC	OZ9937 SOP-16 O2-MICRO			1
1615	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
1616	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
1617	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
1618	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
1619	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
1620	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
1621	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
1622	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
1623	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
1624	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
1625	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
1626	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
1627	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
1628	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
1629	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
1630	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
1631	NA	2360100796P	XISTOR PNP R SMD	MMBT3906-F SOT-23 DIODES			1
1632	NA	2360100696P	XISTOR PNP R SMD	PMBS3906 SOT-23 PHILIPS			1
1633	NA	2360100596P	XISTOR PNP R SMD	MMBT3906-NL SOT23 FAIRCHILD			1
1634	NA	2360101396P	XISTOR PNP R SMD	LMBT3906LT1G SOT-23 LRC			1
1635	NA	2360606596P	FET N-CH(SMD)	2N7002E-T1-E3 SOT-23 VISHAY			1
1636	NA	2360608496P	FET N-CH(SMD)	2N7002K-T1-E3 SOT-23 VISHAY			1
1637	NA	2360609096P	FET N-CH(SMD)	2N7002K SOT-23 PHILIPS			1
1638	NA	2360609196P	FET N-CH(SMD)	2N7002LT1G SOT-23 ON			1
1639	NA	2360610796P	FET N-CH(SMD)	MTN7002ZHN3 SOT-23 CYStech			1
1640	NA	2360301296P	XISTOR NPN R SMD	MMBT3904-F SOT23 DIODES			1
1641	NA	2360301696P	XISTOR NPN R SMD	PMBS3904 SOT-23 PHILIPS			1
1642	NA	2360300896P	XISTOR NPN R SMD	MMBT3904K SOT-23 FAIRCHILD			1
1643	NA	2360302996P	XISTOR NPN R SMD	LMBT3904LT1G SOT-23 LRC			1
1644	NA	2360100796P	XISTOR PNP R SMD	MMBT3906-F SOT-23 DIODES			1
1645	NA	2360100696P	XISTOR PNP R SMD	PMBS3906 SOT-23 PHILIPS			1
1646	NA	2360100596P	XISTOR PNP R SMD	MMBT3906-NL SOT23 FAIRCHILD			1
1647	NA	2360101396P	XISTOR PNP R SMD	LMBT3906LT1G SOT-23 LRC			1
1648	NA	2360606596P	FET N-CH(SMD)	2N7002E-T1-E3 SOT-23 VISHAY			1
1649	NA	2360608496P	FET N-CH(SMD)	2N7002K-T1-E3 SOT-23 VISHAY			1
1650	NA	2360609096P	FET N-CH(SMD)	2N7002K SOT-23 PHILIPS			1

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1651	NA	2360609196P	FET N-CH(SMD)	2N7002LT1G SOT-23	ON			1
1652	NA	2360610796P	FET N-CH(SMD)	MTN7002ZHN3 SOT-23	CYStech			1
1653	NA	2360702296P	FET P&N-CH	STM8457 SO-8	SamHop			1
1654	NA	2360702396P	FET P&N-CH	MTC2804Q8 SOP-8	CYSTECH			1
1655	NA	2360702596P	FET P&N-CH	P2804NVG SOP-8	NIKO-SEM			1
1656	NA	2360702296P	FET P&N-CH	STM8457 SO-8	SamHop			1
1657	NA	2360702396P	FET P&N-CH	MTC2804Q8 SOP-8	CYSTECH			1
1658	NA	2360702596P	FET P&N-CH	P2804NVG SOP-8	NIKO-SEM			1
1659	NA	2253475496P	RES CHIP 1/4W	RC 1206 1/4 W	750Kohm J T			1
1660	NA	2253475496P	RES CHIP 1/4W	RC 1206 1/4 W	750Kohm J T			1
1661	NA	2253422396P	RES CHIP 1/4W	RC 1206 1/4 W	22Kohm J T			1
1662	NA	2253447096P	RES CHIP 1/4W	RC 1206 1/4 W	47 ohm J T			1
1663	NA	2253400096P	RES CHIP 1/4W	RC 1206 1/4 W	0 ohm J T			1
1664	NA	2253422296P	RES CHIP 1/4W	RC 1206 1/4 W	2.2Kohm J T			1
1665	NA	2253422196P	RES CHIP 1/4W	RC 1206 1/4 W	220 ohm J T			1
1666	NA	2253422196P	RES CHIP 1/4W	RC 1206 1/4 W	220 ohm J T			1
1667	NA	2253456196P	RES CHIP 1/4W	RC 1206 1/4 W	560 ohm J T			1
1668	NA	2253322296P	RES CHIP 1/8W	RC 0805 1/8 W	2.2Kohm J T			1
1669	NA	2253410296P	RES CHIP 1/4W	RC 1206 1/4 W	1.0Kohm J T			1
1670	NA	2251310036P	RES CHIP 1/8W	RC 0805 1/8 W	100Kohm F T			1
1671	NA	2251327416P	RES CHIP 1/8W	RC 0805 1/8 W	2.74Kohm F T			1
1672	NA	2251310016P	RES CHIP 1/8W	RC 0805 1/8 W	1Kohm F T			1
1673	NA	2251390906P	RES CHIP 1/8W	RC 0805 1/8 W	909 ohm F T			1
1674	NA	2251368126P	RES CHIP 1/8W	RC 0805 1/8 W	68.1 Kohm F T			1
1675	NA	2253310296P	RES CHIP 1/8W	RC 0805 1/8 W	1.0Kohm J T			1
1676	NA	2253310296P	RES CHIP 1/8W	RC 0805 1/8 W	1.0Kohm J T			1
1677	NA	2253422096P	RES CHIP 1/4W	RC 1206 1/4 W	22 ohm J T			1
1678	NA	2253422096P	RES CHIP 1/4W	RC 1206 1/4 W	22 ohm J T			1
1679	NA	2253456196P	RES CHIP 1/4W	RC 1206 1/4 W	560 ohm J T			1
1680	NA	2253456196P	RES CHIP 1/4W	RC 1206 1/4 W	560 ohm J T			1
1681	NA	2253447096P	RES CHIP 1/4W	RC 1206 1/4 W	47 ohm J T			1
1682	NA	2253447096P	RES CHIP 1/4W	RC 1206 1/4 W	47 ohm J T			1
1683	NA	2253456196P	RES CHIP 1/4W	RC 1206 1/4 W	560 ohm J T			1
1684	NA	2253456196P	RES CHIP 1/4W	RC 1206 1/4 W	560 ohm J T			1
1685	NA	2253422396P	RES CHIP 1/4W	RC 1206 1/4 W	22Kohm J T			1
1686	NA	2253422396P	RES CHIP 1/4W	RC 1206 1/4 W	22Kohm J T			1
1687	NA	2253247396P	RES CHIP 1/10W	RC 0603 1/10W	47Kohm J T			1
1688	NA	2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J T			1
1689	NA	2253210496P	RES CHIP 1/10W	RC 0603 1/10W	100Kohm J T			1
1690	NA	2253347396P	RES CHIP 1/8W	RC 0805 1/8 W	47Kohm J T			1
1691	NA	2253347296P	RES CHIP 1/8W	RC 0805 1/8 W	4.7Kohm J T			1
1692	NA	2253310096P	RES CHIP 1/8W	RC 0805 1/8W	10 ohm J T			1
1693	NA	2253310296P	RES CHIP 1/8W	RC 0805 1/8 W	1.0Kohm J T			1
1694	NA	2251290926P	RES CHIP 1/10W	RC 0603 1/10W	90.9Kohm F T			1
1695	NA	2251239226P	RES CHIP 1/10W	RC 0603 1/10W	39.2Kohm F T			1
1696	NA	2251217426P	RES CHIP 1/10W	RC 0603 1/10W	17.4Kohm F T			1
1697	NA	2251215036P	RES CHIP 1/10W	RC 0603 1/10W	150Kohm F T			1
1698	NA	2253210596P	RES CHIP 1/10W	RC 0603 1/10W	1.0Mohm J T			1
1699	NA	2253210296P	RES CHIP 1/10W	RC 0603 1/10W	1Kohm J T			1
1700	NA	2253275396P	RES CHIP 1/10W	RC 0603 1/10W	75Kohm J T			1
1701	NA	2253218396P	RES CHIP 1/10W	RC 0603 1/10W	18Kohm J T			1
1702	NA	2253200096P	RES CHIP 1/10W	RC 0603 1/10W	0 ohm J T			1
1703	NA	2253333496P	RES CHIP 1/8W	RC 0805 1/8 W	330Kohm J T			1
1704	NA	2253310296P	RES CHIP 1/8W	RC 0805 1/8 W	1.0Kohm J T			1
1705	NA	2251344206P	RES CHIP 1/8W	RC 0805 1/8 W	442 ohm F T			1
1706	NA	2253333396P	RES CHIP 1/8W	RC 0805 1/8 W	33Kohm J T			1
1707	NA	2253310296P	RES CHIP 1/8W	RC 0805 1/8 W	1.0Kohm J T			1
1708	NA	2253333396P	RES CHIP 1/8W	RC 0805 1/8 W	33Kohm J T			1
1709	NA	2253310296P	RES CHIP 1/8W	RC 0805 1/8 W	1.0Kohm J T			1
1710	NA	2253310596P	RES CHIP 1/8W	RC 0805 1/8 W	1Mohm J T			1
1711	NA	2253310396P	RES CHIP 1/8W	RC 0805 1/8 W	10Kohm J T			1
1712	NA	2253310596P	RES CHIP 1/8W	RC 0805 1/8 W	1Mohm J T			1
1713	NA	2253310396P	RES CHIP 1/8W	RC 0805 1/8 W	10Kohm J T			1
1714	NA	2253310596P	RES CHIP 1/8W	RC 0805 1/8 W	1Mohm J T			1
1715	NA	2253310396P	RES CHIP 1/8W	RC 0805 1/8 W	10Kohm J T			1
1716	NA	2253310596P	RES CHIP 1/8W	RC 0805 1/8 W	1Mohm J T			1
1717	NA	2253310396P	RES CHIP 1/8W	RC 0805 1/8 W	10Kohm J T			1
1718	NA	2253310396P	RES CHIP 1/8W	RC 0805 1/8 W	10Kohm J T			1
1719	NA	2253315396P	RES CHIP 1/8W	RC 0805 1/8 W	15Kohm J T			1
1720	NA	2253315196P	RES CHIP 1/8W	RC 0805 1/8W	150 ohm J T			1
1721	NA	2253315196P	RES CHIP 1/8W	RC 0805 1/8W	150 ohm J T			1
1722	NA	2253351296P	RES CHIP 1/8W	RC 0805 1/8 W	5.1Kohm J T			1
1723	NA	2253310396P	RES CHIP 1/8W	RC 0805 1/8 W	10Kohm J T			1
1724	NA	2253315396P	RES CHIP 1/8W	RC 0805 1/8 W	15Kohm J T			1
1725	NA	2253315196P	RES CHIP 1/8W	RC 0805 1/8W	150 ohm J T			1
1726	NA	2253315196P	RES CHIP 1/8W	RC 0805 1/8W	150 ohm J T			1
1727	NA	2253351296P	RES CHIP 1/8W	RC 0805 1/8 W	5.1Kohm J T			1
1728	NA	2253210396P	RES CHIP 1/10W	RC 0603 1/10W	10Kohm J T			1
1729	NA	2253300096P	RES CHIP 1/8W	RC 0805 1/8 W	0 ohm J T			1
1730	NA	2202145000P	PC BOARD	JC279XX61UA P/B FR1 200*140mm	V1.00 2009/11/20			1
1731	NA	2364500696P	DIODE,ZENER SMD	RLZ12B (11.44-12.03V)	LL-34 ROHM			1
1732	NA	2364512026P	DIODE,ZENER SMD	BZV55-B12 2% SOD-80C	PHILIPS			1
1733	NA	2364522016P	DIODE,ZENER SMD	MMSZ5251B SOD-123	PEC			1
1734	NA	2364522026P	DIODE,ZENER SMD	BZV55-C22 SOD-80C (LL-34)	PHILIPS(NXP)			1
1735	NA	2364522036P	DIODE,ZENER SMD	ZMM55-C22 SOD-80C (LL-34)	WILLAS			1
1736	NA	2364522096P	DIODE,ZENER SMD	RLZ22B LL-34	ROHM			1
1737	NA	27211C15500	V-TYPE-POWER	JC279ET61KA				1

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1738	NA	2284110291P	CAP CER	CC 1000P/1KV X7R P=5.0 K T			1
1739	NA	2284110291P	CAP CER	CC 1000P/1KV X7R P=5.0 K T			1
1740	NA	2284110291P	CAP CER	CC 1000P/1KV X7R P=5.0 K T			1
1741	NA	2284110291P	CAP CER	CC 1000P/1KV X7R P=5.0 K T			1
1742	NA	233534773P	CAP ELE LOW ESR 105°C(6000hr)	EC 470u/ 16V 10*13 P=5.0 T			1
1743	NA	2335747713P-01	HI-LIFE LOW ESR E.CAP(6000hr)	EC 470u/ 16V 10*13 P=5.0 T			1
1744	NA	233534773P	CAP ELE LOW ESR 105°C(6000hr)	EC 470u/ 16V 10*13 P=5.0 T			1
1745	NA	2336222645P	HI-LIFE LOW ESR E.CAP(3000hr)	EC 22u/ 50V 5*11 P=5.0 T			1
1746	NA	2365327191P-01	LINEAR IC	AMC431LPFTB TO-92 ADD (70°C 1%)			1
1747	NA	2365327191P-02	LINEAR IC	AP431VLA TO-92 DIODES (85°C 1%)			1
1748	NA	2365327191P-03	LINEAR IC	CM431GDCN TO-92 CHAMPION (85°C 0.7%)			1
1749	NA	2365327191P-04	LINEAR IC	AP431AVLA TO-92 DIODES (85°C 0.5%)			1
1750	NA	2365327191P-05	LINEAR IC	AMC431BLPFTB TO-92 ADD (70°C 0.5%)			1
1751	NA	2365327191P-06	LINEAR IC	TL431A3 TO-92 CYSTECH (85°C 0.5%)			1
1752	NA	2361320191P	XISTOR NPN R	HSC945-P TO-92 HSMC			1
1753	NA	2361302591P	XISTOR NPN R	2SC945-AP TO-92 NEC			1
1754	NA	2361313691P	XISTOR NPN R	KSC945CGTA TO-92 FAIRCHILD			1
1755	NA	2361320491P	XISTOR NPN R	STC945G TO-92 AUK			1
1756	NA	27212C15500	H-TYPE-POWER	JC279ET61KA			1
1757	NA	2363231995P	DIODE RECT	UF4007 DO-41 1000V/1A PEC			1
1758	NA	2363234995P	DIODE RECT	UF4007 DO-41 MOSPEC			1
1759	NA	2363235795P	DIODE RECT	UF1007 DO-41 DIODES			1
1760	NA	2363220395P	DIODE RECT	UF4004G DO-41 PEC			1
1761	NA	2363235195P	DIODE RECT	UPG10G DO-204AL ZOWIE			1
1762	NA	2363235695P	DIODE RECT	UF1004 DO-41 DIODES			1
1763	NA	2363235995P	DIODE RECT	UF1004G DO-41 CTC			1
1764	NA	2213125214P	FUSE	MRT-2.5A BEL			1
1765	NA	2213125222P	FUSE	MET-2.5A (Tapping) CONQUER			1
1766	NA	2213225215P	FUSE MICRO	SR-5-2.5A 2.5A/250V BUSSMANN			1
1767	NA	2428106175P	JUMPER (A.I)	0.6 ϕ *17.5mm			1
1768	NA	2428106050P	JUMPER (A.I)	ϕ 0.6*5.0mm			1
1769	NA	2428106125P	JUMPER (A.I)	ϕ 0.6*12.5mm			1
1770	NA	2428106100P	JUMPER (A.I)	0.6 ϕ *10.0mm			1
1771	NA	2428106125P	JUMPER (A.I)	ϕ 0.6*12.5mm			1
1772	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1773	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1774	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1775	NA	2428106200P	JUMPER (A.I)	0.6 ϕ *20mm			1
1776	NA	2428106200P	JUMPER (A.I)	0.6 ϕ *20mm			1
1777	NA	2428106200P	JUMPER (A.I)	0.6 ϕ *20mm			1
1778	NA	2428106200P	JUMPER (A.I)	0.6 ϕ *20mm			1
1779	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1780	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1781	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1782	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1783	NA	2428106125P	JUMPER (A.I)	ϕ 0.6*12.5mm			1
1784	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1785	NA	2428106125P	JUMPER (A.I)	ϕ 0.6*12.5mm			1
1786	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1787	NA	2428106200P	JUMPER (A.I)	0.6 ϕ *20mm			1
1788	NA	2428106150P	JUMPER (A.I)	0.6 ϕ *15.0mm			1
1789	NA	2428106150P	JUMPER (A.I)	0.6 ϕ *15.0mm			1
1790	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1791	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1792	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1793	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1794	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1795	NA	2428106100P	JUMPER (A.I)	0.6 ϕ *10.0mm			1
1796	NA	2428106100P	JUMPER (A.I)	0.6 ϕ *10.0mm			1
1797	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1798	NA	2428106125P	JUMPER (A.I)	ϕ 0.6*12.5mm			1
1799	NA	2428106125P	JUMPER (A.I)	ϕ 0.6*12.5mm			1
1800	NA	2428106100P	JUMPER (A.I)	0.6 ϕ *10.0mm			1
1801	NA	2428106075P	JUMPER (A.I)	0.6 ϕ *7.5mm			1
1802	NA	2428106100P	JUMPER (A.I)	0.6 ϕ *10.0mm			1
1803	NA	2428106175P	JUMPER (A.I)	0.6 ϕ *17.5mm			1
1804	NA	2428106125P	JUMPER (A.I)	ϕ 0.6*12.5mm			1
1805	NA	2233410495P	RES,CBN 1/4 S	RD 1/4WS 100Kohm J T52			1
1806	NA	2233410495P	RES,CBN 1/4 S	RD 1/4WS 100Kohm J T52			1
1807	NA	2239237425P	RES PRE 1/4S	RN 1/4WS 37.40K F T52 MINI			1
1808	NA	2362901595P	TRANSIENT VOLTAGE SUPPRESSOR	P6KE18A DO-15 CONCORD			1
1809	NA	2362901695P	TRANSIENT VOLTAGE SUPPRESSOR	P6KE18A DO-15 PEC			1
1810	NA	2362901795P	TRANSIENT VOLTAGE SUPPRESSOR	P6KE18A DO-15 SECOS			1
1811	NA	27111C15500	MANUAL INSERT-POWER	JC279ET61KA			1
1812	NA	2300947401P-01	X CAP MINI	X2 0.47u/275V P=15.0 M C EUROPTRONIC			1
1813	NA	2300947401P-02	X CAP MINI	X2 0.47u/275V P=15.0 M C CHIEFCON			1
1814	NA	2287133101P-01	CAP CER	Y1 330pF/250V P=10.0 K C SEC			1
1815	NA	2287133101P-02	CAP CER	Y1 330pF/250V P=10.0 K C WANSHENG			1
1816	NA	2287133101P-01	CAP CER	Y1 330pF/250V P=10.0 K C SEC			1
1817	NA	2287133101P-02	CAP CER	Y1 330pF/250V P=10.0 K C WANSHENG			1
1818	NA	2287122201P-01	CAP CER	Y1 2200pF/250V P=10.0 M C SEC			1
1819	NA	2287122201P-02	CAP CER	Y1 2200pF/250V P=10.0 M C WANSHENG			1
1820	NA	2357518108P-01	EC HI-RIPPLE 105C 400V(3000hr)	EC 180u/400V 20*40 P=10.0 S (ELITE)			1

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1821	NA	2357518108P-02	EC HI-RIPPLE 105C 400V(3000hr)	EC 180u/400V 20*40 P=10.0 S (HER-MEI)			1
1822	NA	2336015811P	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1500u/ 16V 10*21 P=5.0 C			1
1823	NA	2335815811P-01	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1500u/ 16V 10*20 P=5.0 C			1
1824	NA	2336015811P	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1500u/ 16V 10*21 P=5.0 C			1
1825	NA	2335815811P-01	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1500u/ 16V 10*20 P=5.0 C			1
1826	NA	2336010811P	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1000u/ 16V 10*16 P=5.0 C			1
1827	NA	2335710811P-01	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1000u/ 16V 10*16 P=5.0 C			1
1828	NA	2336010811P	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1000u/ 16V 10*16 P=5.0 C			1
1829	NA	2335710811P-01	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1000u/ 16V 10*16 P=5.0 C			1
1830	NA	2336010821P	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1000u/ 25V 10*25 P=5.0 C			1
1831	NA	2336010821P	HI-LIFE LOW ESR E.CAP(6000hr)	EC 1000u/ 25V 10*25 P=5.0 C			1
1832	NA	2336047731P	HI-LIFE LOW ESR E.CAP(6000hr)	EC 470u/ 35V 10*21 P=5.0 C			1
1833	NA	2335847731P-01	HI-LIFE LOW ESR E.CAP(6000HR)	EC 470u/ 35V 10*20 P=5.0 C			1
1834	NA	2275450901P	CAP CER	TC 5P/3KV SL P=7.5 J C			1
1835	NA	2275450901P	CAP CER	TC 5P/3KV SL P=7.5 J C			1
1836	NA	2275456001P	CAP CER	TC 56p/3KV SL P=7.5 J C			1
1837	NA	2275456001P	CAP CER	TC 56p/3KV SL P=7.5 J C			1
1838	NA	2275456001P	CAP CER	TC 56p/3KV SL P=7.5 J C			1
1839	NA	2275456001P	CAP CER	TC 56p/3KV SL P=7.5 J C			1
1840	NA	2368502900P	RECT BRIDGE	GBU4K 4A/800V MOSPEC			1
1841	NA	2368503100P	RECT BRIDGE	SBU4K 4A/800V PEC			1
1842	NA	2368503300P	RECT BRIDGE	GBU406 TSC			1
1843	NA	2368503200P	RECT BRIDGE	GBU4K 4A/800V WILLAS			1
1844	NA	2368503000P	RECT BRIDGE	GBU4K 4A/800V LRC			1
1845	NA	2362402200P	PHOTO COUPLR	K1010-3B (H4) COSMO			1
1846	NA	2362402400P	PHOTO COUPLR	TLP781F DIP-4 TOSHIBA			1
1847	NA	2362402500P	PHOTO COUPLR	TCET1116G DIP-4 VISHAY			1
1848	NA	2371110901P	COIL CHOKE	R4*12 1.0uH 1.0mm/8.5Ts			1
1849	NA	2371110901P	COIL CHOKE	R4*12 1.0uH 1.0mm/8.5Ts			1
1850	NA	2371110901P	COIL CHOKE	R4*12 1.0uH 1.0mm/8.5Ts			1
1851	NA	2379103500P	FERRITE CORE	0.5 ϕ /3Ts 6*10			1
1852	NA	2371157800P	COIL CHOKE	ET-24 0.5mm/32Ts*2 11.5mH			1
1853	NA	2371220422P	LINE FILTER CHOKE	ET-24 0.45mm 35+35/35+35Ts LI TAI (LF-008813)			1
1854	NA	2407414600P-04	SOCKET(AC INLET)	SS-120-C-PCB-S RONG FENG			1
1855	NA	2407414600P-03	SOCKET(AC INLET)	TU-301-SP-SAE-K3 TECX			1
1856	NA	2404371011P	CONNECTOR	JST PH 12P TOP P=2.0 OR EQUAL			1
1857	NA	2404380504P	CONNECTOR	CP0502P1HL1-LF CAILUX			1
1858	NA	2404380702P	CONNECTOR	FRH01-D3502E FRANCON			1
1859	NA	2404380303P	CONNECTOR	FOXCONN			1
1860	NA	2404380504P	CONNECTOR	CP0502P1HL1-LF CAILUX			1
1861	NA	2404380702P	CONNECTOR	FRH01-D3502E FRANCON			1
1862	NA	2404380303P	CONNECTOR	FOXCONN			1
1863	NA	2404380504P	CONNECTOR	CP0502P1HL1-LF CAILUX			1
1864	NA	2404380702P	CONNECTOR	FRH01-D3502E FRANCON			1
1865	NA	2404380303P	CONNECTOR	FOXCONN			1
1866	NA	2404380504P	CONNECTOR	CP0502P1HL1-LF CAILUX			1
1867	NA	2404380702P	CONNECTOR	FRH01-D3502E FRANCON			1
1868	NA	2404380303P	CONNECTOR	FOXCONN			1
1869	NA	2229401912P	THERMISTOR,NTC	5 ohm/5A P=7.5			1
1870	NA	2235524816P	RES,MTL 2	RS 2WS 0.24 ohm J P=7.0			1
1871	NA	2235456316P	RES,MTL 1	RS 1WS 56Kohm J P=7.0			1
1872	NA	2235510106P	RES,MTL 2	RS 2W 100ohm J P=7.0			1
1873	NA	2374234042P	XFORMER POWR	ETD34 450uH 0.6mm/21Ts LI-TAI(PT-011697-2)			1
1874	NA	2374303006P	XFORMER INVERTER	EEL-22 0.1*18/0.05mm 25+25/2100Ts CHENPING(T010027-6)			1
1875	NA	2371120401P	COIL CHOKE	EE-8.3D 250mH 0.06*386Ts			1
1876	NA	2371120401P	COIL CHOKE	EE-8.3D 250mH 0.06*386Ts			1
1877	NA	27112C15500	PROCESS-POWER	JC279ET61KA			1
1878	NA	2363304800P	DIODE SCHOTTKY	GMR10H200C TO-220FPAB GAMMA			1
1879	NA	2363305100P	DIODE SCHOTTKY	FCH10A20 TO-220AB NI			1
1880	NA	2363305200P	DIODE SCHOTTKY	SP10200 ITO-220 SECOS			1
1881	NA	2363308800P	DIODE SCHOTTKY	MBR10200FP TO-220FP CYStech			1
1882	NA	2363304200P	DIODE SCHOTTKY	GMR10H60C TO-220FPAB GAMMA			1
1883	NA	2363304100P	DIODE SCHOTTKY	SB1060FCT TO-220AB PEC			1
1884	NA	2363304600P	DIODE SCHOTTKY	FCQ10U06 TO-220AB NI			1
1885	NA	2363300400P	DIODE SCHOTTKY	FCQ10A06 10A/60V NI			1
1886	NA	2363305500P	DIODE SCHOTTKY	SP1060 10A/60V ITO-220 SECOS			1
1887	NA	2363308100P	DIODE SCHOTTKY	SBL1060CTP ITO-220S DIODES			1
1888	NA	2363308700P	DIODE SCHOTTKY	MBR1060FP TO-220FP CYStech			1
1889	NA	2363300500P	DIODE SCHOTTKY	FCH10A15 150V/10A TO-220AB NI			1
1890	NA	2363304000P	DIODE SCHOTTKY	FCH10U15 TO-220AB NI			1
1891	NA	2363304500P	DIODE SCHOTTKY	SB10150FCT TO-220AB PEC			1
1892	NA	2363305600P	DIODE SCHOTTKY	SP10150 10A/150V ITO-220 SECOS			1
1893	NA	2363305800P	DIODE SCHOTTKY	FSH10A15 TO-220AC NI			1
1894	NA	2361610000P	FET N-CH	AP09N70GI-A TO-220CMF APEC			1
1895	NA	2361613400P	FET N-CH	SMK0870F TO-220F AUK			1
1896	NA	2072263701P	HEAT SINK	JT229HP AL 45x23x10mm			1
1897	NA	2072263702P	HEAT SINK	N2230W-2M AL 45x23x10mm DIFFERENCE HOLE			1
1898	NA	2072263704P	HEAT SINK	JC279E AL 55*23*10			1
1899	NA	2072253903P	HEAT SINK	JT178DP SPTE T=1MM			1
1900	NA	2072253903P	HEAT SINK	JT178DP SPTE T=1MM			1
1901	NA	2105251400P	SPRING PLATE	SPTE T=0.3MM (GROUND PLATE) JS			1
1902	NA	2071898400P	BRACKET FIX	JC279E AC SOCKET BKT SECC 0.8T			1
1903	NA	2074165400P	HOLDER	JC279E NYLON66 94V2 LCC-34			1
1904	NA	2084730082P	SCREW BND T+	M3X8(BND T+)			1
1905	NA	2084730082P	SCREW BND T+	M3X8(BND T+)			1
1906	NA	2084730082P	SCREW BND T+	M3X8(BND T+)			2
1907	NA	27025C15900	PCB-IR	VT2730-M			1

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1908	NA	27121C15900	MANUAL INSERT-IR	VT2730-M		1
1909	NA	2363706608P-03	LED	BLU/ORG L=5.0mm BRIGHTTEK 1L0392A1B12MM503		1
1910	NA	2419301800P	RECEIV BLOCK	ECM-A36-N3F4 ECEL		1
1911	NA	2419302300P	RECEIV BLOCK	KSM-602TM2M KODENSHI		1
1912	NA	2404301104P	CONNECTOR	JST PH 5P SIDE P=2.0 OR EQUAL		1
1913	NA	2404301104T	CONNECTOR	JST PH 5P SIDE P=2.0 OR EQUAL		1
1914	NA	2202145700P	PC BOARD	VT2730 IR/B FR1 28.5*21mm		1
1915	NA	27015C15900	FRONT ASS'Y	VT2730-M		1
1916	NA	27081C15900	FRONT BEZEL	VT2730-M		1
1917	NA	2024291102P-01	FRONT BEZEL	VT2730 ABS94HB G.L BLACK		1
1918	NA	2033154701P	IR COVER	VT2730 PC LIMPID GE121R-21051		1
1919	NA	2053758901P	LED INDIC.-PWR	N52W LENS UT-0520T COLOR T57015		1
1920	NA	2051352800P	NAME PLATE	38.00MM*5.90MM		1
1921	NA	2044275801P	FUNCTION KEY	JC279E ABS94HB G.L BLACK		1
1922	NA	27181C15900	LCD PANEL ASS'Y	VT2730-M		1
1923	E-00010012	2212024100P	LCD PANEL	M270H1-L01 (A) CMO(2/5/5,ND 8%)		1
1924	NA	2071685402P	SHIELD PLATE	JC279E 61UA SECC 0.6T		1
1925	NA	2072055902P	METAL FITTG-I/O	JC279E 61UA SIDE IO SECC 0.6T		1
1926	NA	2054155802P	ORNAMENT	JC279E 61UA SIDE IO PC 0.5T ADHESIVE BLACK		1
1927	NA	2080003700P	SCREW SPE	ISZZTER001A M3*6L MSWR17/FZMY1		4
1928	NA	2080003700P	SCREW SPE	ISZZTER001A M3*6L MSWR17/FZMY1		2
1929	NA	2082630082P	SCREW	M3X8 P=0.5		2
1930	NA	2082630084P	SCREW	M3X8 P=0.5 BLACK		1
1931	NA	2084730084P	SCREW BND T+	M3X8(BND T+) (BLK)		1
1932	NA	2082630084P	SCREW	M3X8 P=0.5 BLACK		1
1933	NA	2082630084P	SCREW	M3X8 P=0.5 BLACK		1
1934	NA	2055613392P	LABEL	VSC HIGH VOLTAGE WARNING LABEL		0.015
1935	NA	27185C15900	FRONT OTHER	VT2730-M		1
1936	NA	2433310012P-01	SHIELDING FOAM	W10*H10.5*L15mm JOINSET		1
1937	NA	2433310012P	SHIELDING FOAM	W10*H10.5*L15mm		1
1938	NA	2061255900P	SPONGE	SPONGE BLACK20*15*25MM		1
1939	NA	2061255900P	SPONGE	SPONGE BLACK20*15*25MM		1
1940	CB-00009347	2427405024P	WIRE HARNESS	5/5P H/H 1007#26 L=330mm		1
1941	CB-00009348	2427405024T	WIRE HARNESS	5/5P H/H 1007#26 L=330mm		1
1942	CB-00009349	2427404107P	WIRE HARNESS	4/2+2P H/A 1007#24+CORE L=430mm		1
1943	CB-00009350	2427404107T	WIRE HARNESS	4/2+2P H/A 1007#24+CORE L=430mm		1
1944	CB-00009351	2427430085P	WIRE HARNESS	30/30P H/H 1571#28 L=220mm		1
1945	CB-00009352	2427430085T	WIRE HARNESS	30/30P H/H 1571#28 L=220mm		1
1946	CB-00009353	2427408083P	WIRE HARNESS	8/8P H/H 1061#26 L=560mm		1
1947	CB-00009354	2427408083T	WIRE HARNESS	8/8P H/H 1061#26 L=560mm		1
1948	CB-00009355	2427412049P	WIRE HARNESS	12/12P H/H 1061#26 L=180mm		1
1949	CB-00009356	2427412049T	WIRE HARNESS	12/12P H/H 1061#26 L=180mm		1
1950	NA	2391310065P-01	SPEAKER ASS'Y	10W/6ohm (R) D.L		1
1951	NA	2391310065P-06	SPEAKER ASS'Y	10W/6ohm (R) UDID (161673320020)		1
1952	NA	2391310066P-01	SPEAKER ASS'Y	10W/6ohm (L) D.L		1
1953	NA	2391310066P-06	SPEAKER ASS'Y	10W/6ohm (L) UDID (161673320010)		1
1954	NA	2084730082P	SCREW BND T+	M3X8(BND T+)		1
1955	NA	2071898500P	BRACKET FIX	JC279E HINGE SUPPORT SECC 1.0T		2
1956	NA	2082630082P	SCREW	M3X8 P=0.5		2
1957	NA	2084740082P	SCREW BND T+	M4X8(BND T+)		2
1958	NA	27016C15900	FINAL ASS'Y	VT2730-M		1
1959	NA	27086C15900	CABI BACK	VT2730-M		1
1960	C-00010085	2022288602P-01	CABI BACK	JC279E UA ABS94HB G.L BLACK		1
1961	NA	2055636117P	LABEL	VT2730-M VS13154-1M SMALL LABEL		1
1962	NA	2055617101P	LABEL	10*20 HI-POT TESTED OK		1
1963	NA	2055135674P	LABEL	VIEWSONIC VT2730-M VS13154-1M CMO		1
1964	NA	27186C15900	STAND ASS'Y	VT2730-M		1
1965	NA	2028269001P	STAND	VT2730 ABS94HB G.L BLACK		1
1966	NA	2028562601P	NECK	JC279U ABS94HB G.L BLACK		1
1967	NA	2106665900P	HINGE	JC279E U NECK HINGE 0-20° 50kg -CM (H.Y.)		1
1968	NA	2086240142P	SCREW P SW+	M4*14mm PSW+2N		4
1969	NA	2039820800P	FOOT PAD	ø20*3.0T SQUARE GRAIN BLK		4
1970	NA	27190C15900	FINAL OTHER	VT2730-M		1
1971	NA	2084730084P	SCREW BND T+	M3X8(BND T+) (BLK)		1
1972	NA	2084740084P	SCREW BND T+	SCREW BNDT+ M4*8(BND T+) BLACK		2
1973	NA	2086240142P	SCREW P SW+	M4*14mm PSW+2N		4
1974	C-00010086	2027276001P	DUST COVER	JC279E HINGE COVER ABS94HB G.L BLACK		1
1975	NA	27005C15900	ACCESSORY ASS'Y	VT2730-M		1
1976	NA	2005100500P	BATTERY_DRY	R03UG 1.5V (AAA) English TOSHIBA		2
1977	A-00008696	2419200272P	REMOTE CONTROL	ViewSonic 35-key ATSC Remote (PHILIPS RC5 Code)		1
1978	A-00005362	2427130046P	AC POWER CORD	USA WALL 1.83M BLACK		1
1979	NA	2001132184P	OWNER GUIDE	VIEWSONIC VT2730-M VS13154-1M UG		1
1980	NA	2002400048P	QUICK SETUP GUIDE	VIEWSONIC VT2730-M VS13154-1M QSG EN		1
1981	NA	2002400049P	QUICK SETUP GUIDE	VIEWSONIC VT2730-M VS13154-1M QSG FR		1
1982	NA	2001950220P	ATTACH SHEET	VIEWSONIC RETURN PREVENTION FLYER-LCD TV		1
1983	NA	201322536P	POLYETHY BAG	250mmX350mmX0.3t ADD>PE-LD<		1
1984	NA	27006C15900	PACKING ASS'Y	VT2730-M		1
1985	P-00010151	2011127065P	CARTON BOX	VIEWSONIC VT2730-M VS13154-1M BOX		1
1986	NA	2055632349P	LABEL	VT2730-M VS13154-1M CMO		1
1987	NA	2055613611P	LABEL	ENERGY STAR STICKER 11x11mm		1
1988	NA	2055613750P	LABEL	VSC DOLBY/HDMI/SRS-HD STICKER 68*8MM WHITE		1
1989	P-00010152	2012118901P	POLYFOAM	JC279E EPS (L)		1
1990	P-00010153	2012118902P	POLYFOAM	JC279E EPS (R)		1
1991	P-00010154	2012118903P	POLYFOAM	JC279E EPS (B)		1
1992	P-00008950	2013054065P	POLYETHY BAG	800x800mm EPE/T=0.5mm+HDPE/T=0.02mm 26"		1
1993	NA	2013228817P	POLYETHY BAG	300X400X0.03T mm LDPE		1

* *Reader's Response* *

Dear Readers:

Thank you in advance for your feedback on our Service Manual, which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic Corporation.

Assessment

A. What do you think about the content of **this** Service Manual?

<i>Unit</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Precautions and Safety Notices				
2. Specification				
3. Front Panel Function Control Description				
4. Circuit Description				
5. Adjusting Procedure				
6. Trouble Shooting Flow Chart				
7. Block Diagram				
8. Schematic Diagrams				
9. PCB Layout Diagrams				
10. Exploded View And Exploded Parts List				
11. Recommended Spare Parts List				

B. Are you satisfied with **this** Service Manual?

<i>Item</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinions or suggestions regarding **this** service manual?

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After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-839-7943.