

Service Manual



Model #: VIZIO L32

V, Inc

320A Kalmus Drive Costa Mesa, CA 92626

TEL : +714-668-0588 FAX :+714-668-9099

Top Confidential

Table of Contents

CONTENTS	PAGE
<i>Sections</i>	
1. Features	1-1
2. Specifications	2-1
3. On Screen Display	3-1
4. Factory Preset Timings	4-1
5. Pin Assignment	5-1
6. Main Board I/O Connections	6-1
7. Theory of Circuit Operation	7-1
8. Waveforms	8-1
9. Trouble Shooting	9-1
10. BLOCK DIAGRAM	10-1
11. Spare Parts List	11-1
12. Complete Parts List (AUO PANEL)	12-1
13. Complete Parts List (SHARP PANEL)	13-1

Appendix

1. Main Board Circuit Diagram
2. Main Board PCB Layout
3. Assembly Explosion Drawing

Block Diagram

COPYRIGHT © 2000 V, INC. ALL RIGHTS RESERVED.

IBM and IBM products are registered trademarks of International Business Machines Corporation.

Macintosh and Power Macintosh are registered trademarks of Apple Computer, Inc.

VINC and VINC products are registered trademarks of V, Inc.

VESA, EDID, DPMS and DDC are registered trademarks of Video Electronics Standards Association (VESA).

Energy Star is a registered trademark of the US Environmental Protection Agency (EPA).

No part of this document may be copied, reproduced or transmitted by any means for any purpose without prior written permission from VINC.

FCC INFORMATION

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause unacceptable interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures -- reorient or relocate the receiving antenna; increase the separation between equipment and receiver; or connect the into an outlet on a circuit different from that to which the receiver is connected.

FCC WARNING

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to Amtrak products will void the user's authority to operate this device. Thus VINC Will not be held responsible for the product and its safety.

CE CERTIFICATION

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility."

SAFETY CAUTION

Use a power cable that is properly grounded. Always use the AC cords as follows – USA (UL); Canada (CSA); Germany (VDE); Switzerland (SEV); Britain (BASEC/BS); Japan (Electric Appliance Control Act); or an AC cord that meets the local safety standards.

Chapter 1 Features

1. Built in TV channel selector for TV viewing
2. Simulatnueous display of PC and TV images
3. Connectable to PC's analog RGB port
4. Built in s-video, HDTV, composite video, HDMI and TV out
5. Built in auto adjust function for automatic adjument of screen display
6. Smoothing function enables display of smooth texts and graphics even if image withresolution lower than 1366x768 is magnified
7. Picture In Picture (PIP) funtion to show TV or VCR images
8. Power saving to reduce consumption power too less than 3W
9. On Screen Display: user can define display mode (i.e. color, brightness, contrast, sharpness), sound setting, PIP, TV channel program, aspect and gamma or reset all setting.

Chapter 2 Specification

1. LCD CHARACTERISTICS

Type: WXGA TFT LCD

Size: 31.5 inch

Display Size: 31.5 inches (80.039mm) diagonal

Outline Dimension: 780.0(H) x 450.0(V) x 51.0-(D) mm (Typ.)

Pixel Pitch: 0.51075mm x 0.51075mm

Pixel Format: 1366 horiz. By 768 vert. Pixels RGB strip arrangement

Contrast ratio: 800(Typ)

Luminance, White: 500 cd/m² (Typ)

Display Operating Mode: normally Black

Surface Treatment: Anti glare, low reflection coating; hard coating: 2H;

Haze: 23+/-5%

2. OPTICAL CHARACTERISTICS

Viewing Angle by Contrast Ratio °: 10

Left: 85°typ.

Right: 85°typ.

Top: 85°typ.

Bottom: 85°typ.

3. SIGNAL (Refer to the Timing Chart)

Sync Signal

1) Type: TMDS

2) Input Voltage Level: 90~240 Vac, 50/ 60 Hz

3) Input Impedance: 50Ω/ Signal line

4. Input Connectors
RJ11, D-SUB15PIN (MINI, 3rows), Headphone, HDMI, CONNECT, RCAX3 (component),

RCAX2 (AUDIO in), RCAX3 (composite), RCAX2 (AUDIO in)

5. POWER SUPPLY

Power Consumption: 180W MAX Power OFF: to less than 3W MAX

6. Speaker

Output 8Ω/10W (max) X2

7. ENVIRONMENT

1. Operating Temperature: 5c~35c (Ambient)
2. Relative Humidity: Ta= 35 °C, 90%RH (Non-condensing)

3. Altitude: 0 - 14,000 feet (4267.2m)(Non-Operating)

8. DIMENSIONS (Physical dimension)

Width: 818.3mm.

Depth: 280.5mm

Height: 643.8mm

9. WEIGHT (Physical weight)

- a. Net: 19.5kgs
- b. Gross: 23.5kgs

Precaution

Please pay attention to the followings when you use this TFT LCD module.

9-1. MOUNTING PRECAUTIONS

- (1) You must mount a module using holes arranged in four corners or four sides.
- (2) You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.
- (3) Please attach the surface transparent protective plate to the surface in order to protect the polarizer. Transparent protective plate should have sufficient strength in order to resist external force.
- (4) You should adopt radiation structure to satisfy the temperature specification.
- (5) Acetic acid type and chlorine type materials for the cover case are not desirable because the former generates corrosive gas of attacking the polarizer at high temperature and the latter causes circuit break by electro-chemical reaction.
- (6) Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment. Do not touch the surface of polarizer for bare hand or greasy cloth.(Some cosmetics are detrimental to the polarizer.)

-
- (7) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaked with petroleum benzene. Normal-hexane is recommended for cleaning the adhesives used to attach front / rear polarizers. Do not use acetone, toluene and alcohol because they cause chemical damage to the polarizer.
 - (8) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
 - (9) Do not open the case because inside circuits do not have sufficient strength.

9-2. OPERATING PRECAUTIONS

- (1) The spike noise causes the mis-operation of circuits. It should be lower than following voltage : $V=\pm 200\text{mV}$ (Over and under shoot voltage)
- (2) Response time depends on the temperature.(In lower temperature, it becomes longer.)
- (3) Brightness depends on the temperature. (In lower temperature, it becomes lower.)
And in lower temperature, response time(required time that brightness is stable after turned on) becomes longer.
- (4) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
- (5) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (6) Module has high frequency circuits. Sufficient suppression to the electromagnetic interference shall be done by system manufacturers. Grounding and shielding methods may be important to minimize the interference.

9-3. HANDLING PRECAUTIONS FOR PROTECTION

- (1) The protection film is attached to the bezel with a small masking tape. When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- (2) When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of glue still on the bezel after the protection film is peeled off.
- (3) You can remove the glue easily. When the glue remains on the bezel surface or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.

Chapter 3 On Screen Display

Main unit button

Power
Input
MENU
CH ▲
CH ▼
VOL +
VOL -
MENU / EXIT

TV Source

A. PICTURE ADJUST :

- a. PICTURE MODE (USER/ VIVID1 /VIVID2 / VIVID3)
- b. Adjust the BACKLIGHT (0~100)
- c. Adjust the BRIGHTNESS (0~100)
- d. Adjust the CONTRAST (0~100)
- e. Adjust the COLOR (saturation)(0~100)
- f. Adjust the TINT (hue) (0~100)
- g. Adjust the SHARPNESS (0~100)
- h. CLOSED CAPTION (OFF/CC1/CC2/CC3/CC4/TT1/TT2/TT3/TT4)

B. AUDIO ADJUST :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (0~100)
- e. SURROUND (ON/OFF)
- f. REVERB (OFF, CONCERT, LIVINGROOM, HALL, ARENA)
- g. MUTE (ON/OFF)
- h. SPEAKERS (ON/OFF)

C. TV TUNER SETUP :

- a. SOUND (SAP/MONO/STEREO)
- b. TV/CABLE (TV/CABLE)
- c. CHANNEL SEARCH (RUN)
- d. SET CHANNEL
- e. SKIP CHANNEL (YES/NO)

D. PARENTAL CONTROL :

- a. PARENT LOCK ENABLE (ON/OFF)
- b. TV RATING
- c. MOVIE RATING
- d. ACCESS CODE EDIT

E. PIP SETUP :

- a. STYLE (OFF/PIP/POP)
- b. Source (AV1、AV2、AV3、ANALOGHD1、ANALOG HD2、DIGITAL HD RGB)
- c. SIZE (SMALL (20%)/MEDIUM (30%)/LARGE (40%))
- d. POSITION (TOP LEFT/TOP CENTER/TOP RIGHT/MIDDLE LEFT/MIDDLE RIGHT/BOTTOM LEFT/BOTTOM CENTER/BOTTOM RIGHT)

F. SPECIAL FEATURES :

- a. LANGUAGE (ENGLISH/FRANCE/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- c. WIDE FORMAT (NORMAL/WIDE/ZOOM、PANORAMIC)
- d. RESET ALL SETTING

PC Analog Mode

A. PICTURE ADJUST :

- a. AUTO PICTURE (Run)
- b. Adjust the BACKLIGHT (0~100)
- c. Adjust the BRIGHTNESS (0~100)
- d. Adjust the CONTRAST (0~100)
- e. Adjust the V-POSITION (0~100)
- f. Adjust the H-SIZE (0~100)
- g. Adjust the H-POSITION (0~100)
- h. Adjust the FINETUNE (0~100)

CONFIDENTIAL – DO NOT COPY

Page 3-2

File No. SG-0168

B. COLOR TEMP :

- a. COLOR TEMP. (User, 5000K, 6500K, 9300K)
- b. RED (0~255)
- c. GREEN (0~255)
- d. BLUE (0~255)

C. AUDIO ADJUST :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (0~100)
- e. SURROUND (ON/OFF)
- f. REVERB (OFF, CONCERT, LIVING ROOM, HALL, ARENA)
- g. MUTE (ON/OFF)
- h. SPEAKERS (ON/OFF)

D. PIP SETUP :

- a. STYLE (OFF/PIP/POP)
- b. SOURCE (AV1、AV2、AV3、TV)
- c. SIZE (SMALL (20%)/MEDIUM (30%)/LARGE (40%))
- d. POSITION (TOP LEFT/TOP CENTER/TOP RIGHT/MIDDLE LEFT/MIDDLE RIGHT/BOTTOM LEFT/BOTTOM CENTER/BOTTOM RIGHT)

E. SPECIAL FEATURES :

- a. LANGUAGE (ENGLISH/FRENCH/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- c. WIDE FORMAT (WIDE)
- d. RESET ALL SETTING

DIGITAL HD MODE

A. PICTURE :

- a. PICTURE MODE (USER/ VIVID1 /VIVID2 / VIVID3)
- b. Adjust the BACKLIGHT (0~100)
- c. Adjust the BRIGHTNESS (0~100)
- d. Adjust the CONTRAST (0~100)
- e. Adjust the COLOR (saturation)(0~100)
- f. Adjust the TINT (hue) (0~100)
- g. Adjust the SHARPNESS (0~100)

B. AUDIO ADJUST :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (0~100)
- e. SURROUND (ON/OFF)
- f. REVERB (OFF, CONCERT, LIVING ROOM, HALL, ARENA)
- g. MUTE (ON/OFF)
- h. SPEAKERS (ON/OFF)

C. PARENTAL CONTROL :

- a. PARENT LOCK ENABLE (ON/OFF)
- b. TV RATING
- c. MOVIE RATING
- d. ACCESS CODE EDIT

D. PIP SETUP :

- a. STYLE (OFF/PIP/POP)
- b. SOURCE (AV1 、 AV2 、 AV3 、 TV)
- c. SIZE (SMALL (20%)/MEDIUM (30%)/LARGE (40%))
- d. POSITION (TOP LEFT/TOPCENTER/TOP RIGHT/MIDDLELEFT/MIDDLE
RIGHT/BOTTOMLEFT/BOTTOM CENTER/BOTTOMRIGHT)

E. SPECIAL FEATURES :

- a. LANGUAGE (ENGLISH/FRENCE/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- c. WIDE FORMAT (NORMAL/WIDE/ZOOM、PANORAMIC)
- d. RESET ALL SETTING

Video Sources :

AV1、AV2、AV3、ANALOG HD1、ANALOG HD2

A. PICTURE :

- a. PICTURE MODE (USER/ VIVID1 /VIVID2 / VIVID3)
- b. Adjust the BACKLIGHT (0~100)
- c. Adjust the BRIGHTNESS (0~100)
- d. Adjust the CONTRAST (0~100)
- e. Adjust the COLOR (saturation)(0~100)
- f. Adjust the TINT (hue) (0~100)
- g. Adjust the SHARPNESS (0~100)
- h. CLOSED CAPTION (OFF/CC1/CC2/CC3/CC4/TT1/TT2/TT3/TT4)

B. AUDIO ADJUST :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (0~100)
- e. SURROUND (ON/OFF)
- f. REVERB (OFF, CONCERT, LIVING
ROOM, HALL, ARENA)
- g. MUTE (ON/OFF)
- h. SPEAKERS (ON/OFF)

C. PARENTAL CONTROL :

- a. PARENT LOCK ENABLE (ON/OFF)
- b. TV RATING
- c. MOVIE RATING
- d. ACCESS CODE EDIT

D. PIP SETUP :

- a. STYLE (OFF/PIP/POP)
- b. SOURCE (AV2、AV3、ANALOGHD1、ANALOG HD2、DIGITAL HD、RGB、TV)
- c. SIZE (SMALL (20%)/MEDIUM (30%)/LARGE (40%))
- d. POSITION (TOP LEFT/TOPCENTER/TOP RIGHT/MIDDLE
LEFT/MIDDLE RIGHT/BOTTOMLEFT/BOTTOM ENTER/BOTTOM RIGHT)

E. SPECIAL FEATURES :

- a. LANGUAGE (ENGLISH/FRANCE/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- c. WIDE FORMAT (NORMAL/WIDE/ZOOM、PANORAMIC)
- d. RESET ALL SETTING

Chapter4 Factory preset timings

This timing chart is already preset for the TFT LCD analog & digital display monitors.

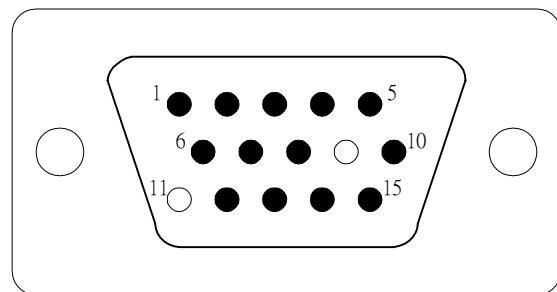
Resolution	Refresh rate	Horizontal Frequency	Vertical Frequency	Horizontal Polarity	Vertical Polarity	Pixel Rate
640x480	60Hz	31.5kHz	59.94Hz	N	N	25.175
640x480	75Hz	37.5kHz	75.00Hz	N	N	31.500
800X600	60Hz	37.9kHz	60.317Hz	P	P	40.000
800x600	75Hz	46.9kHz	75.00Hz	P	P	49.500
800X600	85Hz	53.7kHz	85.06Hz	P	P	56.250
1024x768	60Hz	48.4kHz	60.01Hz	N	N	65.000
1024X768	75Hz	60.0kHz	75.03Hz	P	P	78.750
720x400	70Hz	31.46kHz	70.08Hz	N	P	28.320
1366X768	60	47.7KHZ	60.00HZ	P	N	85.500

Remark: P: positive N: negative

Chapter 5 Pin Assignment

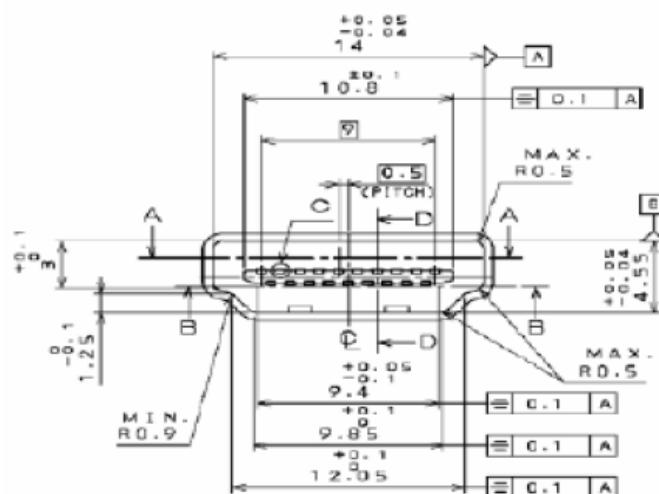
The TFT LCD analog display monitors use a 15 Pin Mini D-Sub connector as video input source.

Pin	Description
1	Red
2	Green
3	Blue
4	Ground
5	Ground
6	R-Ground
7	G-Ground
8	B-Ground
9	+5V for DDC
10	Ground
11	No Connection
12	(SDA)
13	H-Sync (Composite Sync)
14	V-Sync
15	(SCL)



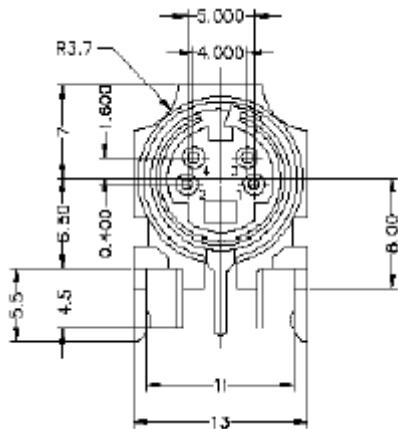
HDMI CONNECT PIN ASSIGNMENT

PIN	SIGNAL ASSIGNMENT
1	TMDS Data2+
2	TMDS Data2 Shield
3	TMDS Data2-
4	TMDS Data1+
5	TMDS Data1 Shield
6	TMDS Data1-
7	TMDS Data0+
8	TMDS Data0 Shield
9	TMDS Data0-
10	TMDS Clock+
11	TMDS Clock Shield
12	TMDS Clock-
13	CEC
14	Reserved (N.C on device)
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V Power
19	Hot Plug Detect



Four-Pin mini DIN S-Video Connector

a. Pin Assignment



b. Signal Level Video (Y): Analog $0.1V_{p-p}/75\Omega$

Video (C): Analog $0.286V_{p-p}/75\Omega$

Sync (H+V): 0.3V below Video (Y)

c. Frequency H: 15.734KHz V: 60Hz (NTSC)

Signal Level Video (Y) : Analog $0.1V_{p-p}/75\Omega$

Video (C) : Analog $0.286V_{p-p}/75\Omega$

Sync (H+V): 0.3V below Video (Y)

Frequency H: 15.734Khz V: 60HZ (NTSC)

F-Type TV RF connector

a. Signal Level $60dB\mu V$ typical

b. System NTSC

c. Frequency 55~801MHz (NTSC)

PC connector 15 pin male D-sub connector

a. Pin Assignment Refer to Section 2.3.10

b. Signal Level Video (R, G, B): Analog $0.7V_{p-p}/75\Omega$ Sync (H, V): TTL level

RGB Signal:

- a. Sync Type TTL (Separate / Composite) or Sync. On Green
- b. Sync polarity Positive or Negative
- c. Video Amplitude RGB: 0.7Vp-p
- d. Frequency H: support to 30K~70KHz
V: support to 50~85Hz
Pixel Clock: support to 110MHz

HDMI Signal (Digital HD):

- a. Pin Assignment Refer to HDNI Pin Assignment
- b. Type A
- c. Polarity Positive or Negative
- d. Frequency
 - H: 15.734KHz V: 60Hz (NTSC-480i)
 - H: 31KHz V: 60Hz (NTSC-480p)
 - H: 45KHz V: 60Hz (NTSC-720p)
 - H: 33KHz V: 60Hz (NTSC-1080i)

Component signal (Analog HD1 and Analog HD2)

Analog HD1

- a. Frequency
 - H: 15.734KHz V: 60Hz (NTSC-480i)
 - H: 31KHz V: 60Hz (NTSC-480p)
 - H: 45KHz V: 60Hz (NTSC-720p)
 - H: 33KHz V: 60Hz (NTSC-1080i)
- b. Signal level Y: 1Vp-p Pb: ± 0.350 Vp-p Pr: ± 0.350 Vp-p
- c. Impedance 75Ω

Analog HD2

- a. Frequency H: 15.734KHz V: 60Hz (NTSC-480i)
 - H: 31KHz V: 60Hz (NTSC-480p)
 - H: 45KHz V: 60Hz (NTSC-720p)
 - H: 33KHz V: 60Hz (NTSC-1080i)
- b. Signal level Y: 1Vp-p Pb: ± 0.350 Vp-p Pr: ± 0.350 Vp-p
- c. Impedance 75Ω

Chapter6 Main Board I/o Connections

J7 CONNECTION (TOP→BOTTOM)

Pin	Description
1	“Auto”
2	“Left”
3	“Right”
4	“Down”
5	“Gnd”
6	“Up”
7	“Menu”
8	“Source”
9	“Power”
10	“LED”
11	“IR”
12	“+5V”

J1 CONNECTION (TOP→BOTTOM)

Pin	Description
1	“POWRSW”
2	“+12V”
3	“+12V”
4	“+12V”
5	“+12V”
6	“GND”
7	“GND”
8	“GND”
9	“+5V”
10	“+5V”
11	“+5V”
12	“PWM”
13	“BL ON/OFF”

J3 CONNECTION (TOP→BOTTOM)

Pin	Description	Pin	Description
1	“+3.3V”	16	“HPDET”
2	“ORO2”	17	“GND”
3	“ORO1”	18	“NC”
4	“ORO0”	19	“NC”
5	“FDAT”	20	“AV3 IN”
6	“FCMO”	21	“AV3 GND”
7	“GND”	22	“AV3L”
8	“GND”	23	“GND”
9	“FCLK”	24	“AV3R”
10	“GND”	25	“GND”
11	“NC”	26	“S1Y IN”
12	“NC”	27	“S1Y GND”
13	“GND”	28	“S1C IN”
14	“HPR”	29	“S1C GND”
15	“HPL”	30	“SVDET2#”

Chapter 7 Theory of Circuit Operation

The operation of D-SUB 15pin route

The D-SUB 15pin is input analog signal to the MTK8205 transfer A/D converter then generates the vertical and horizontal timing signals for display device.

The operation of HDMI CON route

The HDMI CON is input digital signal the signal is process to the sil9011. Then transfer to the MTK8205, the MTK8205 generates the vertical and horizontal timing signals for display device.

The operation of HDTV & Component route

HDTV & Component signal is input to switch IDTQS3VH257 (Select Component1 or 2). Then transfer to the MTK8205 the MTK8205 generates the vertical and horizontal timing signals for display device.

The operation of Video 1,2,3 & S-Video route

The Video 1,2,3 and S-Video signal is transmission signal to main board MM1492 (Switch) and output to MTK8205 the MTK8205 generates the vertical and horizontal timing signals for display device.

The operation of TV route

TV signal is processes to the tuner and output to MM1492 (switch) then transfer to MTK8205 the MTK8205 generates the vertical and horizontal timing signals for display device. Audio is processes to the tuner output to SIF circuit and output to MTK8205. Then MTK8205 process to wm8776 and output to TDA8946J transfer to speaker

The operation of keypad

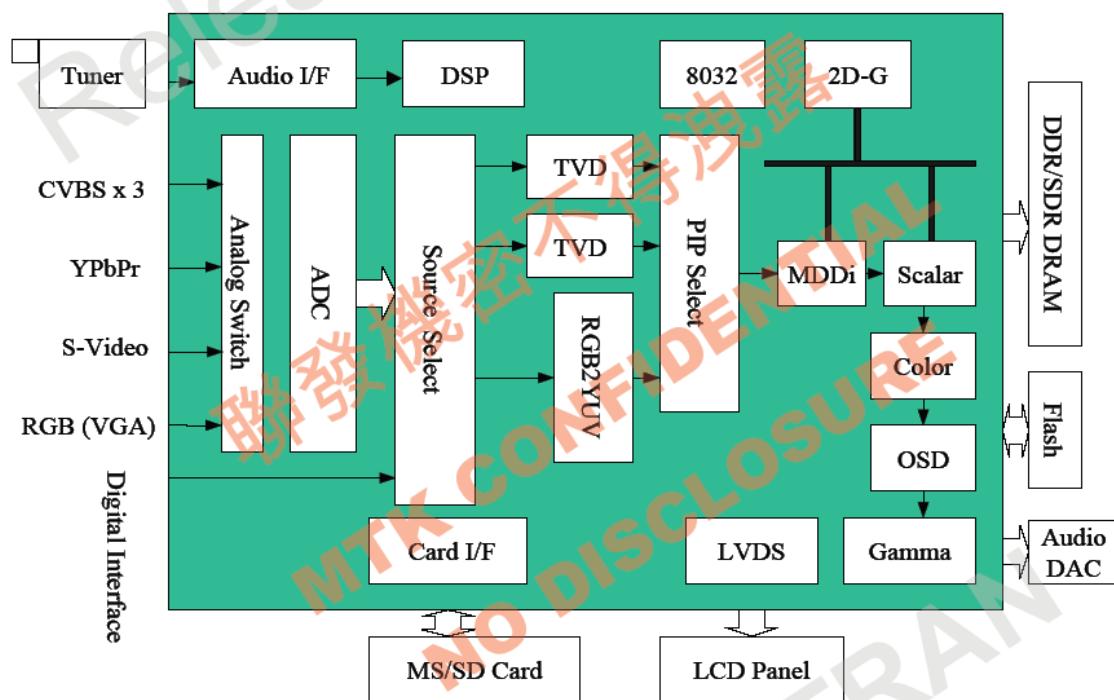
There are 8 keys to control and select the function of L32 and also has one LED to indicate the status of operation. They are “Power, Mute/Exit, OSD, ▼▲, + -, Input”.

1. The power key through POW and GND to control MTK8205, MTK8205 will receive a low signal to turn on or off system while press the power key.
2. The other key the same as power key
3. The LED is constructed with two separate LED which color is blue and orange. The MTK8205 direct control the LED's when MTK8205 (OGO5) is low the LED is orange (Close power) when MTK8205 (OGO5) is high the LED is blue (Open power).

MT8205 Application

MT8205 is a highly integrated single chip for LCD TV supporting video input and output format up to HDTV. It includes 3D comb filter TV Decoder to retrieve the best image from popular composite signals. On-chip advanced motion adaptive de-interlacer converts accordingly the interlace video into progressive one with overlay of a 2D Graphic processor. Optional 2nd HDTV or SDTV inputs allows user to see multi-programs on same screen. Flexible scalar provides wide adoption to various LCD panel for different video sources. Its on-chip audio processor decodes analog signals from Tuner with lip sync control, delivering high quality post-processed sound effect to customers. On-chip microprocessor reduces the system BOM and shortens the schedule of UI design by high level C program. MT8205 is a cost-effective and high performance HDTV-ready solution to TV manufacturers.

BLOCK DIAGRAM



1. Video input

a. Input Multiplexing

- 1.component X2
- 2.composite X3
- 3.s-videoX1
- 4.HDMI X1
- 5.VGA X1
- 6.RF X1

b. Input formats:

- 1.support HDTV 480i/480p/720p/1080p
- 2.support Y/C signal 1VP-P/75Ω
- 3.support Y/C signal 1VP-P/75Ω
- 4.support 480i/408p/720p/1080i/1080p
- 5.support VGA input up to 1366x168@60HZ
- 6.support NTSC system Frequency 55~801MHZ

2. TV Decoder

For pip/pop:

Dual identical TVD on chip

3D-comb for both path

Dual VBI decoders for the application of V-chip

3. Support Formats:

Support NTSC, NTSC-4.43

Automatic Luma / Chroma gain control

Automatic TV standard detection

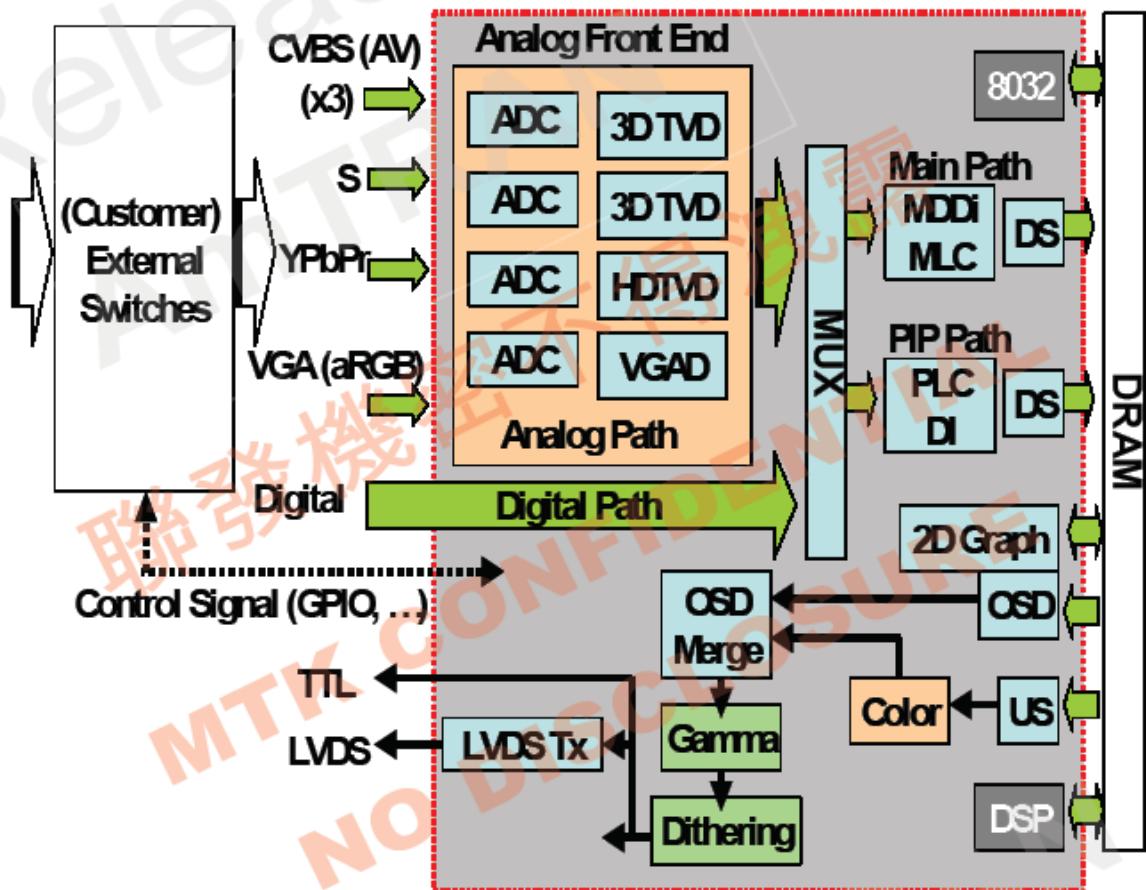
NTSC Motion Adaptive 3D comb filter

Motion adaptive 3D Noise Reduction

VBI decoder for closed-caption/XDS/Teletext/WSS/VPS

Macro vision detection

BOLOCK DIAGRAM



4. 2D-Graphic/OSD processor

- Two OSD planes.
- Support alpha blending among these two planes and video
- Support text/bitmap decoder
- Support line/rectangle/gradient fill
- Support bitblt
- Support color key function
- Support clip mask
- 65535/256/16/4/2-color bitmap format OSD
- Automatic vertical scrolling of OSD image
- Support OSD mirror and upside down

5. Microprocessor interface

When power is supplied and power key is pressed then the rest circuit lets Reset to low state that will reset the MTK8205 to initial state. After that the Reset will transits to high state and the MTK8205 start to work that microprocessor executes the programs and configures the internal registers. The execution speed of CPU is 133 MHz.

a. The I/O ports are configured as follows :

Pin name	Function	Type	Description
AF26	VGASCL	Input / Output	
AE26	VGASDA	Input / Output	
AB23	HDDCSCL	Input / Output	
AB24	HDDCSDA	Input / Output	
AD22	SCL	Input / Output	
AV22	SDA	Input / Output	
OBO0	SOURCE	Input	Key detection
OBO1	MENU	Input	Key detection
OBO2	UP	Input	Key detection
OBO3	DOWN	Input	Key detection
OBO4	RIGHT	Input	Key detection
OBO5	LEFT	Input	Key detection
OBO6	AUTO	Input	Key detection
OBO7	POWER	Input	Key detection
OGO5	LED	Output	
AF24	IR	Input / Output	
AE23	GPIO	Output	Power on of TV board and panel
AD23	PWM0	Output	Backlight Adjustmance
AC23	PWM1	Output	Select mute
AD20	UP1_5	Output	RCA out mute
AE20	UP1_4	Input	S-video Detect
AF20	UP1_3	Output	HDMI SCDT
AE19`	UP1_2	Output	YCBCRSEL
AE21	UP3_0	Output	Backlight ON/OFF
AD21	UP3_1	Output	HDMI CAB

b. PIP/POP HARDWARE LIMITION:

PIP Main	TV	AV1-AV	AV1-SV	AV2	AV3	VGA	YPbPr	HDMI	DTV (16bits digital port)
TV	V	V	V	V	V	V	V	V	V
AV1-AV	V	X		V	V	V	V	V	V
AV1-SV	V	X		V	V	V(S -> YC mix)	V(S -> YC mix)	V	V
AV2	V	V	V		V	V	V	V	V
AV3	V	V	V	V		V	V	V	V
VGA	V	V	V(S -> YC mix)	V	V		X	X	X
YPbPr	V	V	V(S -> YC mix)	V	V	X		X	X
HDMI	V	V	V	V	V	X	X		X
DTV(16bits digital port)	V	V	V	V	V	X	X	X	

6. Video processor

a. Color management

Flesh tone and multiple-color enhancement
 Gamma/anti-Gamma correction
 Color Transient Improvement (CTI)
 Saturation/hue adjustment
 Contrast/Brightness/Sharpness Management
 Sharpness and DLTI/DCTI
 Brightness and contrast adjustment
 Black level extender
 White peak level limiter
 Adaptive Luma/Chroma Management

b. De-interlacing

Automatic detect film or video source
 3:2/2:2 pull down source detection
 Advanced Motion adaptive de-interlacing

c. Scaling

Arbitrary ratio vertical/horizontal scaling of video, from 1/32X to 32X

Advanced linear and non-linear Panorama scaling

Programmable Zoom viewer

Picture in picture (PIP)

Picture in picture

d. Display

12/10/8 8/6 Dithering processing for LCD display

10bit gamma correction

Support Alpha blending for Video and two OSD panel

Frame rate conversion

7. DRAM Usage

8205, 2pcs of 8X16 DDR166 is necessary

Here is a comparison chart between (2XDDR) and (1XDDR)

	DDR*1(16Mb)	DDR*2(32Mb)
NR	Y	Y
3D-Comb	Y	Y
MDDi	480i/576i	1080i
PIP	*Y	Y
POP	*Y	Y
Display	1024x768	1920x1080

MTK8205 8MX16 DDRAM test report

Item	Brand	IC Number	Speed	Voltage	Package	Result
1	ESMT	M13S128168A-6T	6T	2.5V	TSOP66	Pass
2	elixir	N2DS12H16CT-6K	6T	2.5V	TSOP66	Pass
3	Hynix	HY5DU281622AT-6	6T	2.5V	TSOP66	Pass
4	ProMos	V58C2128164SBT6	6T	2.5V	TSOP66	Pass

8. Flash Usage

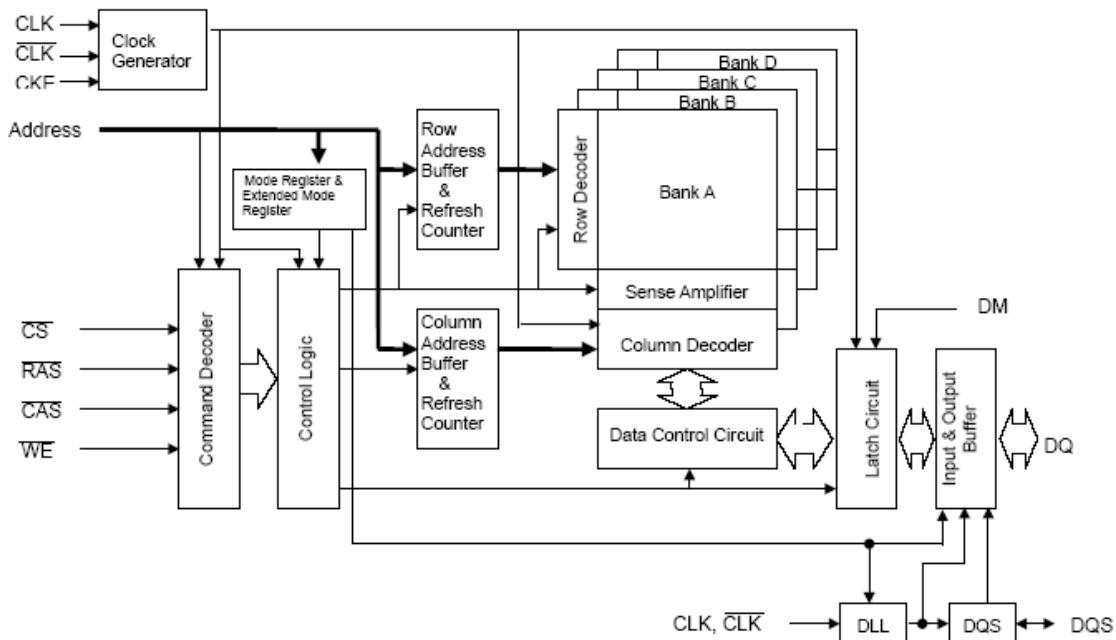
Flash is used to store FW code, fonts, bitmaps, and big tables for VGA, Video, and Gamma
2Mbyte is recommended to build a general TV model

MTK8205 Flash ROM support test report

Item	Brand	IC Number	Speed	Size	Voltage	Package	Result
1	MXIC	29LV800ABTC-70	70ns	8Mb	3.3V	TSOP48	Pass
2	MXIC	29LV800ATTC-70	70ns	8Mb	3.3V	TSOP48	Pass
3	MXIC	29LV800ATTI-70	70ns	8Mb	3.3V	TSOP48	Pass
4	MXIC	29LV800BTC-55	55ns	8Mb	3.3V	TSOP48	Pass
5	MXIC	29LV800TTC-70	70ns	8Mb	3.3V	TSOP48	Pass
6	MXIC	29LV160BBTC-70	70ns	16Mb	3.3V	TSOP48	Pass
7	MXIC	29LV160BTTC-70	70ns	16Mb	3.3V	TSOP48	Pass
8	MXIC	26LV160BTC-70	70ns	16Mb	3.3V	TSOP48	Pass
9	Fujitsu	29LV800BA-70PFTN	70ns	8Mb	3.3V	TSOP48	Pass
10	Fujitsu	29LV800TA-70PFTN	70ns	8Mb	3.3V	TSOP48	Pass
11	Fujitsu	29LV800TA-90PFTN	90ns	8Mb	3.3V	TSOP48	Pass
12	Fujitsu	29LV160BE-70PFTN	70ns	16Mb	3.3V	TSOP48	Pass
13	Fujitsu	29LV160TE-70PFTN	70ns	16Mb	3.3V	TSOP48	Pass
14	ST	M29W800AT-90N1	90ns	8Mb	3.3V	TSOP48	Pass
15	ST	M29W800AT-90N6	90ns	8Mb	3.3V	TSOP48	Pass
16	ST	M29W800DT-70N1	70ns	8Mb	3.3V	TSOP48	Pass
17	ST	M29W160EB-70N6	70ns	16Mb	3.3V	TSOP48	Pass
18	ST	M29W160ET-70N6	70ns	16Mb	3.3V	TSOP48	Pass
20	SST	39VF088-70-4C-EK	70ns	8Mb	3.3V	TSOP48	Pass
23	AMD	AM29LV160DT-70EC	70ns	16Mb	3.3V	TSOP48	Pass
24	ATMEL	AT49BV162A-70TI	70ns	16Mb	3.3V	TSOP48	Pass

DDR SDRAM (M13S128168A-6T) Application

Functional Block Diagram



Pin description

Pin Name	Function	Pin Name	Function
A0~A11, BA0,BA1	Address inputs - Row address A0~A11 - Column address A0~A8 A10/AP : AUTO Precharge BA0, BA1 : Bank selects (4 Banks)	LDM, UDM	DM is an input mask signal for write data. LDM corresponds to the data on DQ0~DQ7; UDM correspond to the data on DQ8~DQ15.
DQ0~DQ15	Data-in/Data-out	CLK, CKL	Clock input
RAS	Row address strobe	CKE	Clock enable
CAS	Column address strobe	CS	Chip select
WE	Write enable	V _{DQ}	Supply Voltage for GDQ
V _{SS}	Ground	V _{SSQ}	Ground for DQ
V _{DD}	Power	V _{REF}	Reference Voltage for SSTL-2
LDQS, UDQS	Bi-directional Data Strobe. LDQS corresponds to the data on DQ0~DQ7; UDQS correspond to the data on DQ8~DQ15.	NC	No connection

Command Truth Table

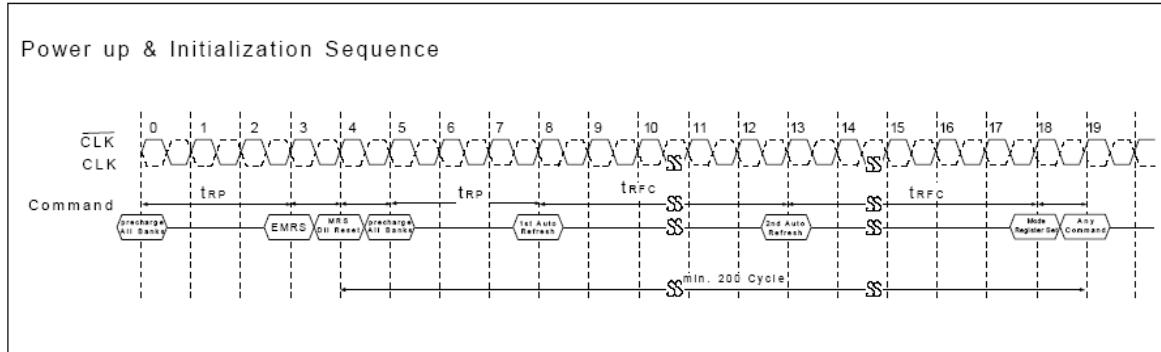
COMMAND		CKEn-1	CKEn	<u>CS</u>	<u>RAS</u>	<u>CAS</u>	<u>WE</u>	DM	BA0,1	A10/AP	A11, A9~A0	Note	
Register	Extended MRS	H	X	L	L	L	L	X	OP CODE		1,2		
Register	Mode Register Set	H	X	L	L	L	L	X	OP CODE		1,2		
Refresh	Auto Refresh		H	H	L	L	L	H	X	X		3	
	Entry			L	L	H	H	H	X	X		3	
	Self Refresh	Exit	L	H	L	H	X	X		X		3	
					H	X	X	X		X		3	
Bank Active & Row Addr.		H	X	L	L	H	H	X	V	Row Address			
Read & Column Address	Auto Precharge Disable		H	X	L	H	L	H	X	V	L	Column Address	4
	Auto Precharge Enable										H		4
Write & Column Address	Auto Precharge Disable		H	X	L	H	L	L	X	V	L	Column Address	4
	Auto Precharge Enable										H		4,6
Burst Stop		H	X	L	H	H	L	X	X		7		
Precharge	Bank Selection		H	X	L	L	H	L	X	V	L	X	
	All Banks									X	H		5
Active Power Down	Entry	H	L	H	X	X	X	X	X				
				L	V	V	V						
Precharge Power Down Mode	Exit	L	H	H	X	X	X	X	X				
				L	V	V	V						
DM		H	X				V	X		8			
No Operation Command		H	X	H	X	X	X	X					
L													

1. Power-Up and Initialization Sequence

The following sequence is required for POWER UP and Initialization.

1. Apply power and attempt to maintain CKE at a low state
(all other inputs may be undefined.)
 - Apply VDD before or at the same time as VDDQ.
 - Apply VDDQ before or at the same time as VTT & VREF).
2. Start clock and maintain stable condition for a minimum of 200us.
3. The minimum of 200us after stable power and clock (CLK, CLK),
 - apply NOP & take CKE high.
4. Issue precharge commands for all banks of the device.
5. Issue EMRS to enable DLL. (To issue “DLL Enable” command, provide “Low” to A0, “High” to BA0 and “Low” to all of the rest address pins, A1~A11 and BA1)

-
6. Issue a mode register set command for “DLL reset”. The additional 200 cycles of clock input is required to lock the DLL.(To issue DLL reset command, provide “High” to A8 and “Low” to BA0)
 7. Issue precharge commands for all banks of the device.
 8. Issue 2 or more auto-refresh commands.
 9. Issue a mode register set command with low to A8 to initialize device operation.

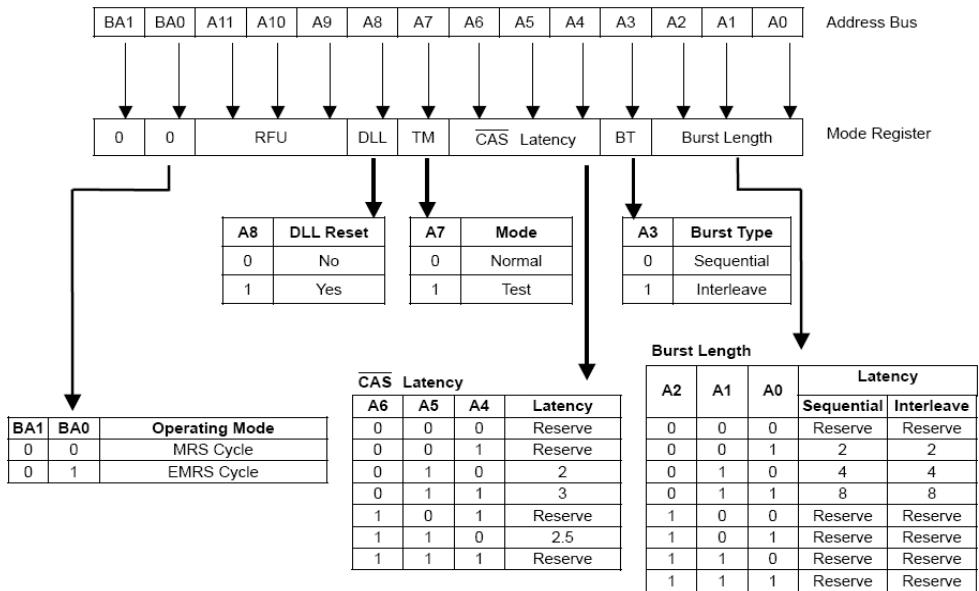


2. Mode Register Set (MRS)

The mode register stores the data for controlling the various operating modes of DDR SDRAM. It programs CAS latency, addressing mode, burst length, test mode, DLL reset and various vendor specific options to make DDR SDRAM useful for variety of different applications. The default value of the register is not defined, therefore the mode register must be written after EMRS setting for proper DDR SDRAM operation. The mode register is written by asserting low on CS , RAS , CAS , WE and BA0 (The DDR SDRAM should be in all bank recharge with CKE already high prior to writing into the mode register).

The state of address pins A0~A11 in the same cycle as CS , RAS , CAS , WE and BA0 going low is written in the mode register. Two clock cycles are requested to complete the write operation in the mode register. The mode register contents can be changed using the same command and clock cycle requirements during operation as long as all banks are in the idle state. The mode register is divided into various fields depending on functionality.

The burst length uses A0~A2, addressing mode uses A3, CAS latency (read latency from column address) uses A4~A6. A7 is used for test mode. A8 is used for DLL reset. A7 must be set to low for normal MRS operation. Refer to the table for specific codes for various burst length, addressing modes and CAS latencies.



3. Precharge

The precharge command is used to precharge or close a bank that has activated. The precharge command is issued when CS, RAS and WE are low and CAS is high at the rising edge of the clock. The precharge command can be used to precharge each bank respectively or all banks simultaneously. The bank select addresses (BA0, BA1) are used to define which bank is precharged when the command is initiated. For write cycle, tWR(min.) must be satisfied until the precharge command can be issued. After tRP from the precharge, an active command to the same bank can be initiated.

Burst Selection for Precharge by Bank address bits

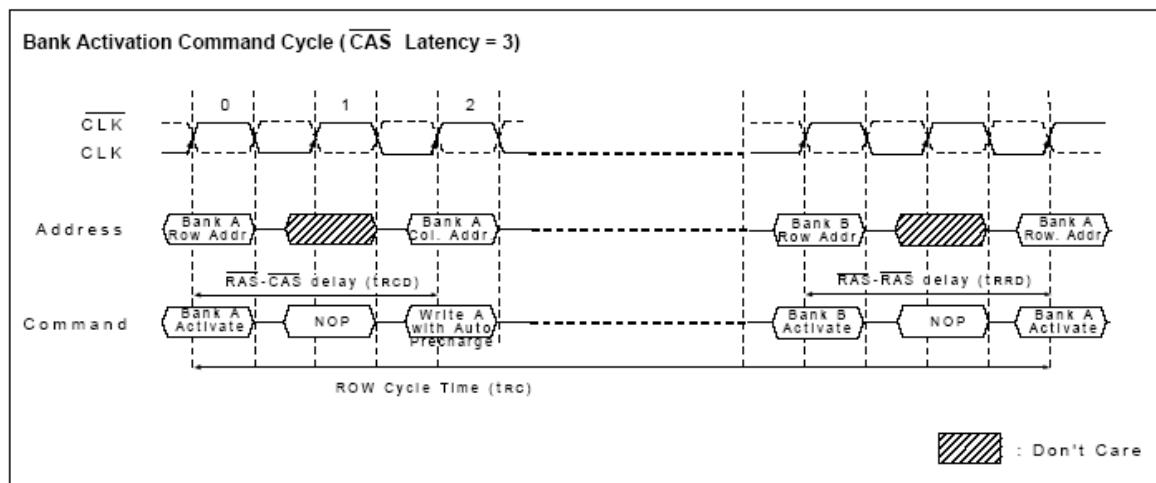
A10/AP	BA1	BA0	Precharge
0	0	0	Bank A Only
0	0	1	Bank B Only
0	1	0	Bank C Only
0	1	1	Bank D Only
1	X	X	All Banks

4. Row Active

The Bank Activation command is issued by holding CAS and WE high with CS and RAS low at the rising edge of the clock (CLK).

The DDR SDRAM has four independent banks; so two Bank Select addresses (BA0, BA1) are required.

The Bank Activation command to the first read or write command must meet or exceed the minimum of RAS to CAS delay time (t_{RCD} min). Once a bank has been activated, it must be precharged before another Bank Activation command can be applied to the same bank. The minimum time interval between interleaved Bank Activation command (Bank A to Bank B and vice versa) is the Bank-to-Bank delay time (t_{RRD} min).



5. Read Bank

This command is used after the row activates command to initiate the burst read of data. The read command is initiated by activating CS, CAS, and deasserting WE at the same clock sampling (rising) edge as described in the command truth table. The length of the burst and the CAS latency time will be determined by the values programmed during the MRS command.

6. Write Bank

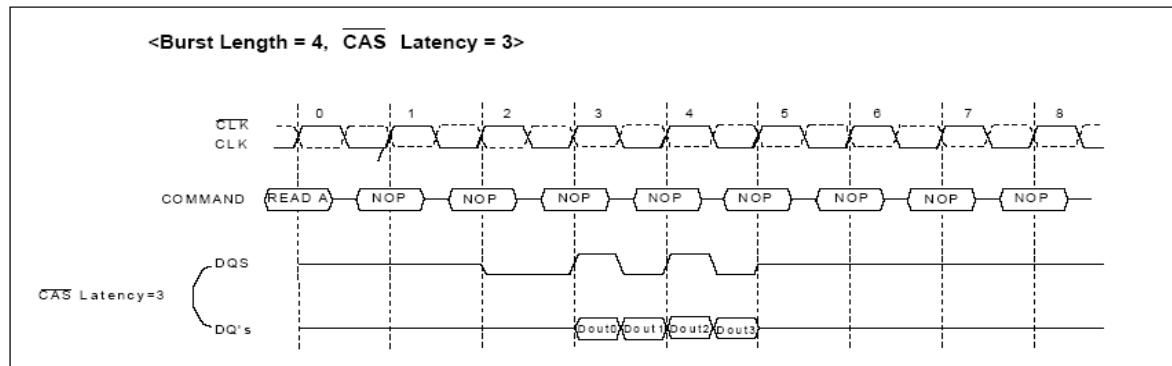
This command is used after the row activates command to initiate the burst write of data. The write command is initiated by activating CS, CAS, and WE at the same clock sampling (rising) edge as described in the command truth table. The length of the burst will be determined by the values programmed during the MRS command.

7. Burst Read Operation

Burst Read operation in DDR SDRAM is in the same manner as the current SDRAM such that the Burst read command is issued by asserting CS and CAS low while holding RAS and WE high at the rising edge of the clock (CLK) after t_{RCD} from the bank activation.

The address inputs determine the starting address for the Burst, The Mode Register sets type of burst (Sequential or interleave) and burst length (2, 4, 8).

The first output data is available after the CAS Latency from the READ command, and the consecutive data are presented on the falling and rising edge of Data Strobe (DQS) adopted by DDR SDRAM until the burst length is completed.

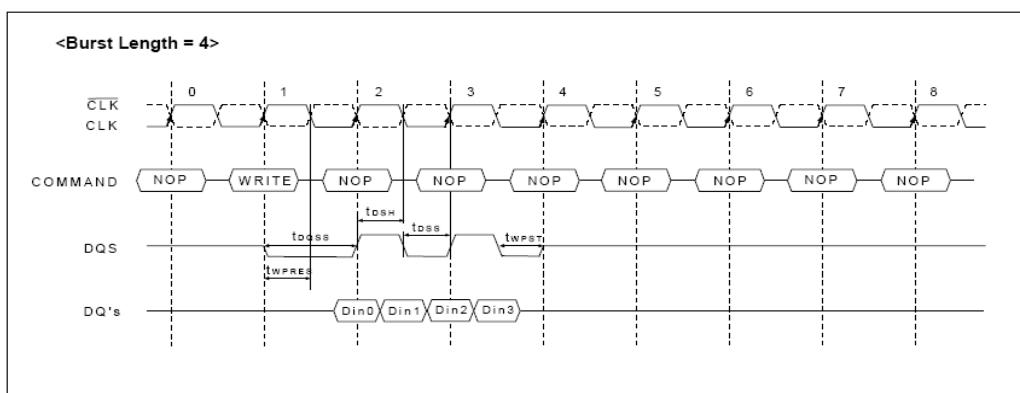


8. Burst Write Operation

The Burst Write command is issued by having CS , CAS and WE low while holding RAS high at the rising edge of the clock (CLK). The address inputs determine the starting column address. There is no write latency relative to DQS required for burst write cycle.

The first data of a burst write cycle must be applied on the DQ pins tDS (Data-in setup time) prior to data strobe edge enabled after tDQSS from the rising edge of the clock (CLK) that the write command is issued.

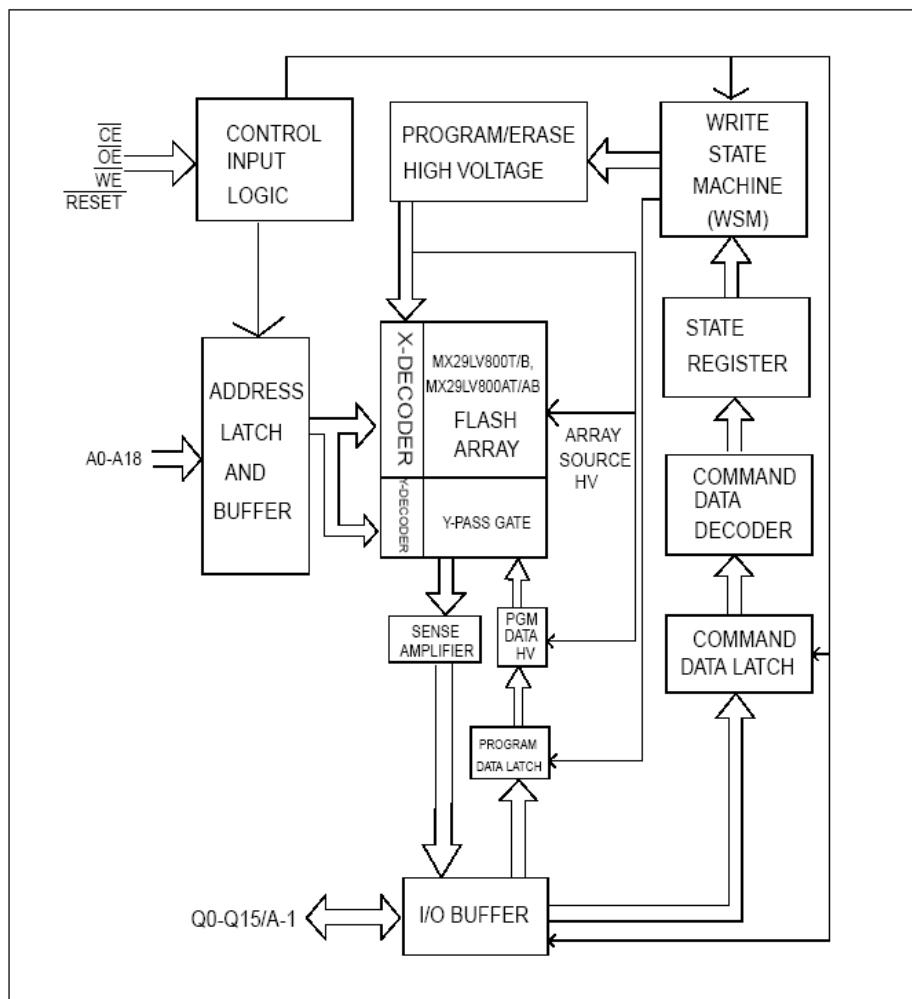
The remaining data inputs must be supplied on each subsequent falling and rising edge of Data Strobe until the burst length is completed. When the burst has been finished, any additional data supplied to the DQ pins will be ignored.



MX29LV160BTTC (Flash) Application

The MX29LV800T/B & MX29LV800AT/AB is a 8-mega bit Flash memory organized as 1M bytes of 8 bits or 512K words of 16 bits. MXIC's Flash memories offer the most cost-effective and reliable read/write non-volatile random access memory. The MX29LV800T/B & MX29LV800AT/AB is packaged in 44-pin SOP, 48-pin TSOP, and 48-ball CSP. It is designed to be reprogrammed and erased in system or in standard EPROM programmers.

BLOCK DIAGRAM



1. COMMAND DEFINITIONS

Device operations are selected by writing specific address and data sequences into the command register. Writing incorrect address and data values or writing them in the improper sequence will reset the device to the read mode. Table 5 defines the valid register command sequences. Note that the Erase Suspend (B0H) and Erase Resume (30H) commands are valid only while the Sector Erase operation is in progress.

TABLE 6. MX29LV800T/B & MX29LV800AT/AB BUS OPERATION

DESCRIPTION	CE	OE	WE	ADDRESS								Q0~Q7	Q8~Q15	
				A18 A12	A10 A11	A9 A7	A8 A6	A6 A5	A5 A2	A1	A0		BYTE =VIH	BYTE =VIL
Read	L	L	H									Dout	Dout	=High Z DQ15=A-1
Write	L	H	L									DIN(3)	DIN	
Reset	X	X	X									High Z	High Z	High Z
Temporary sector unlock	X	X	X									DIN	DIN	High Z
Output Disable	L	H	H									High Z	High Z	High Z
Standby	Vcc ± 0.3V	X	X									High Z	High Z	High Z
Sector Protect	L	H	L	SA	X	X	X	L	X	H	L	DIN	X	X
Sector Unprotected	L	H	L	X	X	X	X	H	X	H	L	DIN	X	X
Sector Protection Verify	L	L	H	SA	X	VID	X	L	X	H	L	CODE(5)	X	X

NOTES:

1. Manufacturer and device codes may also be accessed via a command register write sequence. Refer to Table 5.
2. VID is the Silicon-ID-Read high voltage, 11.5V to 12.5V.
3. Refer to Table 5 for valid Data-In during a write operation.
4. X can be VIL or VIH.
5. Code=00H/XX00H means unprotected.
Code=01H/XX01H means protected.
6. A18~A12=Sector address for sector protect.
7. The sector protect and chip unprotected functions may also be implemented via programming equipment.

2. WRITE COMMANDS/COMMAND SEQUENCES

To program data to the device or erase sectors of memory, the system must drive WE and CE to VIL, and OE to VIH. The device features an Unlock Bypass mode to facilitate faster programming. Once the device enters the Unlock Bypass mode, only two write cycles are required to program a byte, instead of four. The "byte Program Command Sequence" section has details on programming data to the device using both standard and Unlock Bypass command sequences. An erase operation can erase one sector, multiple sectors, or the entire device. Table indicates the address space that each sector occupies. A "sector address" consists of the address bits required to uniquely select a sector.

The "Writing specific address and data commands or sequences into the command register initiates device operations. Figure 1 defines the valid register command sequences. Writing incorrect address and data values or writing them in the improper sequence resets the device to reading array data. Section has details on erasing a sector or the entire chip, or suspending/resuming the erase operation.

After the system writes the auto select command sequence, the device enters the auto select mode. The system can then read auto select codes from the internal register (which is separate from the memory array) on Q7-Q0. Standard read cycle timings apply in this mode. Refer to the Auto select Mode and Auto select Command Sequence section for more information. ICC2 in the DC Characteristics table represents the active current specification for the write mode. The "AC Characteristics" section contains timing specification table and timing diagrams for write operations.

Figure 1

Sector	Sector Size		Address range		Sector Address						
	Byte Mode	Word Mode	Byte Mode (x8)	Word Mode (x16)	A18	A17	A16	A15	A14	A13	A12
SA0	64Kbytes	32Kwords	00000h-0FFFFh	00000h-07FFFh	0	0	0	0	X	X	X
SA1	64Kbytes	32Kwords	10000h-1FFFFh	08000h-0FFFFh	0	0	0	1	X	X	X
SA2	64Kbytes	32Kwords	20000h-2FFFFh	10000h-17FFFh	0	0	1	0	X	X	X
SA3	64Kbytes	32Kwords	30000h-3FFFFh	18000h-1FFFFh	0	0	1	1	X	X	X
SA4	64Kbytes	32Kwords	40000h-4FFFFh	20000h-27FFFh	0	1	0	0	X	X	X
SA5	64Kbytes	32Kwords	50000h-5FFFFh	28000h-2FFFFh	0	1	0	1	X	X	X
SA6	64Kbytes	32Kwords	60000h-6FFFFh	30000h-37FFFh	0	1	1	0	X	X	X
SA7	64Kbytes	32Kwords	70000h-7FFFFh	38000h-3FFFFh	0	1	1	1	X	X	X
SA8	64Kbytes	32Kwords	80000h-8FFFFh	40000h-47FFFh	1	0	0	0	X	X	X
SA9	64Kbytes	32Kwords	90000h-9FFFFh	48000h-4FFFFh	1	0	0	1	X	X	X
SA10	64Kbytes	32Kwords	A0000h-AFFFh	50000h-57FFFh	1	0	1	0	X	X	X
SA11	64Kbytes	32Kwords	B0000h-BFFFFh	58000h-5FFFFh	1	0	1	1	X	X	X
SA12	64Kbytes	32Kwords	C0000h-CFFFFh	60000h-67FFFh	1	1	0	0	X	X	X
SA13	64Kbytes	32Kwords	D0000h-DFFFFh	68000h-6FFFFh	1	1	0	1	X	X	X
SA14	64Kbytes	32Kwords	E0000h-EFFFFh	70000h-77FFFh	1	1	1	0	X	X	X
SA15	32Kbytes	16Kwords	F0000h-F7FFFh	78000h-7BFFFh	1	1	1	1	0	X	X
SA16	8Kbytes	4Kwords	F8000h-F9FFFh	7C000h-7CFFFh	1	1	1	1	1	0	0
SA17	8Kbytes	4Kwords	FA000h-FBFFFh	7D000h-7DFFFh	1	1	1	1	1	0	1
SA18	16Kbytes	8Kwords	FC000h-FFFFh	7E000h-7FFFFh	1	1	1	1	1	1	X

3. READ/RESET COMMAND

The read or reset operation is initiated by writing the read/reset command sequence into the command register. Microprocessor read cycles retrieve array data. The device remains enabled for reads until the command register contents are altered. If program-fail or erase-fail happen, the write of F0H will reset the device to abort the operation. A valid command must then be written to place the device in the desired state.

4. READING ARRAY DATA

The device is automatically set to reading array data after device power-up. No commands are required to retrieve data. The device is also ready to read array data after completing an Automatic Program or Automatic Erase algorithm. After the device accepts an Erase Suspend command, the device enters the Erase Suspend mode. The system can read array data using the standard read timings, except that if it reads at an address within erase suspended sectors, the device outputs status data. After completing a programming operation in the Erase Suspend mode, the system may once again read array data with the same exception. See "Erase Suspend/Erase Resume Commands" for more information on this mode. The system must issue the reset command to re-enable the device for reading array data if Q5 goes high, or while in the auto select mode. See the "Reset Command" section, next.

5. RESET COMMAND

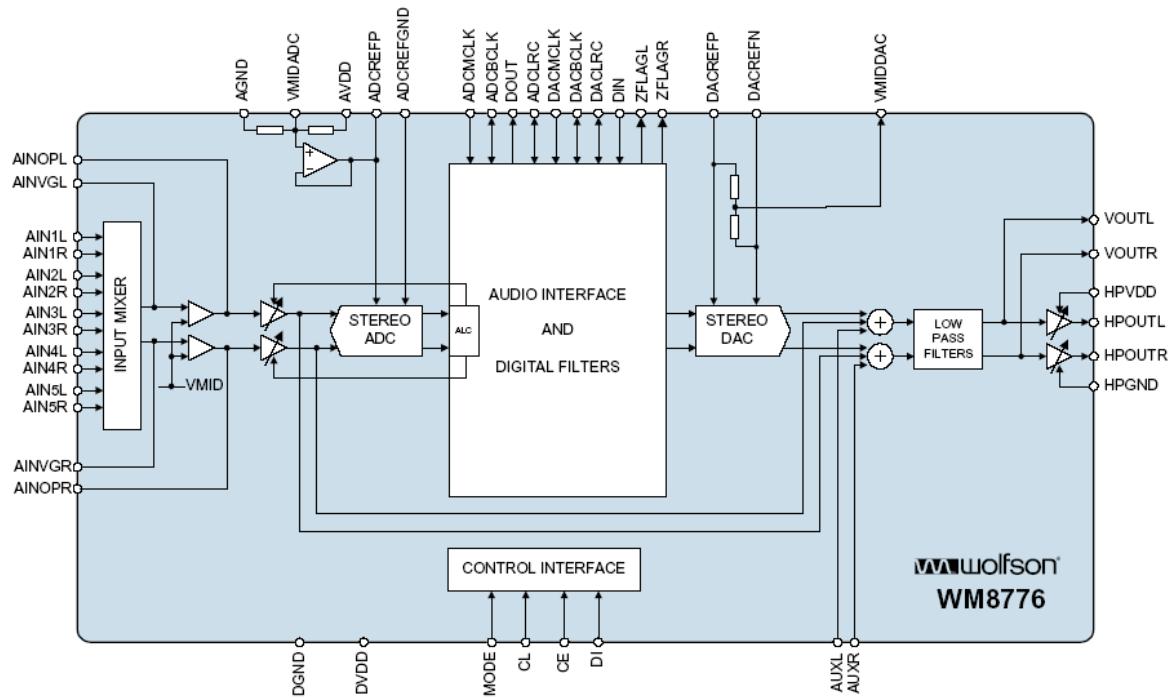
Writing the reset command to the device resets the device to reading array data. Addresses bits are don't care for this command. The reset command may be written between the sequence cycles in an erase command sequence before erasing begins. This resets the device to reading array data. Once erasure begins, however, the device ignores reset commands until the operation is complete. The reset command may be written between the sequence cycles in a program command sequence before programming begins. This resets the device to reading array data (also applies to programming in Erase Suspend mode). Once programming begins, however, the device ignores reset commands until the operation is complete. The reset command may be written between the sequence cycles in an SILICON ID READ command sequence. Once in the SILICON ID READ mode, the reset command must be written to return to reading array data (also applies to SILICON ID READ during Erase Suspend). If Q5 goes high during a program or erase operation, writing the reset command returns the device to reading array data (also applies during Erase Suspend).

WM8776 Application

The WM8776 is a high performance, stereo audio codec with five channel input selector. The WM8776 is ideal for surround sound processing applications for home hi-fi, DVD-RW and other audiovisual equipment. Each ADC channel has programmable gain control with automatic level control. Digital audio output word lengths from 16-32 bits and sampling rates from 32kHz to 96kHz are supported. The DAC has an input mixer allowing an external analogue signal to be mixed with the DAC signal. There are also Headphone and line outputs, with control for the headphone.

The WM8776 supports fully independent sample rates for the ADC and DAC. The audio data interface supports I2S, left justified, right justified and DSP formats.

BLOCK DIAGRAM



1. Audio sample rate

The master clock for WM8776 supports DAC and ADC audio sampling rates 256fs to 768fs, where fs is the audio sample frequency (DACLRC or ADCLRC) typically 32KHZ, 44.1KHZ, 48KHZ or 96KHZ (the DAC also supports operation at 128fs and 192fs and 192KHZ sample rate). The master clock is used to operate the digital filters and the noise shaping circuits.

In slave mode the WM8776 has a master detection circuit that automatically determines the relationship between the master clock frequency and the sampling rate (to within +/- 32 system clocks) If there is a greater than 32 clocks error the interface is disabled and ADCLRC/DACLRC for optical performance, although the WM8776 is tolerant of phase variations or jitter on this clock.

Table shows the typical master clock frequency inputs for the WM8776

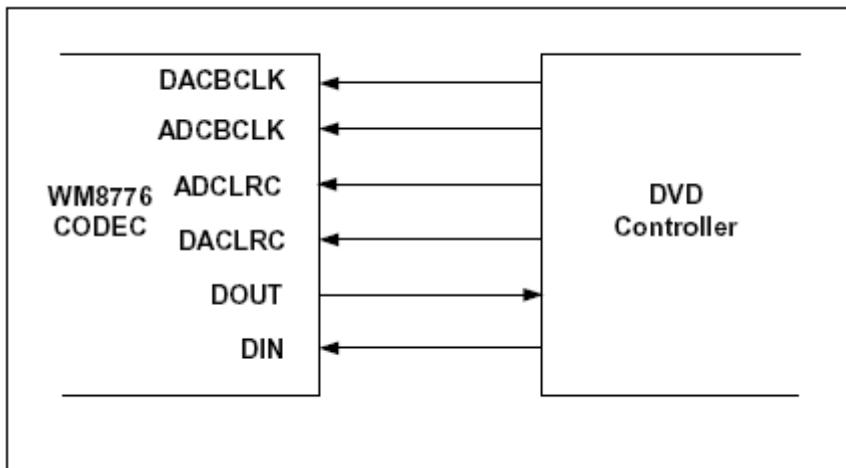
SAMPLING RATE (DACLRC/ ADCLRC)	System Clock Frequency (MHz)					
	128fs	192fs	256fs	384fs	512fs	768fs
	DAC ONLY					
32kHz	4.096	6.144	8.192	12.288	16.384	24.576
44.1kHz	5.6448	8.467	11.2896	16.9340	22.5792	33.8688
48kHz	6.144	9.216	12.288	18.432	24.576	36.864
96kHz	12.288	18.432	24.576	36.864	Unavailable	Unavailable
192kHz	24.576	36.864	Unavailable	Unavailable	Unavailable	Unavailable

2. DIGITAL AUDIO INTERFACE

a. Slave mode

The audio interfaces operations in either slave mode selectable using the MS control bit. In slave mode DIN is always an input to the WM8776 and DOUT is always an output. The default is Slave mode. In slave mode (ms=0) ADCLRC, DACLRC, ADCBCLK, DACBCLK are input to the WM8776

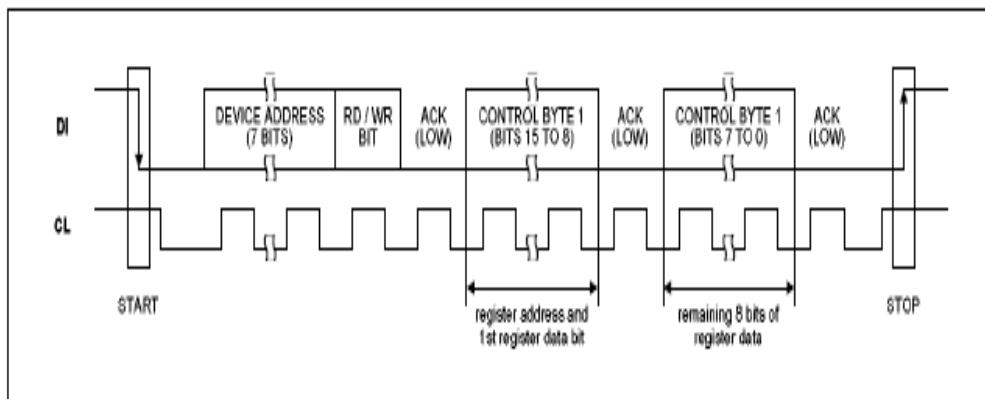
DIN and DACLRC are sampled by the WM8776 on the rising edge of DACBCLK; ADCLRC is sampled on the rising edge of ADCBCLK. ADC data is output on DOUT and changes on the falling edge of ADCBCLK. By setting control bit BCLKINV the polarity of ADCBCLK and DACBCLK may be reversed so that DIN and DACLRC are sample on the falling edge of DACBCLK, ADCLRC is sampled on the falling edge of ADCBCLK and DOUT changes on the rising of ADCBCLK Slave mode as shown in the following figure.



b. 2 Wire serial control mode

The wm8776 supports software control via a 2-wire serial bus. Many devices can be controlled by the same bus, and each device has a unique 7-bit address (this is not the same as the 7-bit address of each register in the wm8776). The wm8776 operates as a slave device only.

2-wire serial interface as shown in the following figure.



The wm8776 has two possible device addresses, which can be selected using the CE pin
In the L32 LCD TV CE pin is LOW (device address is 34h)

CE STATE	DEVICE ADDRESS
Low	0011010 (0 x 34h)
High	0011011 (0 x 36h)

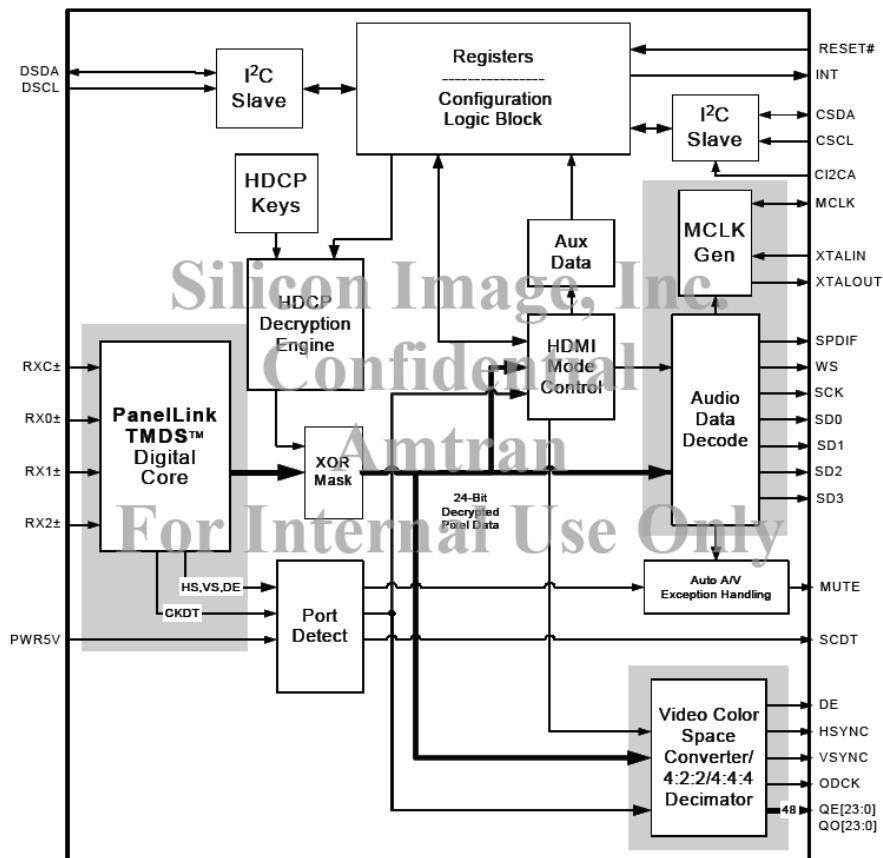
In the L32 wm8776 has 2-wire interface

MODE	Control Mode
0	2 wire interface
1	3 wire interface

Sil9011 Application

The sil9011 provides a complete solution for receiving HDMI compliant digital audio and video. Specialized audio and video processing is available within the sil9011 to easily and cost effectively adds HDMI capability to consumer electronics devices such as digital TVs, plasma displays, LCD TVs and projectors.

BLOCK DIAGRAM



1. TMDS Digital Core

The core performs 10-to-8-bit TMDS decoding on the audio and video received from the three TMDS differential data lines along with a TMDS differential clock. The TMDS core supports link clock rates to 165MHz, including CE modes to 720P/1080I/1080P.

2. Active port detection

The Panel Link core detects an active TMDS clock and actively toggling DE signal. These states are accessible in register bits, useful for monitoring the status of the HDMI input or for automatically powering down the receiver. The 5V supply from the HDMI connector is used as a cable detect indicator. The sil9011 can monitor the presence of this +5V supply and, if and when necessary, provide a fast audio mute without pops when it senses the HDMI cable pulled. The microcontroller can also poll registers in the sil9011 to check whether an HDMI cable is connected.

3. HDCP Decryption engine

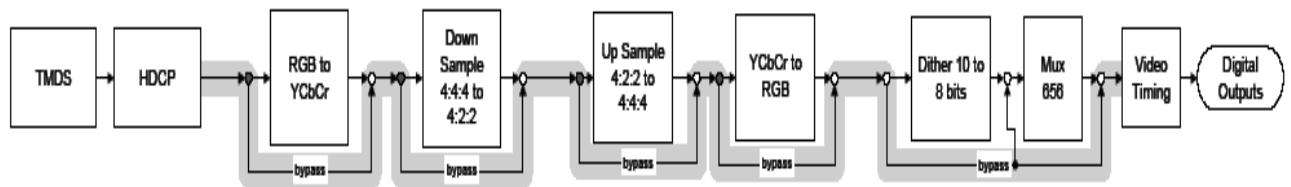
The HDCP decryption engine contains all necessary logic to decrypt the incoming audio and video data. The decryption process is entirely controlled by the host microprocessor through a set sequence of register reads and writes through the DDC channel. Pre-programmed HDCP keys and key Selection Vector are used in the decryption process. A resulting calculated to an XOR mask during each clock cycle to decrypt the audio/video data in sync with the host.

4. Video Data Conversion and Video Output

The Sil9011 can output video in many different formats as shown in the following figure.

Color Space	Video Format	Bus Width	Hsync / Vsync	Output Clock (MHz) ³							Notes
				480i	480p	XGA	720p	1080i	1080p	UXGA	
RGB	4:4:4	24	Separate	13.25 / 27	27	65	74.25	74.25	148.5	162	
YCbCr	4:4:4	24	Separate	13.25 / 27	27	65	74.25	74.25	148.5	162	
YCbCr	4:2:2	16/20/24	Sep, Emb.	13.25 / 27	27	—	74.25	74.25	148.5	162	1,2
YCbCr	4:2:2	8/10/12	Sep, Emb.	27	54	135	148.5	148.5	—	—	1,4
RGB	4:4:4	48	Separate	6.73/13.5	13.5	32.25	37.13	37.13	74.25	81	5
YCbCr	4:4:4	48	Separate	6.73/13.5	13.5	32.25	37.13	37.13	74.25	81	5
RGB	4:4:4	12	Separate	13.25 / 27	27	65	74.25	74.25	—	—	6
YCbCr	4:4:4	12	Separate	13.25 / 27	27	65	74.25	74.25	—	—	6
YCbCr	4:2:2	8/10/12	Sep, Emb.	13.25/27	27	65	74.25	74.25	—	81	1,4

The receiver can also process the video data before it is output as show below figure



5. I²c Interface to Display Controller

The Controller I²c interface (CSDA, CSCL) on the sil9011 is a slave interface capable of running up to 400KHZ. This bus is used to configure the SIL9011 by reading/writing to the appropriate registers. The SIL9011 is accessible on the local I²c bits at two-device address. The logic state of the CI2CA pin is latched on the rising edge of REST# providing a choice of two pairs of device address.

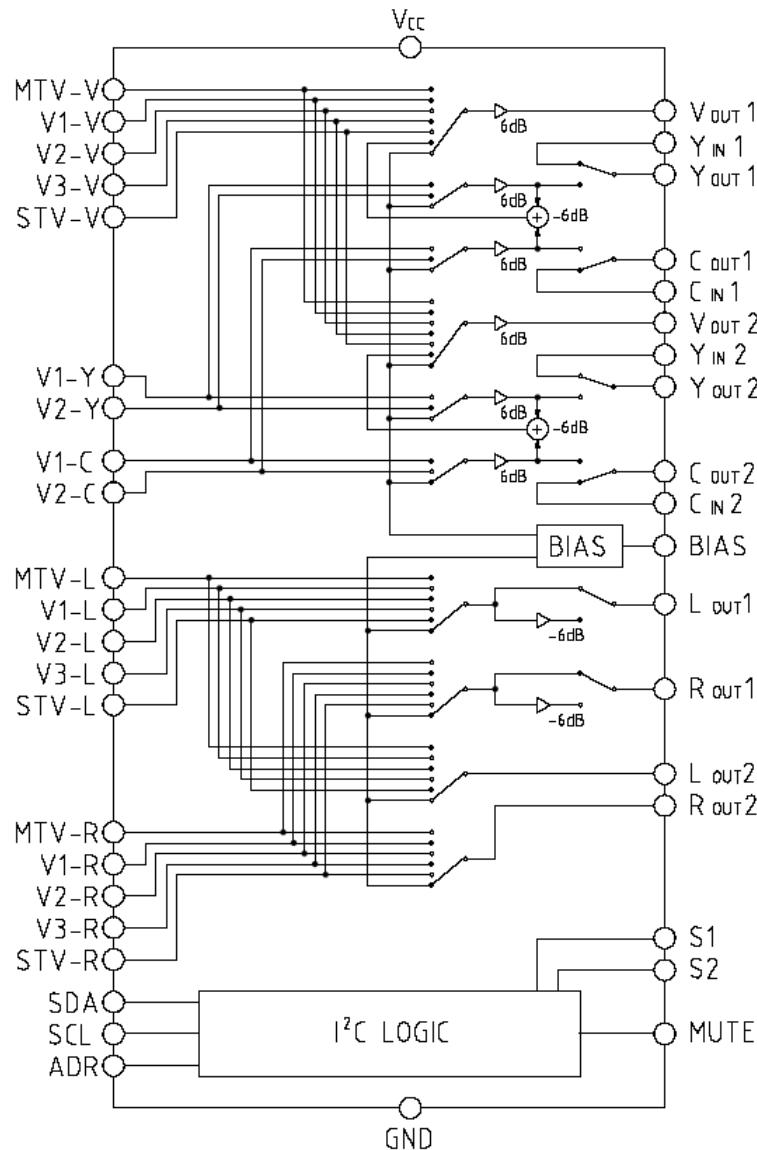
Control of local I²c address with CI2CA pin

	CI2CA = Pull Down	CI2CA = Pull Up
First Device Addr	0x60	0x62
Second Device Addr	0x68	0x6A

MM1942 Application

The MM1942 IC is a 5-input 2-output AV switch controlled by the I²C BUS developed for use in television.

BLOCK DIAGRAM



1. I²C Bus

I²C BUS is interring bus system controlled by 2 lines (SDA, SCL). Data are transmitted and received in the units of byte and Acknowledge. It is transmitted by MSB first from the Start conditions.

The data format is set as shown in the following figure.

S	Slave address							RW	A	Control register 1							A	Control register 2							A	P	
	1	0	0	1	0	0	0/1	0	b7	b6	b5	b4	b3	b2	b1	b0	b7	b6	b5	b4	b3	b2	b1	b0			
Address byte														Control data													

In the L32 TV MM1492 slave address, ADR terminal is L, and 90H is selected.

The following figure indicates the control contents of control registers and switches.

Register	b7	b6	b5	b4	b3	b2	b1	b0
1	Audio Gain 1	S/Comp select 1		Video out1 select		Audio out1 select		
2	Audio Gain 2	S/Comp select 2		Video out2 select		Audio out2 select		

2. Switch control table

a. Video output 1

b6	b5	b4	b3	Vout1	Yout1	Cout1
0	0	0	0	Mute	Mute	Mute
0	0	0	1	MTV-V	Yin1	Cin1
0	0	1	0	V1-V	Yin1	Cin1
0	0	1	1	V2-V	Yin1	Cin1
0	1	0	0	V3-V	Yin1	Cin1
0	1	0	1	STV-V	Yin1	Cin1
0	1	1	0			
1	0	0	0	Mute	Mute	Mute
1	0	0	1	MTV-V	Yin1	Cin1
1	0	1	0	V1-(Y+C)	V1-Y	V1-C
1	0	1	1	V2-(Y+C)	V2-Y	V2-C
1	1	0	0	V3-V	Yin1	Cin1
1	1	0	1	STV-V	Yin1	Cin1
1	1	1	0			
1	1	1	1	Mute	Mute	Mute

b. Audio output 1

Mute terminal	b2	b1	b0	Lout1	Rout1
≤1.5V (OPEN)	0	0	0	Mute	Mute
	0	0	1	MTV-L	MTV-R
	0	1	0	V1-L	V1-R
	0	1	1	V2-L	V2-R
	1	0	0	V3-L	V3-R
	1	0	1	STV-L	STV-R
	1	1	0		
	1	1	1	Mute	Mute
≥3.0V				Mute	Mute

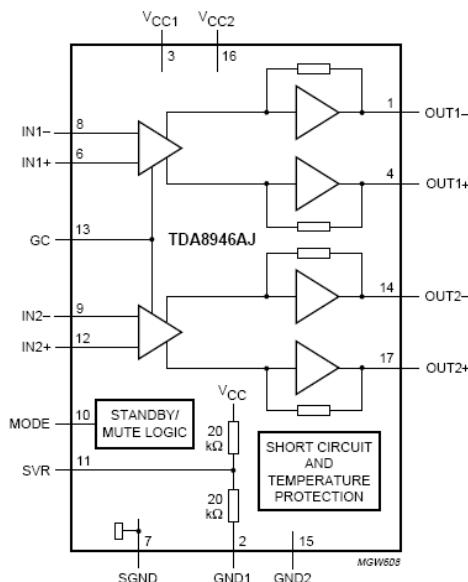
c. Audio gain

b7	Lout1	Rout1
0	-6dB	-6dB
1	0dB	0dB

TDA8946 Application

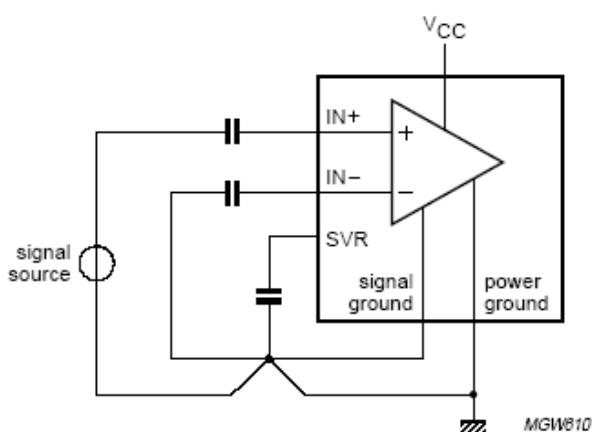
In L32 TV the TDA8946AJ is a dual-channel audio power amplifier with DC gain control. It has an output power of 2×10 W at an $8\ \Omega$ load and a 12 V supply.

Block diagram



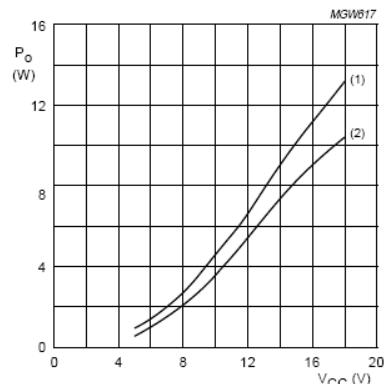
1. Input configuration

The TDA8946AJ inputs can be driven symmetrical (floating) as well as asymmetrical. In the asymmetrical mode one input pin is connected via a capacitor to the signal source and the other input is connected to the signal ground. The signal ground should be as close as possible to the SVR (electrolytic) capacitor ground. Note that the DC level of the input pins is half of the supply voltage VCC, so coupling capacitors for both pins are necessary



2. Output power measurement

The output power as a function of the supply voltage is measured on the output pins at THD = 10%, in the L32 LCD TV Vcc=12V so we can see as shown in the following figure output about 7W.



$R_L = 8 \Omega$
(1) THD = 10%
(2) THD = 1%

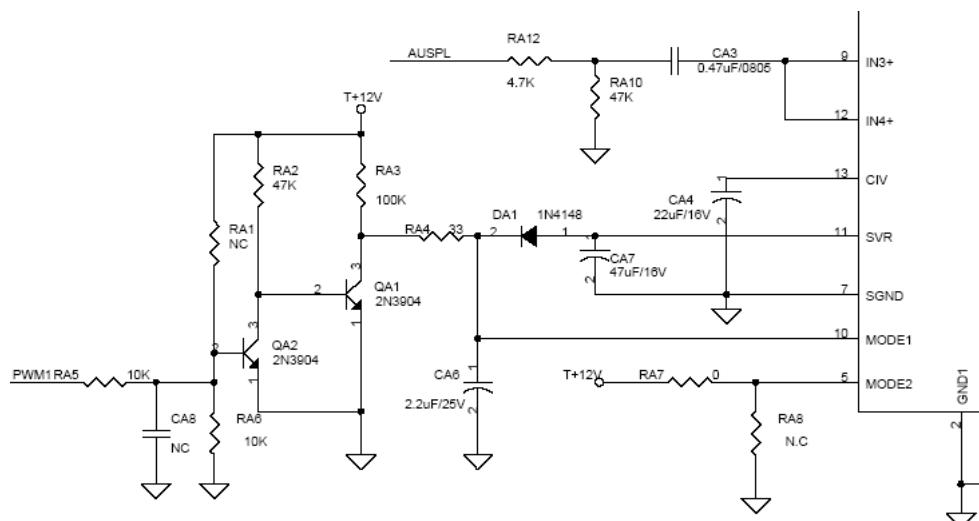
3. Mode selection

In the L32 LCD TV TDA8946AJ has two functional modes, which can be selected by applying the proper DC voltage to pin MODE.

a. Mute — In this mode the amplifier is DC-biased but not operational (no audio output).

This allows the input coupling capacitors to be charged to avoid pop-noise. The device is in mute mode when $3.5 \text{ V} < V_{\text{MODE}} < (V_{\text{cc}} - 1.5 \text{ V})$.

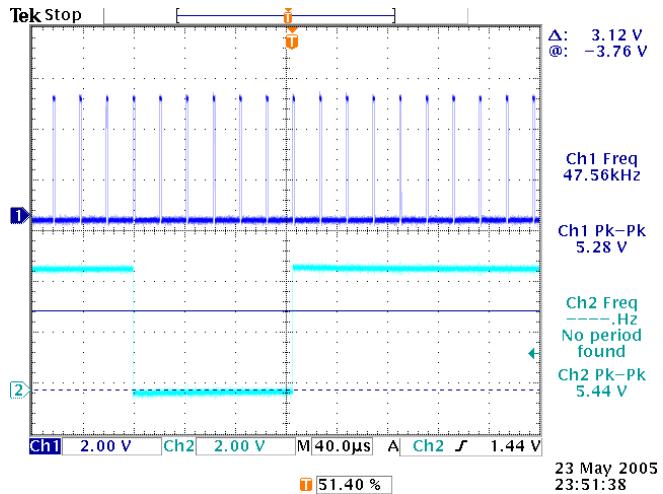
b. Operating — In this mode the amplifier is operating normally. The operating mode is activated at $V_{\text{MODE}} < 1.0 \text{ V}$.



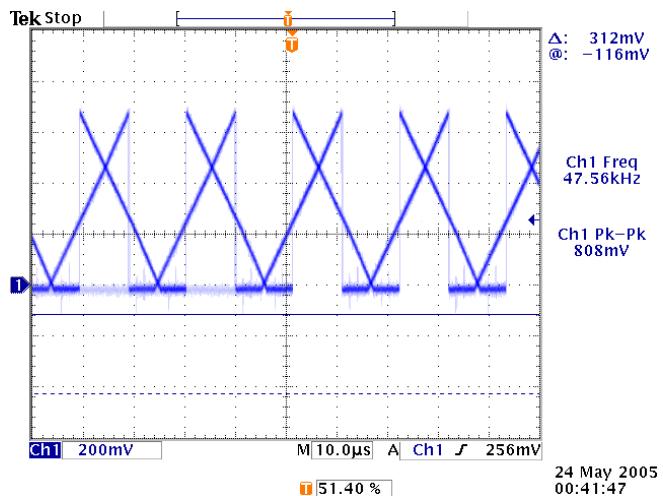
Chapter8 Waveforms

PC MODE(1366X768 60HZ)

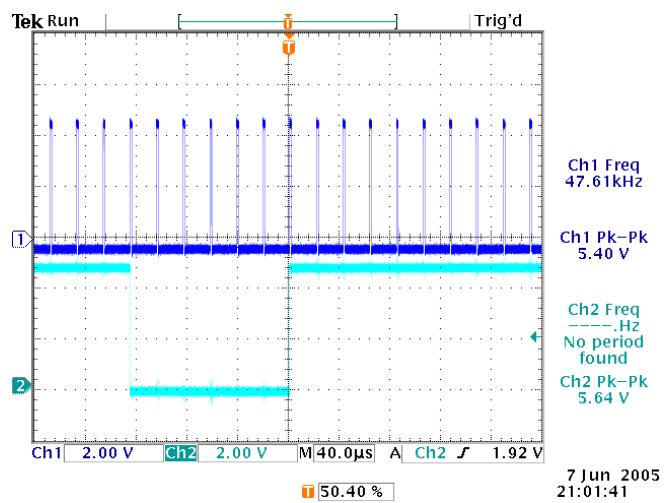
CH1 H-sync (FB46); CH2 V-sync (FB45)



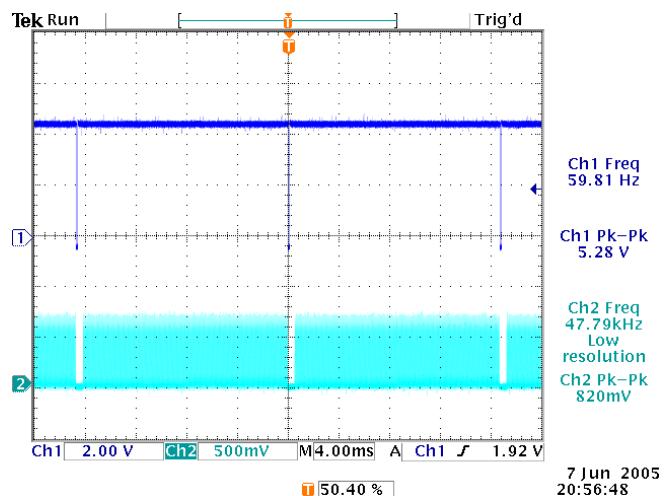
GREEN (R194)



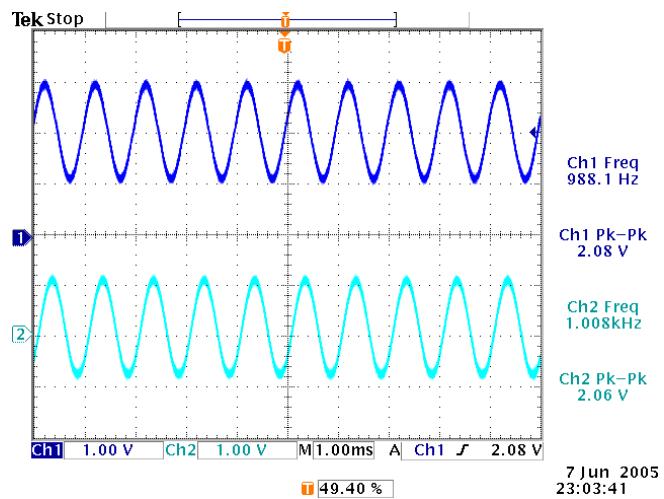
CH1 VGAHSYNC# (FB46); CH2 VGAVSYNC# (FB45)



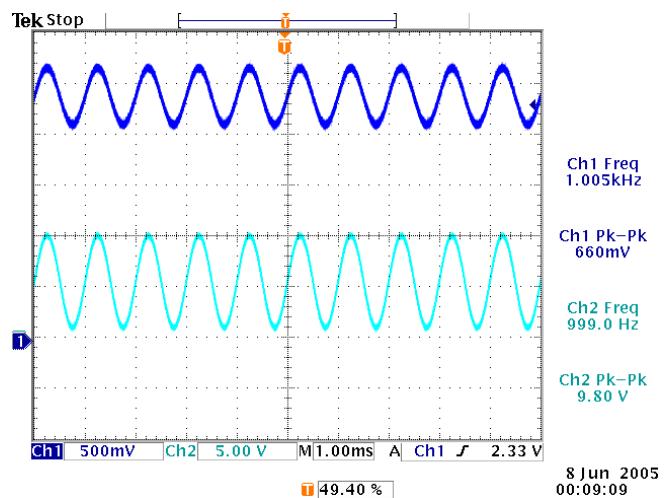
CH1 VGAVSYNC# (FB45); CH2 GREEN (R194)



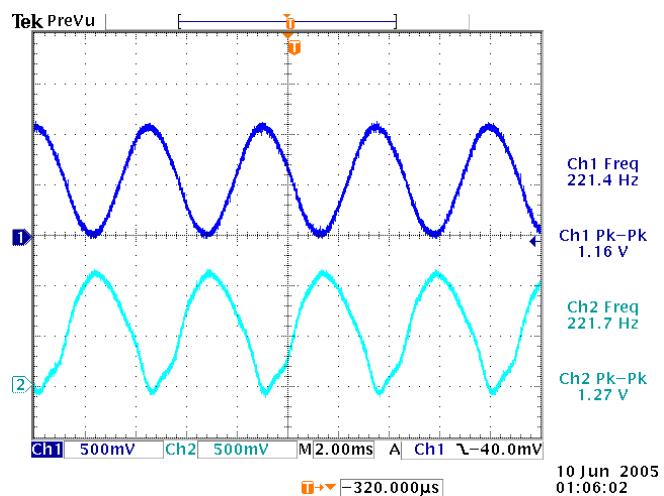
CH1 VGAL (CE81); CH2 AVOL (R252)



CH1 AUSPL (RA12) ; CH2 L+ (UA1 PIN17)

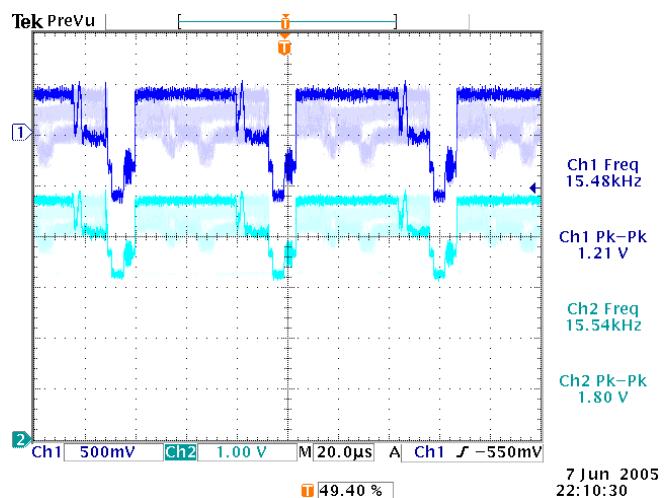


CH1 XTALI (U9 PIN A15);CH2 XTALO (U9 PIN B15)

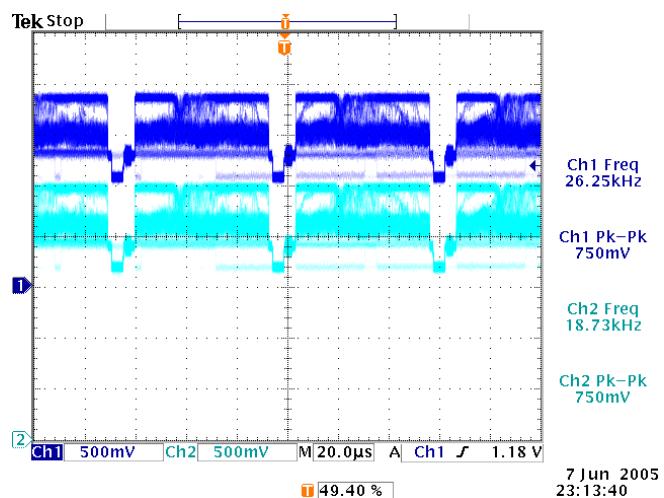


AV&TV MODE (AV1/AV2/AV3/TV) VIDEO

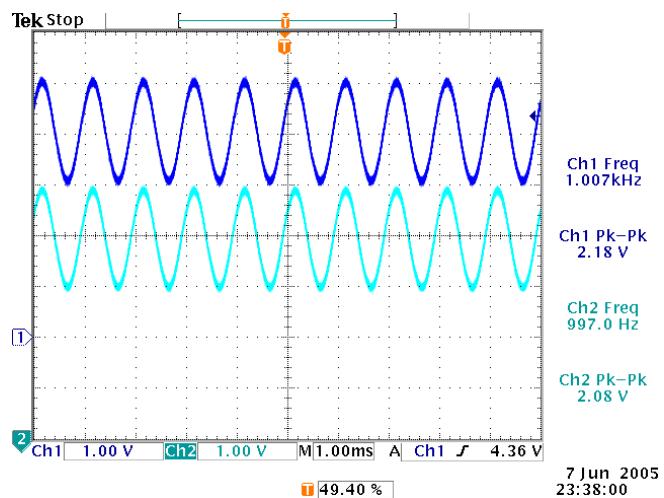
CH1 (R88); CH2 (Q4 PIN1)



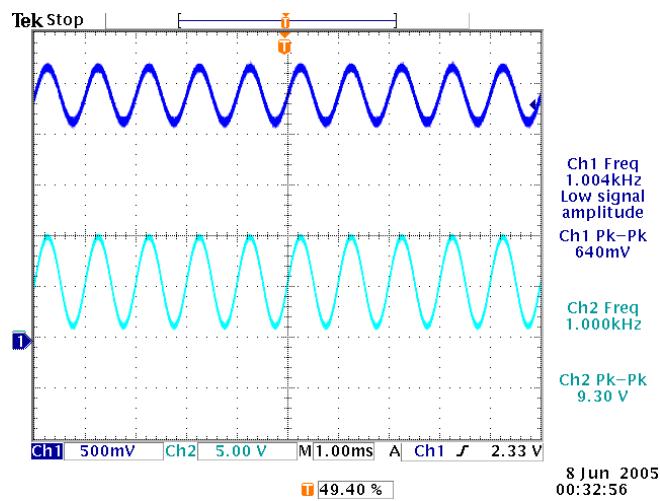
CH1 CVBS1+ (U9 PINA2); CH2 CVBS1 (R136)



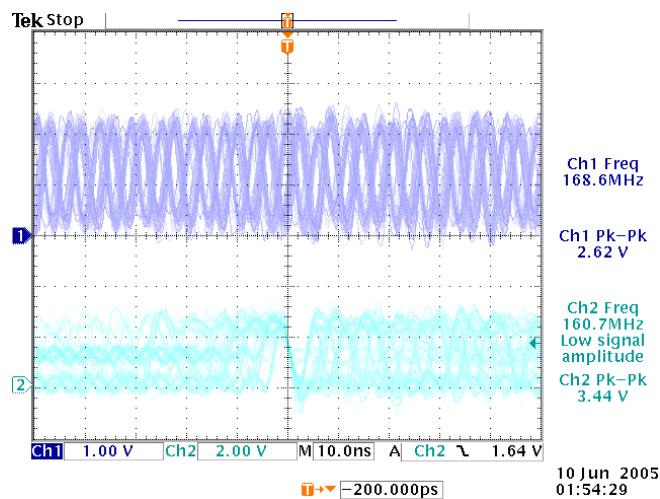
CH1 AV1L (U20 PIN1); CH2 AUO1L_SWO (U20 PIN36)



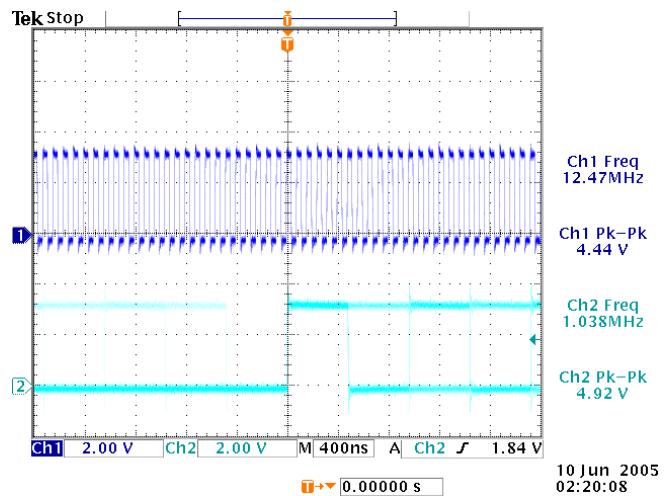
CH1 AUSPL (RA12) ; CH2 L+ (UA1 PIN17)



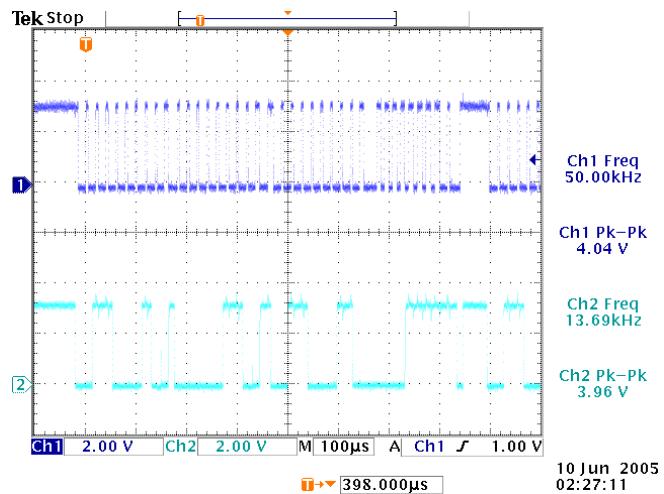
CH1 D_CLK# (U11 PIN46);CH2 D_DQ15(U11 PIN65)



CH1 DACMCLK (U22 PIN11);CH2 DOUT (U22 PIN12)

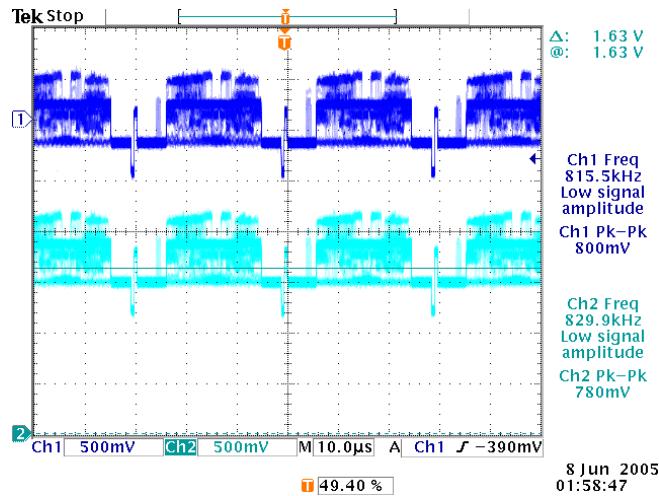


CH1 SCL34H(U22 PIN19);CH2 SDA34H (U22 PIN18)

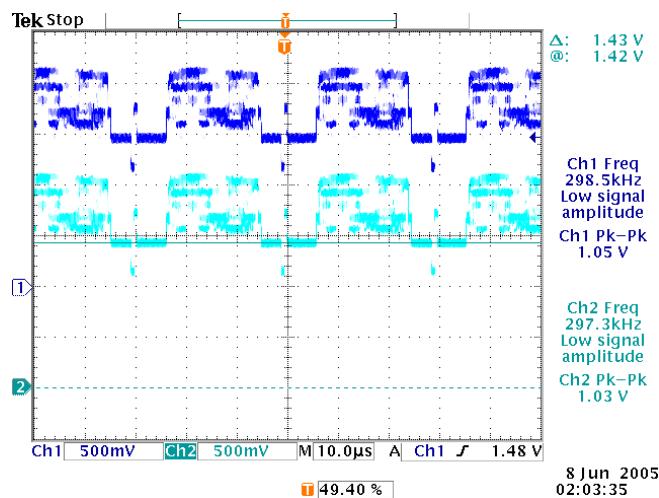


ANALOG HD MODE (ANALOG HD1/HD2)

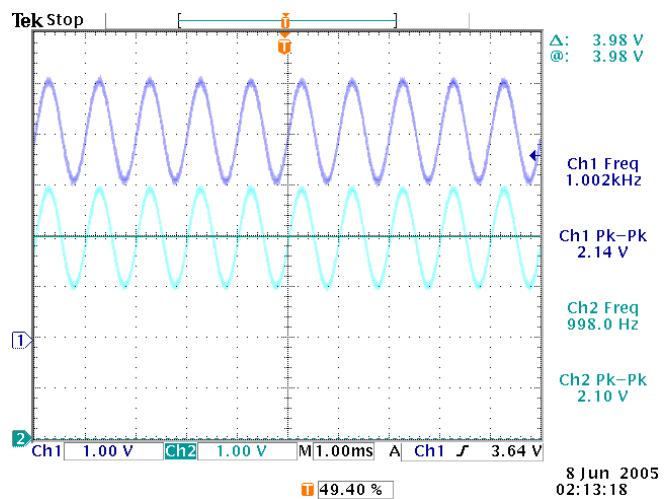
CH1Y1_IN (R105); CH2 Y (U21 PIN7)



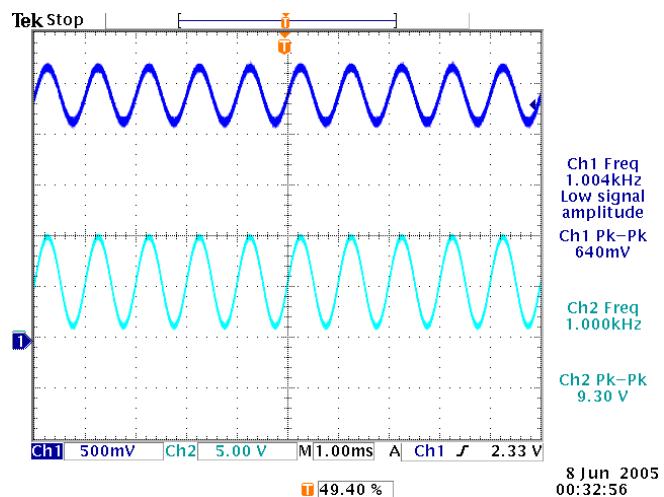
CH1Y (R280); CH2 Y+ (C120)



CH1 TUL (U20 PIN44); CH2 AUO1L_SWO (U20 PIN 36)

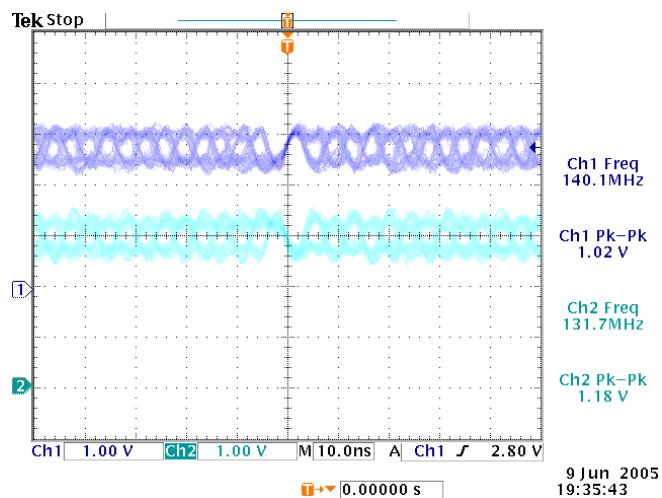


CH1 AUSPL (RA12) ; CH2 L+ (UA1 PIN17)

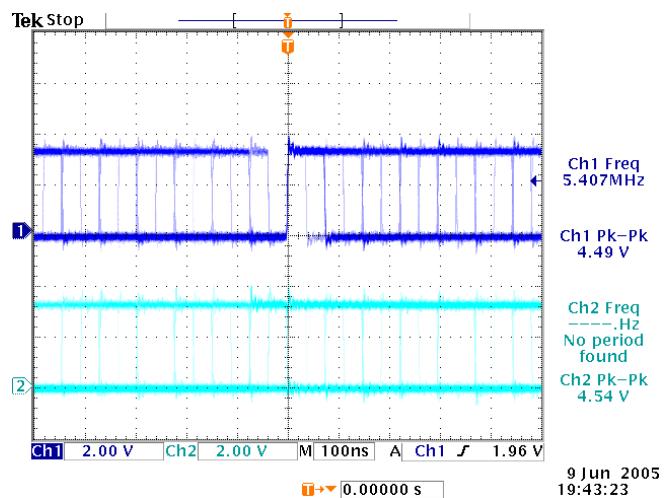


DIGITAL HD

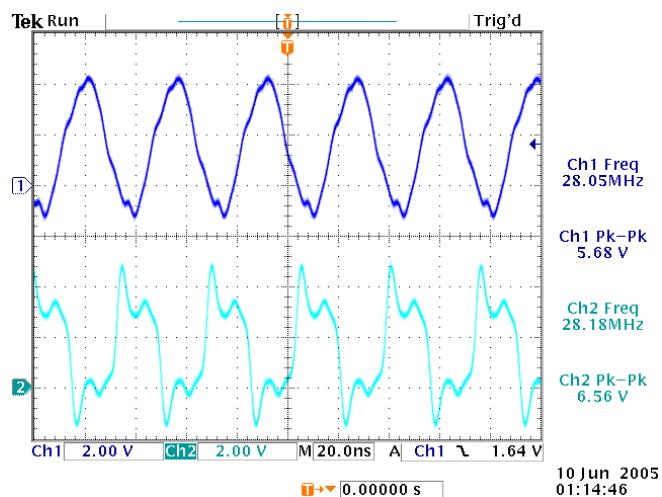
CH1 DATA2+ (P1 PIN 1); CH2 DATA2- (P1 PIN3)



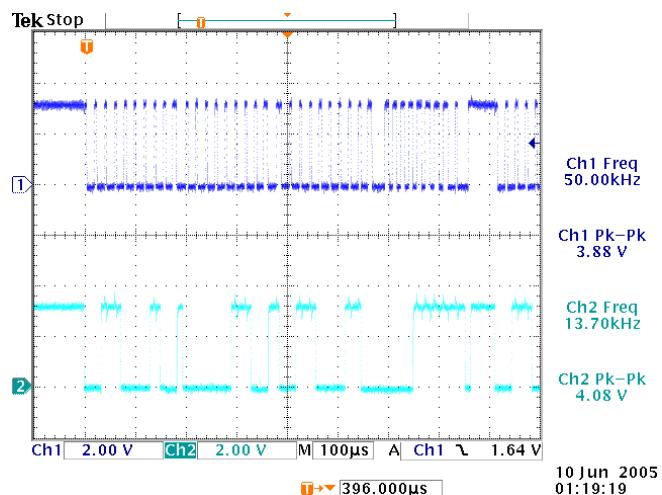
CH1 HDMI0 (U16 PIN 124) ;CH2 HDMI15 (U16 PIN 102)



CH1 XTLI (U16 PIN85) ;CH2 XTLO (U16 PIN86)

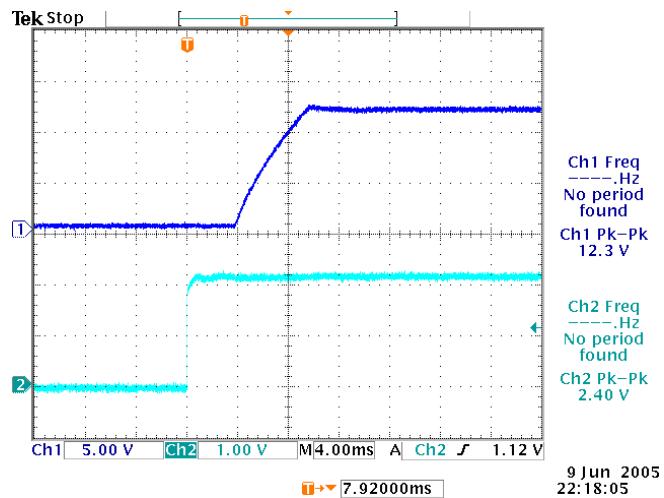


CH1 HDMI SDA (U16 PIN39);CH2 HDMI SCL (U16 PIN40)

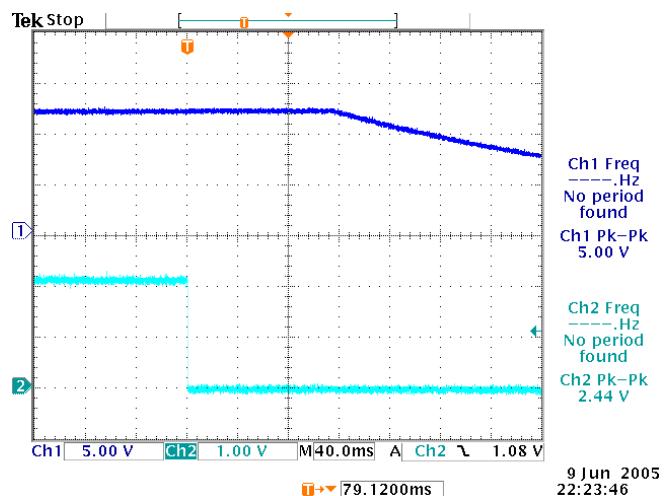


POWER ON/OFF

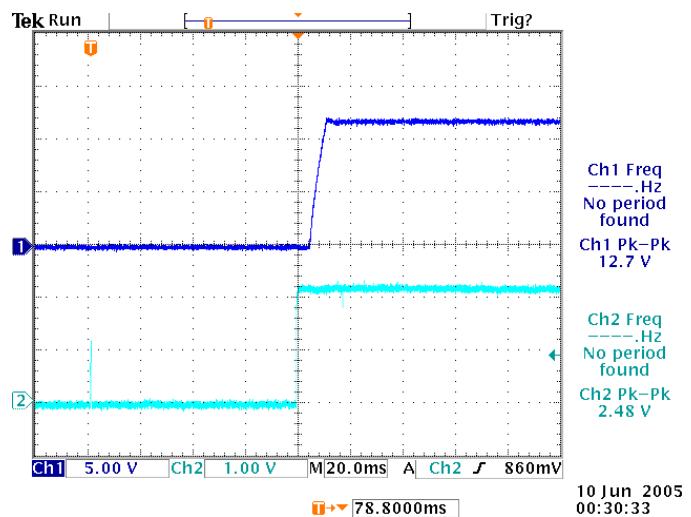
CH1 DV120B (F1); CH2 GPIO (R3); POWER ON



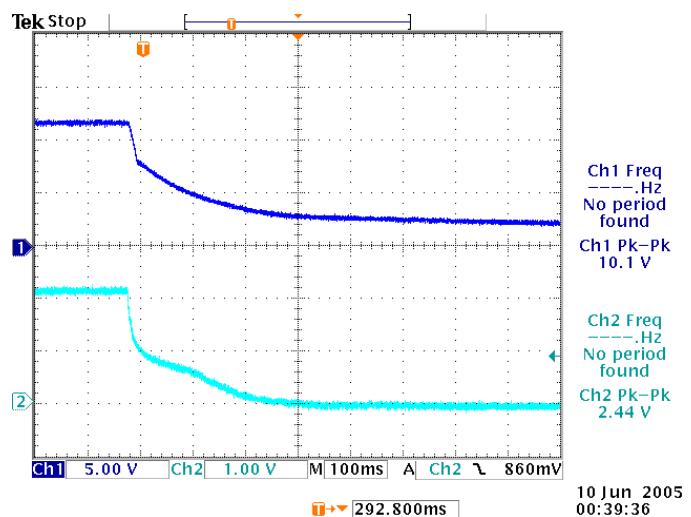
CH1 DV120B (F1); CH2 GPIO (R3); POWER OFF



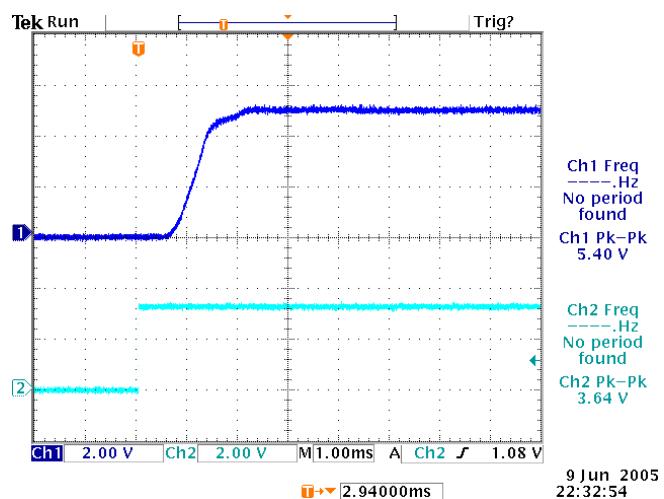
CH1 DV120B (F1); CH2 GPIO (R3); AC POWER ON



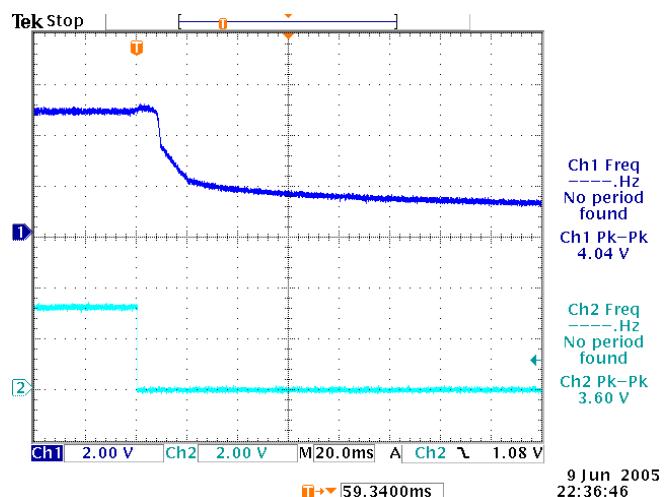
CH1 DV120B (F1); CH2 GPIO (R3); AC POWER OFF



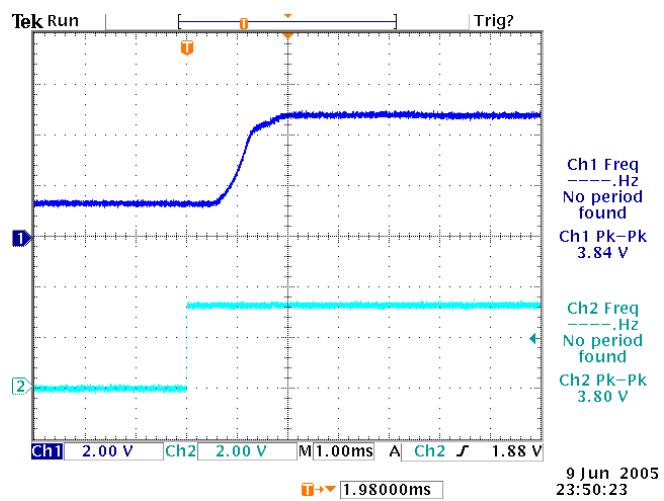
CH1 DV50B (U7 PIN8); CH2 GPIO (R3); POWER ON



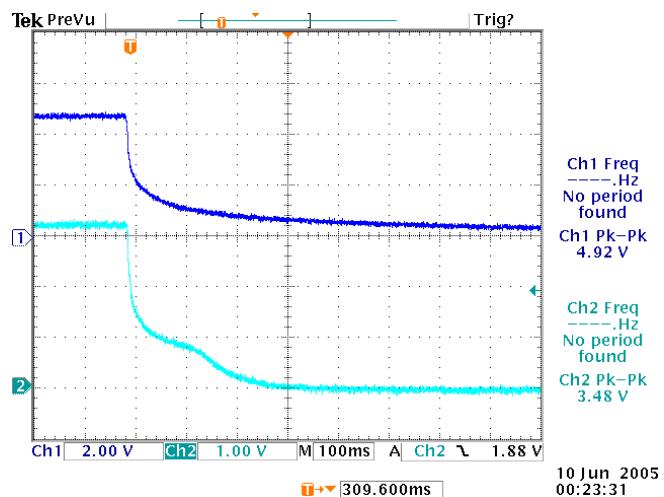
CH1 DV50B (U7 PIN8); CH2 GPIO (R3); POWER OFF



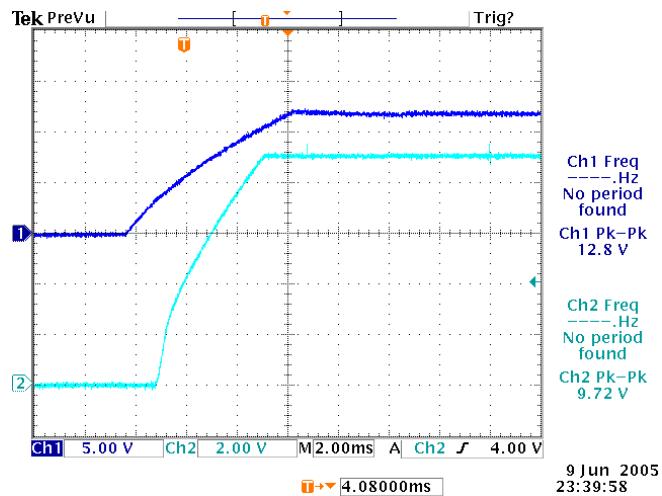
CH1 DV50B (U7 PIN8); CH2 GPIO (R3); POWER AC ON



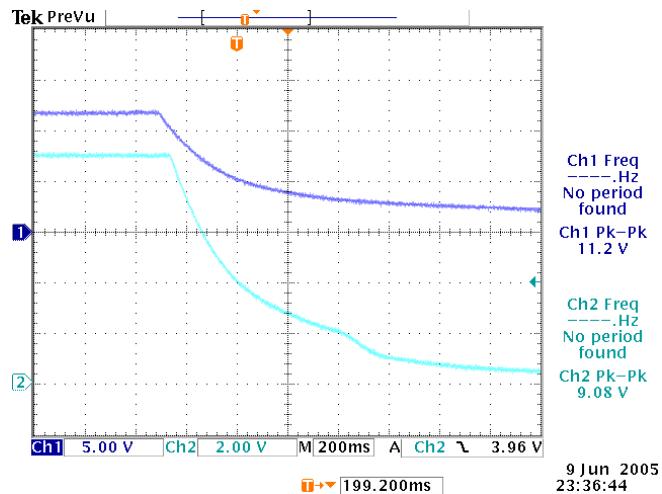
CH1 DV50B (U7 PIN8); CH2 GPIO (R3); POWER AC OFF



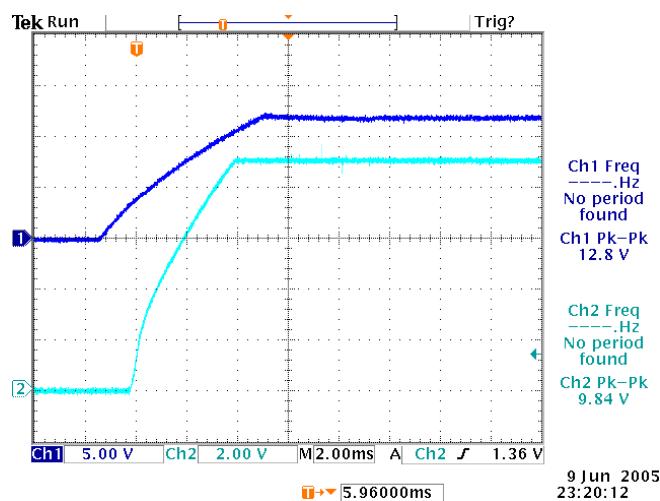
CH1 DV120B (U6 PIN1); CH2 AV_V90 (U6 PIN3) POWER ON



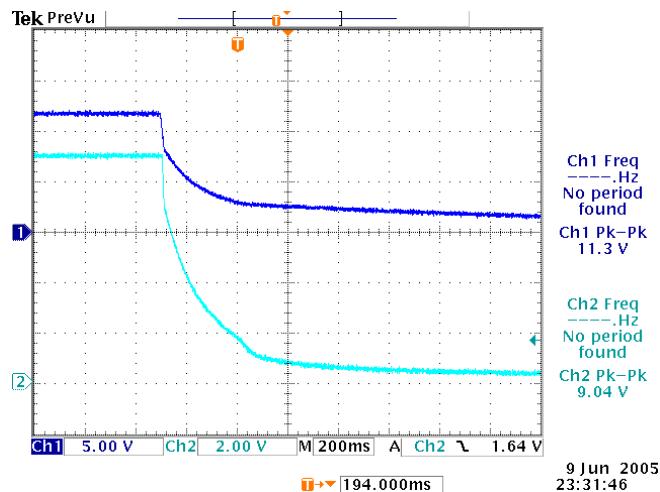
CH1 DV120B (U6 PIN1); CH2 AV_V90 (U6 PIN3) POWER OFF



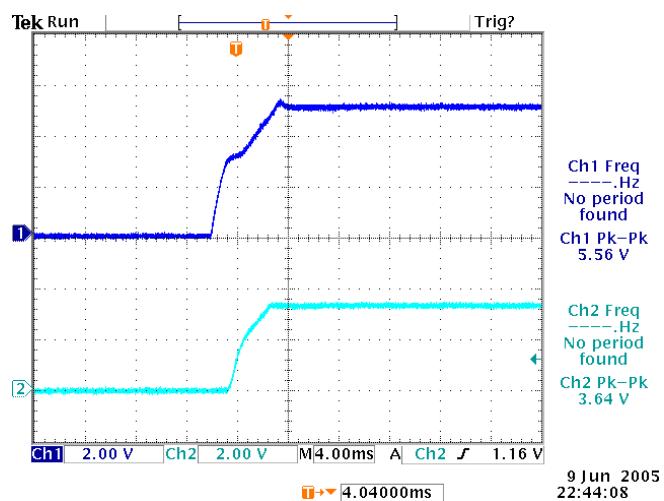
CH1 DV120B (U6 PIN1); CH2 AV_V90 (U6 PIN3) AC POWER ON



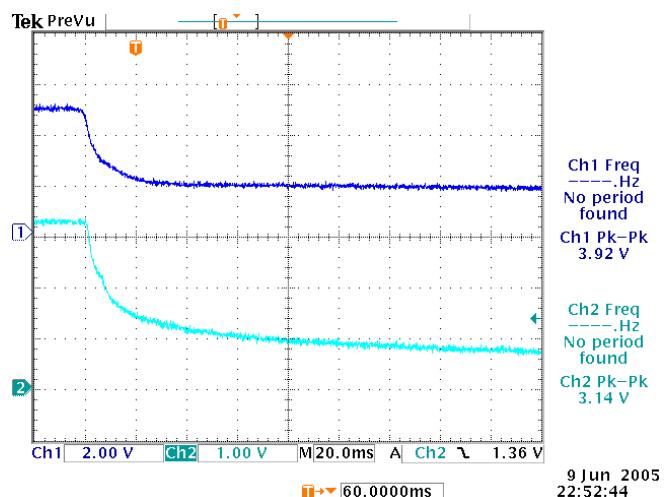
CH1 DV120B (U6 PIN1); CH2 AV_V90 (U6 PIN3) AC POWER OFF



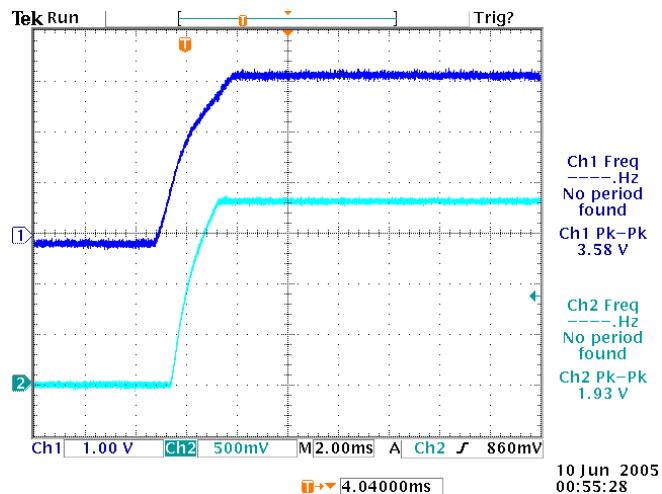
CH1 DV50A (U4 PIN1); CH2 DV33A (F3) AC POWER ON



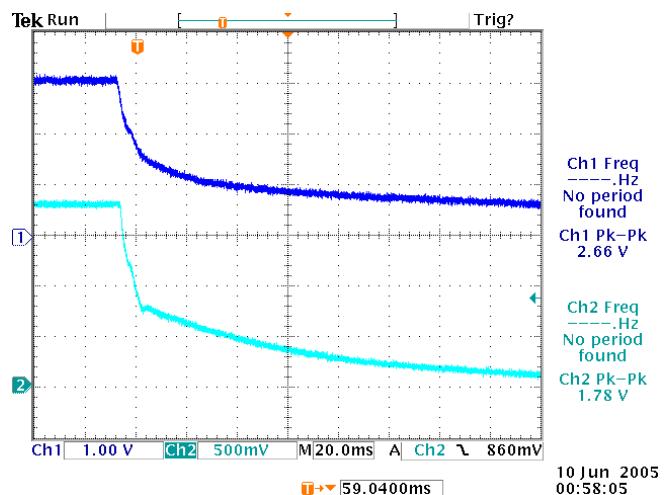
CH1 DV50A (U4 PIN1); CH2 DV33A (F3) AC POWER OFF



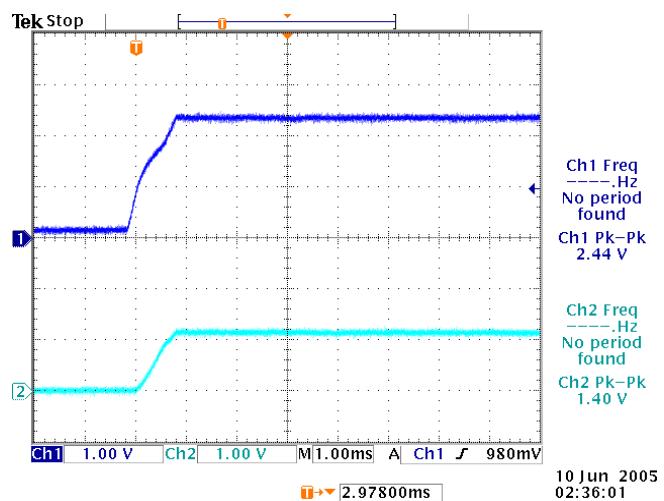
CH1 DV33A (U5 PIN 1); CH2 DV18A (U5 PIN2) AC POWER ON



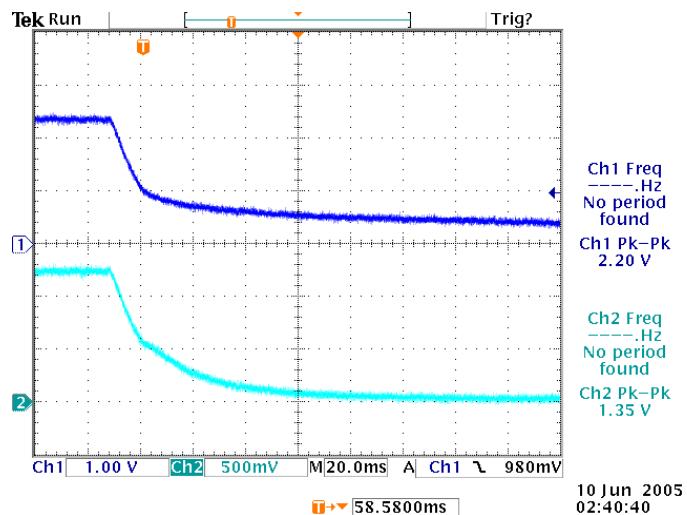
CH1 DV33A (U5 PIN 1); CH2 DV18A (U5 PIN2) AC POWER OFF



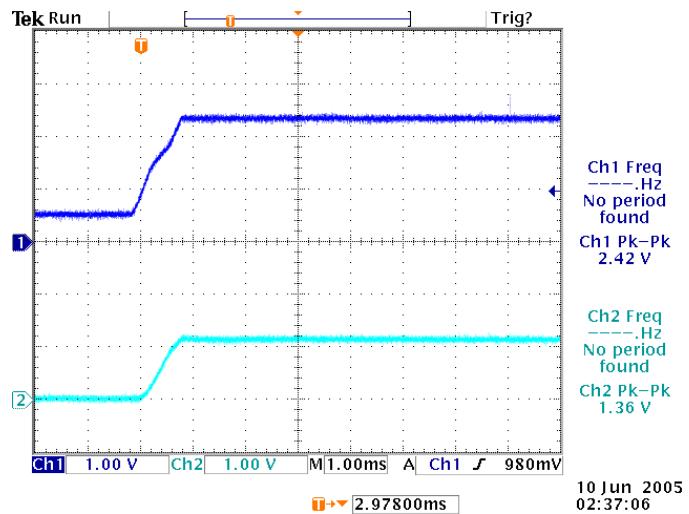
CH1 DV25 (U13 PIN7); CH2 D1V25 (U13 PIN3) POWER ON



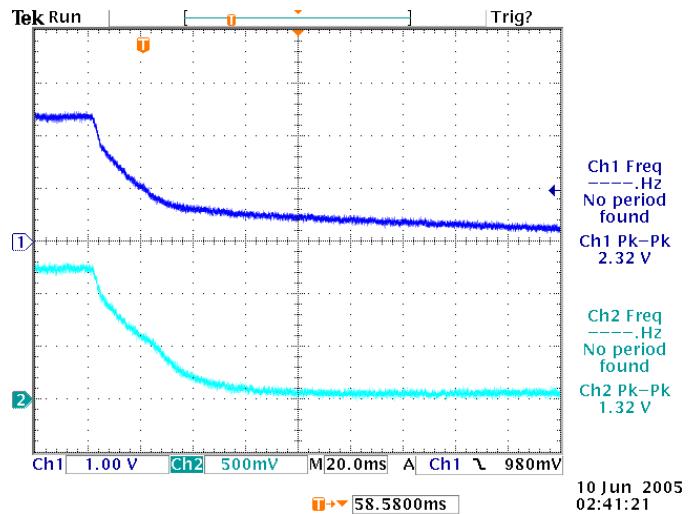
CH1 DV25 (U13 PIN7); CH2 D1V25 (U13 PIN3) POWER OFF



CH1 DV25 (U13 PIN7); CH2 D1V25 (U13 PIN3) AC POWER ON

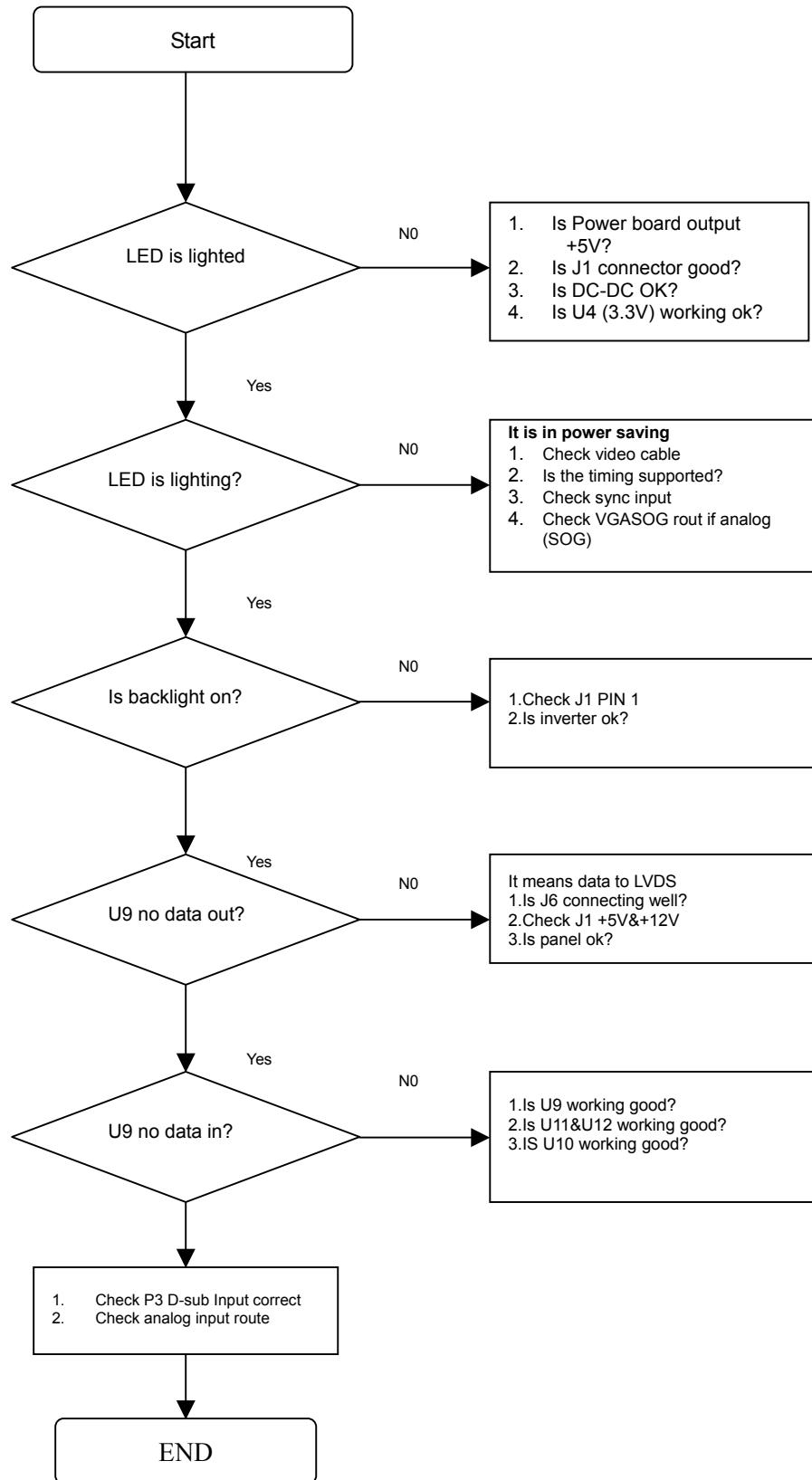


CH1 DV25 (U13 PIN7); CH2 D1V25 (U13 PIN3) AC POWER OFF

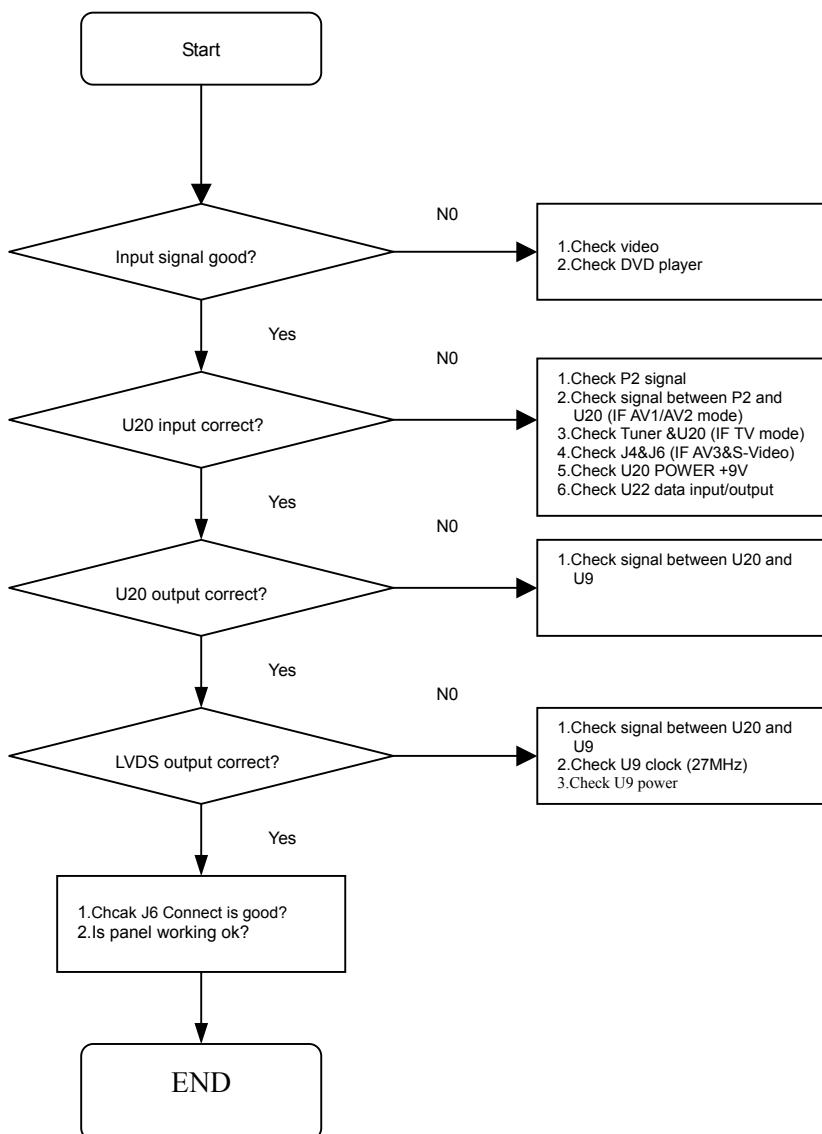


Chapter 9 Troubleshooting

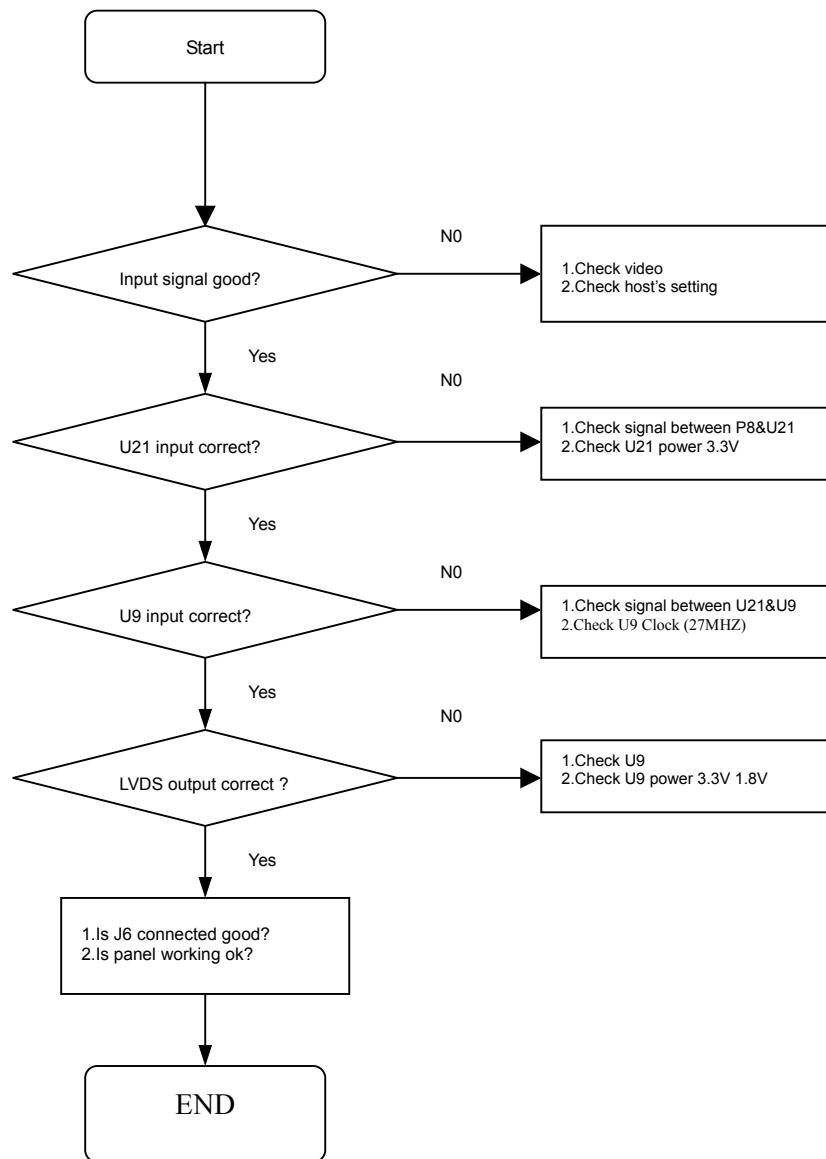
MONITOR DISPLAY NOTHING (PC MODE)



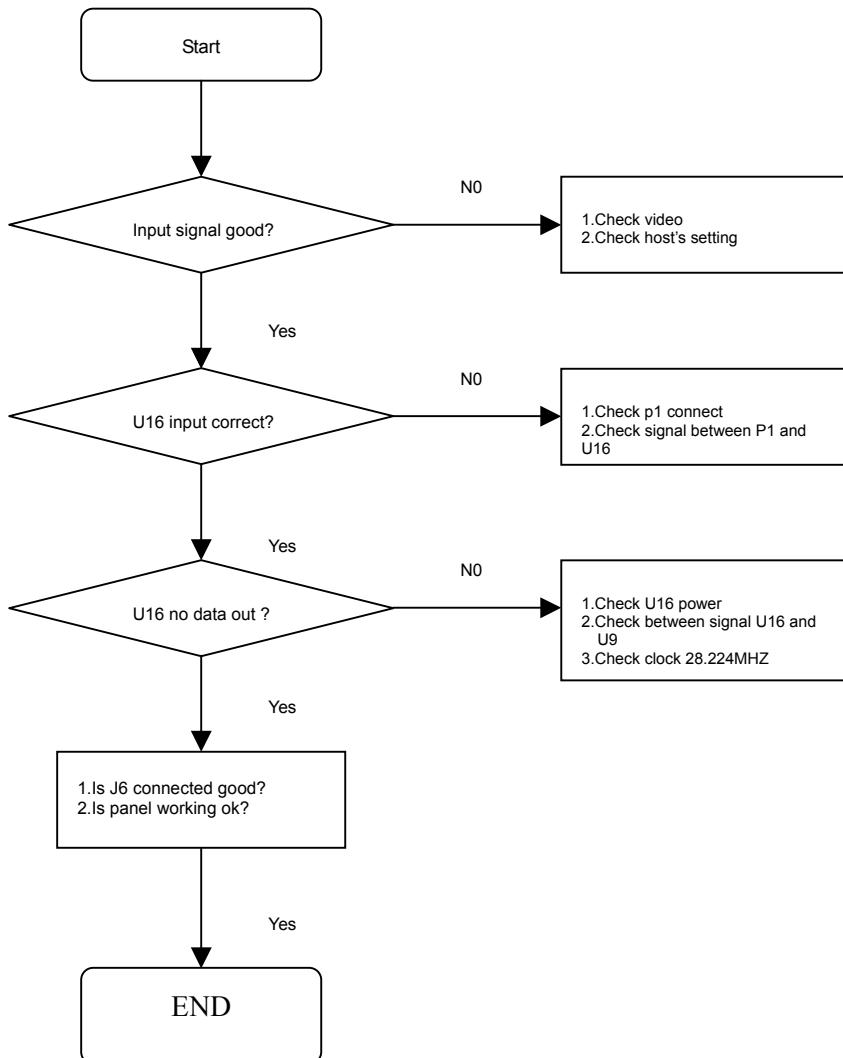
(TV, COMPOSITE VIDEO1, 2, 3, S-VIDEO) IS NOT DISPLAY CORRECTLY



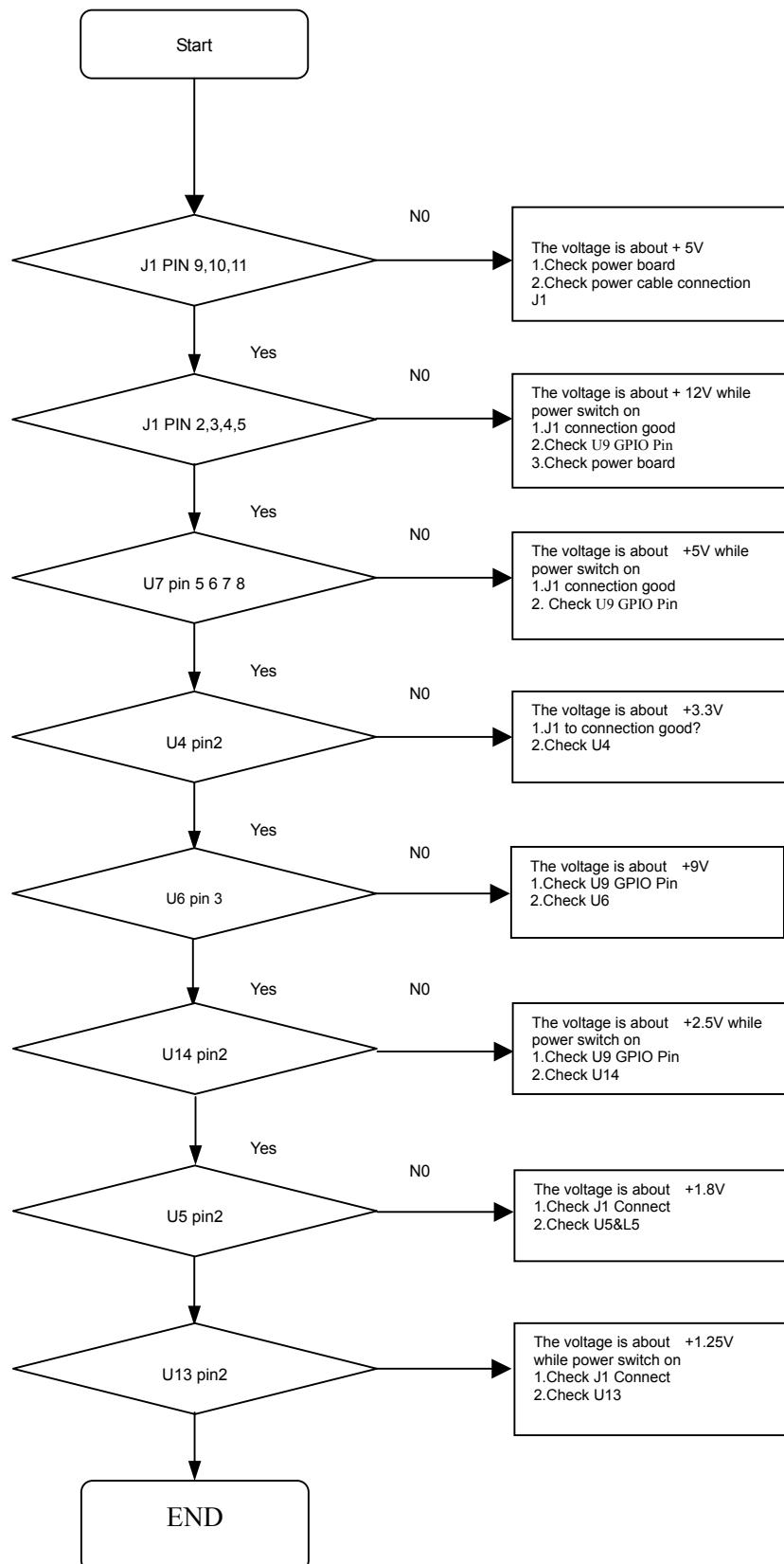
(COMPONENT1, 2) IS NOT DISPLAY CORRECTLY



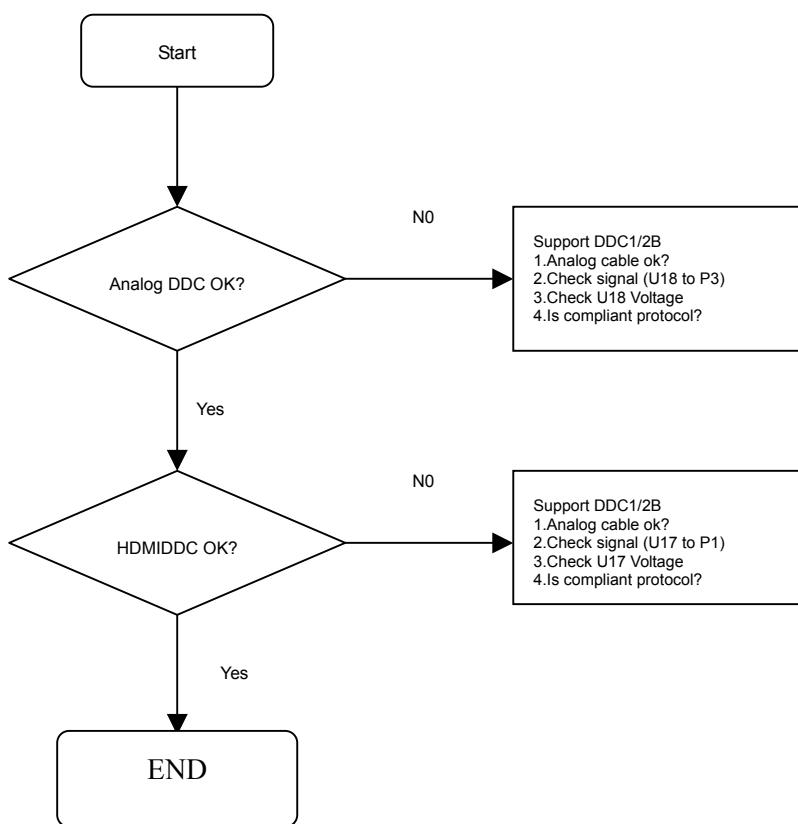
(HDMI) IS NOT DISPLAY CORRECTLY



TROUBLE OF DC-DC CONVERTER

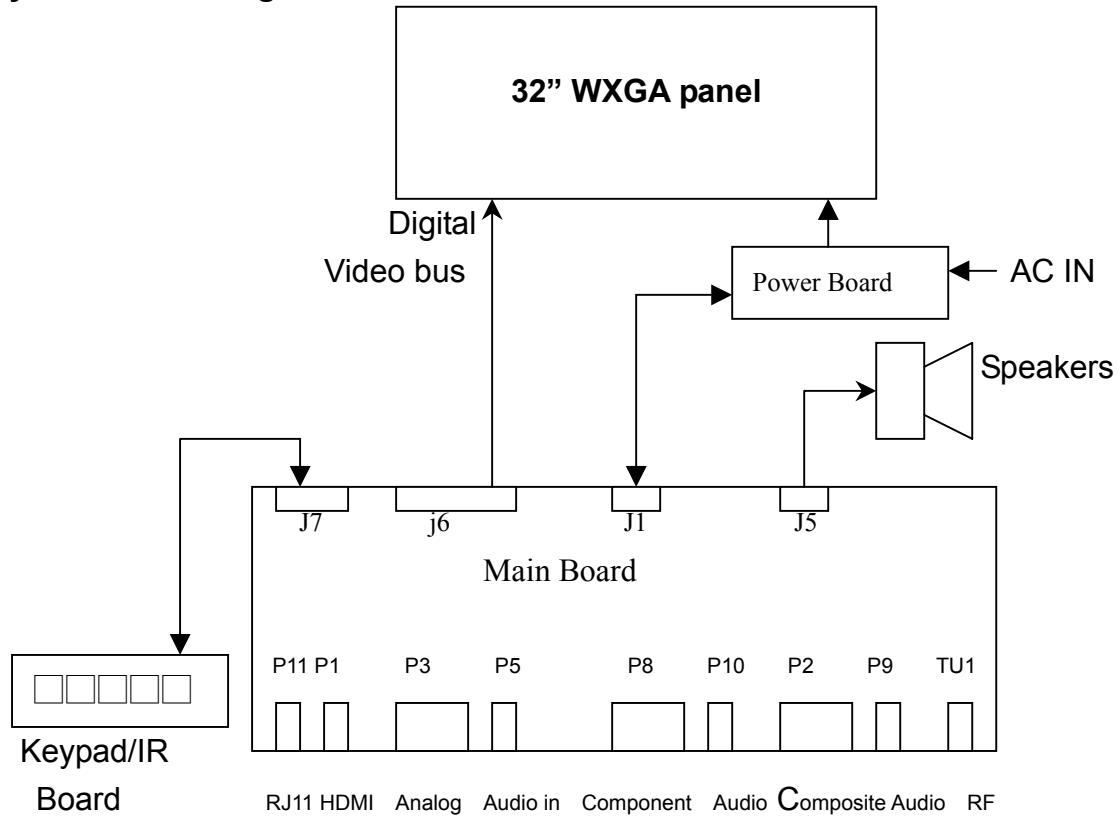


TROUBLE OF DDC READING



Chapter 10 Block Diagram

System Block Diagram



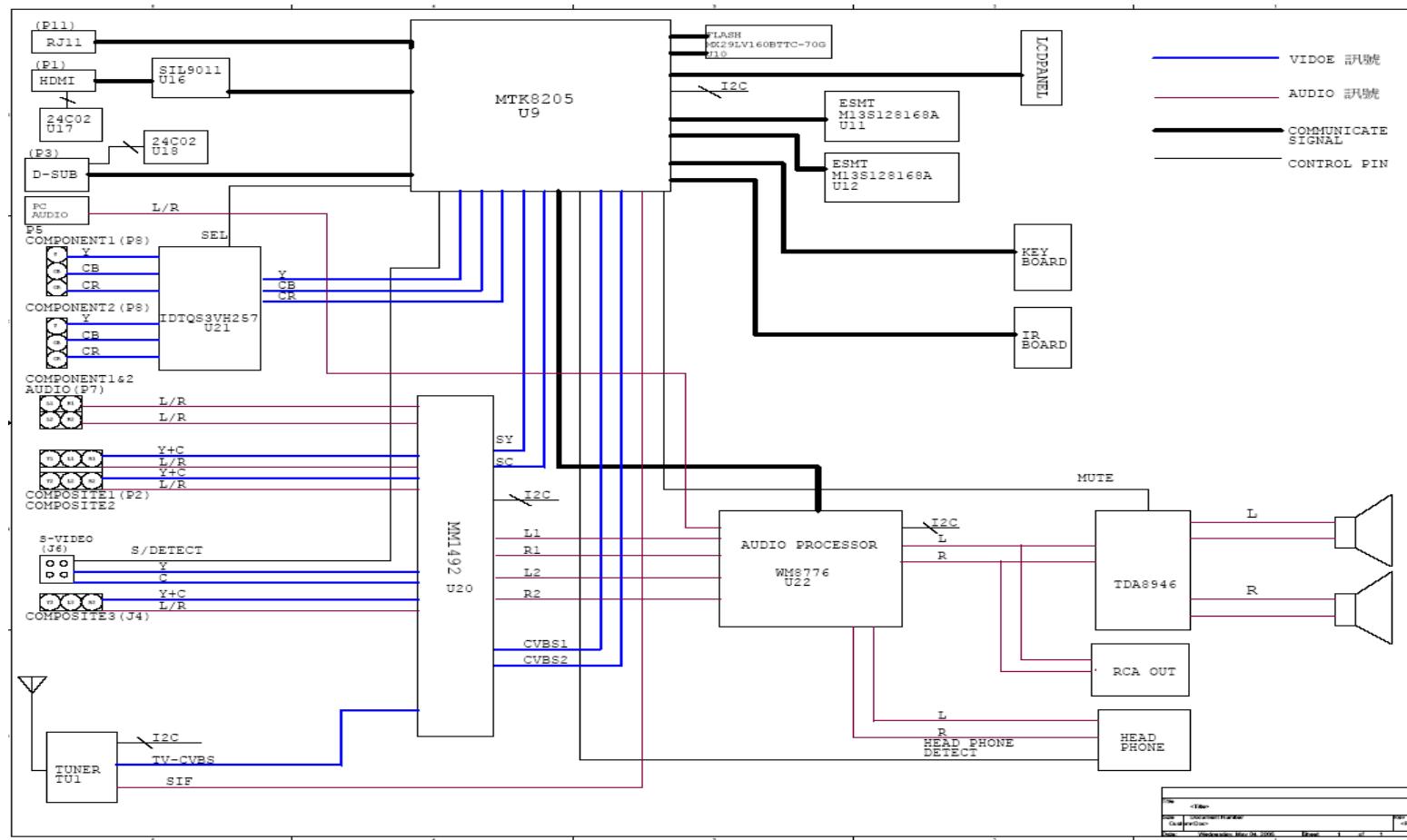
The TV system block diagram is powered by power board that transforms AC source of 100V~240V AC +/- 10% @ 50/60 HZ into DC 5V & 12V& 24Vsource. The main board receives different types of video signal into the MTK8205 Ic. Afterward, the MTK8205 Ic process the signals control the various functions of the monitor and outputs control signal, video signal and power to the 30" WXGA panel to be displayed.

The power send to the panel is first processed by the inverter. The function of the inverter is to step up the voltage supplied by the main board to the power that is needed to light up the lamps in the panel. Simultaneously, the digital video signals are processed in the panel and the outcome determines the brightness, pixel on/off and the color displayed on the panel. The analog video signals of S-video, YpbPr, TV, PC and A/V all video signals are translated from analog signals into MTK8205 generates the vertical and horizontal timing signals for display device.

The analog audio of s-video, YpbPr, TV, PC and A/V is transmitting to the WM877 processed.

The purpose is process the input audio signal to control volume, bass, treble, surround, and balance. The HDMI video and audio is must transmitting to sil9011 processed then TMDS signal to the MTK8205 generates the vertical and horizontal timing signals for display device. All functions are controllable by the main board. Plus, all functions in the IC boards are programmable using I2C Bus.

Main Board Block Diagram



CONFIDENTIAL – DO NOT COPY

Page 10-3

File No. SG-0168

Chapter 11 Spare Parts List

PART NO	DESCRIPTION	LOC	QTY	REMARK
0185-1202-0013	FUSE 125V/2A SMD (R451002)	F3	1	
0185-1302-0003	FUSE 125V/3A SMD (R451003)	F1	1	
0303-3000-0010	TV JACK 3/8-32UNEF (RF JACK)	TU1-1	1	
0304-1000-0110	CONN. HDMI 19P 90' SMD With Flange L-F	P1	1	
0320-4000-0142	POWER CORD 110V UL/CSA 1800mm BLK N.M. (VINC)		1	
0321-0000-0321	AV CABLE RCA(Y/W/R) 1800mm BLK (VINC)		1	
0420-1001-6601	POWER MOS IRF7316TR SMD 8PIN	U7	1	
0420-1002-4621	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	QF1,QF2,QF3,QF4	4	
0430-3006-0619	IC MM1492AF 44PIN SOP-44B	U20	1	
0430-6002-8079	IC AP1117E25LA SOT-223 L-F	U14	1	
0430-6004-5004	IC LM2596S-3.3 5PIN TO-263	U4	1	
0430-6009-7051	IC AME1117- 1.8SKFT SMD 3PIN (SOT-223) L-F	U15,U5	2	
0430-7027-4999	IC MT8205 388PIN BGA	U9	1	
1801-0119-3010	BEZEL (VIZIO L32)(PC+ABS, 433C) ASS'Y		1	
1801-0211-3010	REAR COVER (TM-32V)(PC+ABS, 433C) ASS'Y		1	
1925-1000-2510	EPS FORM_TR (TM-32V)		1	
1925-1000-2520	EPS FORM_TL (TM-32V)		1	
1925-1000-2550	EPS FORM_BR (TM-32V)		1	
1925-1000-2560	EPS FORM_BL (TM-32V)		1	
1925-1100-0230	PE BAG 320*230*0.04T		1	
1925-1100-0280	PE BAG (180W*290L*0.04t)(PE-LD)(ACC.-1)		1	
1925-1100-1970	PE BAG (850.0L*900.0W*0.3t)		1	
1925-1200-7080	ACCESSARY BOX (330W*230D*50H)		1	
1925-1200-7620	CARTON Vinc VIZIO L32		1	
1925-1200-7830	CARTON TRAY (TM-32V)		1	
1925-1300-6640	MANUAL Vinc VIZIO L32		1	
1925-1300-6650	QUICK SETUP GUIDE Vinc VIZIO L32		1	
1925-1400-2710	Register CARD/VIZIO L15		1	
1925-1400-2810	WARRANTY CARD Vinc VIZIO L32		1	
1925-1900-0460	Desiccant (100g) (Gateway SHD-3010)		1	
1925-1900-0540	CARTON Joint (AUGUSAT)		4	
1936-1100-7650	B/C LBL Vinc VIZIO L32		1	
1947-1200-0820	ACETATE CLOTH TAPE (醋酸布膠帶) 60*45mm		4	
1947-1700-0050	SHIELDING AL. TAPE (50.0*40.0)		2	
1947-1800-0120	GASKET BLOCK (17W*45H*30Lmm)		4	
1947-1800-0160	GASKET BLOCK (10.0W*13.0H*60.0L)		2	
1947-1800-0490	GASKET BLOCK (12L*10W*2.5Hmm) HOLE 6 φ		1	
1947-1800-0790	GASKET BLOCK (100L*10.0W*1.0H)mm		1	
1947-1900-0030	HEATPATH (25x14mm)		1	
3320-0012-0156	LCD DISPLAY BD ASS'Y			
3320-0012-0150	LCD MAIN BD ASS'Y			
3320-0012-0189	LCD IR BD ASS'Y			
3320-0012-0146	LCD CONNECTOR ASS'Y			

Chapter 12 Complete Parts List (Auo Panel)

2614-3485-0225 LCD MONITOR 32" VIZIO L32 (ABS, 433C)(AUO)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			3320-0012-0312	PACKING ASS'Y (VIZIO L32)	1
2			3320-0012-0334	BASE ASS'Y (TM-32V)(ABS, 877C)	1
3			3320-0022-0331	PANEL ASS'Y (V inc VIZIO L32)(AU)	1

3320-0012-0312 PACKING ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	OTV
1			1701-0516-0010	WIRE CLIP (VIZIO C20L) (PC TRANSPARENT/877C)	1
2			1701-0800-1510	REAR PLATE VIZIO L32	1
3			1925-1000-2510	EPS FORM_TR (TM-32V)	1
4			1925-1000-2520	EPS FORM_TL (TM-32V)	1
5			1925-1000-2550	EPS FORM_BR (TM-32V)	1
6			1925-1000-2560	EPS FORM_BL (TM-32V)	1
7			1925-1100-1970	PE BAG (850.0L*950.0W*0.3t)	1
8			1925-1200-7620	CARTON Vinc VIZIO L32	1
9			1925-1200-7830	CARTON TRAY (TM-32V)	1
10			1925-1900-0610	CARTON JOINT (TM-32V)	4
11			1936-1100-7650	B/C LBL Vinc VIZIO L32	1
12			3320-0012-0393	ACCESSARY ASS'Y (VIZIO L32)	1

3320-0012-0334 BASE ASS'Y (TM-32V)(ABS, 877C)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			1701-0516-2010	BASE (TM-32V)(ABS, 877C)	1
2			1701-1000-0180	BASE FOOT (φ 18.0*2.0t, PORON)	8
3			1701-1000-0430	BASE FOOT (TM-32V)	4
4			1712-0100-8110	BASE BRACKET BOTTOM (TM-32V)	2
5			1712-0100-8120	BASE BRACKET (TM-32V)	2
6			1720-3004-0820	MAC. SCREW-MF M4.0*8.0L,NI	8
7			1721-3004-0800	SCREW,Fate Head,T4.0*8.0L,Zn	8

3320-0022-0331 PANEL ASS'Y (V inc VIZIO L32)(AU)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			0211-0315-0477	LCD MODULE 31.5" TFT T315XW01(V2)(AT)	1
2			0260-0000-0221	AC INLET +VHR5P 1617#22 500mm 1015#18 100mm +TUBE	1
3			0335-0008-0250	SPEAKER 8ohm 10W 155*86mm P302F	1
4			0460-1004-0301	WH PH4P-PH4P 1061#26 80mm	1
5			0460-1012-0171	WH PH12P-PH12P 1061#26 450mm SHIELDING	1
6			0460-1013-0061	WH PH13P-A254313P 1007#24 480mm	1
7			0460-1014-0030	WH PH14P-A254312P 1007#24 520mm	1
8			0460-2830-0090	FFC 30P(0.5mm) 250mm	1
9			0460-3430-0650	WH DF14-30P/FI-E30H 20276#30 160mm	1
10			0500-0502-0101	POWER BD ASS'Y 0469D03 REV A	1
11			1701-1923-0010	CARD READER COVER (TM-32V)(ABS, 433C)	1
12			1712-0100-4590	HEAT SINK FIX MTEAL (TM-30A)	1
13			1712-0100-8040	CHASSIS FOR MAIN BD (TM-32V)	1
14			1712-0100-8050	SHIELDING FOR MAIN BD (TM-32V)	1
15			1712-0100-8060	I/O PLATE BRACKET (TM-32V)	1
16			1712-0100-8071	PANEL BRACKET-R (TM-32V)	1
17			1712-0100-8100	BASE BRACKET TOP (TM-32V)	2
18			1712-0100-8130	POWER SHIELDING (TM-32V)	1
19			1712-0100-8140	POWER BRACKET (TM-32V)	1
20			1712-0100-8221	PANEL BRACKET-L (TM-32V)	1
21			1712-0100-8680	PANEL HOLDER TOP (TM-32V_AUO)	2
22			1712-0100-8690	PANEL HOLDER SIDE (TM-32V_AUO)	2
23			1712-0400-0720	HEAT SINK (PD-42S)	1
24			1720-0003-0420	MAC SCREW-MB M3.0*4.0L,Ni	1
25			1720-0003-0620	MAC. SCREW-MB M3.0*6.0L,Ni	14
26			1720-0004-0520	MAC. SCREW-MB M4.0*5.0L,Ni	26
27			1720-0004-1020	MAC. SCREW-MB M4.0*10.0L Ni	4
28			1720-1204-0820	MAC. SCREW-MPGW M4.0*8.0L,Ni	1
29			1720-1504-0820	MAC. SCREW-MPSWF M4.0*8.0L,NI	18
30			1720-1504-1450	MAC. SCREW-MPSWF M4.0*14.0L Blk-Ni	4
31			1720-3003-0820	MAC. SCREW-MF M3.0*8.0L,NI	2
32			1720-7344-0820	MAC. SCREW-MHSW #4-40*8.0L,Ni	2
33			1721-0003-0820	TAP. SCREW-TB #3.0*8.0L,NI	7
34			1721-0004-0820	TAP. SCREW-TP #4.0*8.0L,NI	2
35			1721-0004-1050	TAP. SCREW-TP #4.0*10.0L, BLK-Ni	10
36			1721-0004-1620	TAP. SCREW-TP #4.0*16.0L,NI	6
37			1721-0504-1020	TAP SCREW-MBSFW #TP4.0*10.0L, Ni	8
38			1721-2103-1050	TAP. SCREW-TRFW #3.0*10.0L,BLK-NI	4
39			1721-3003-0850	TAP. SCREW-TF #M3.0X8.0L,BLK-Ni	2
40			1721-4104-1220	TAP. SCREW-TRF #4.0*12.0L,Ni	6
41			1801-0119-3011	BEZEL (VIZIO L32)(ABS, 433C) ASS'Y	1
42			1801-0211-3010	REAR COVER (TM-32V)(ABS, 433C) ASS'Y	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
43			1947-1200-0310	ACETATE CLOTH TAPE (醋酸布膠帶) 27*75mm	2
44			1947-1200-0400	ACETATE CLOTH TAPE (醋酸布膠帶) 20*45mm	6
45			1947-1200-0820	ACETATE CLOTH TAPE (醋酸布膠帶) 60*45mm	5
46			1947-1700-0050	SHIELDING AL. TAPE (50.0*40.0)	2
47			1947-1800-0120	GASKET BLOCK (17W*45H*30Lmm)	4
48			1947-1800-0160	GASKET BLOCK (10.0W*13.0H*60.0L)	2
49			1947-1800-0490	GASKET BLOCK (12L*10W*2.5Hmm) HOLE 6 φ	1
50			1947-1800-0660	Gasket Block (10.0W*2.0H*100.0L mm)	1
51			1947-1800-0790	GASKET BLOCK (100L*10.0W*1.0H)mm	2
52			1947-1900-0030	HEATPATH (25x14mm)	1
53			1947-2000-1011	RUBBER PAD-A (TM-32V)	6
54			1947-2000-1021	RUBBER PAD-B (TM-32V)	2
55			3320-0012-0146	LCD CONNECTOR BD ASS'Y (VIZIO L32)	1
56			3320-0012-0156	LCD DISPLAY BD ASS'Y (VIZIO L32)	1
57			3320-0012-0189	LCD IR BD ASS'Y (VIZIO L32)	1
58			3320-0032-0150	LCD MAIN BD ASS'Y (VIZIO L32)(AU)	1

3320-0012-0146 LCD CONNECTOR BD ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			0171-3841-0033	PCB CONNECTOR BD FR4 115*27*1.6t (VIZIO L32)	1
2		C1	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
3	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
4		C2	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
5	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
6		J1	0303-1000-0304	CONN. B TO FPC FH12-30S-0.5SH	1
7		J3	0302-0350-0011	PHONE JACK 3.5 φ 5PIN 90 ° +SHIELDING	1
8		J4	0302-9030-0014	RCA JACK 1ROW 3I/O (Y-W-R)	1
9		J6	0300-3041-0090	S-VIDEO 4PIN 90° (2MJ-0602-005) L-F	1
10		R7	0130-2208-0055	RES. CF 2.2ohm 1/10W J 0603	1
11		R8	0130-2208-0055	RES. CF 2.2ohm 1/10W J 0603	1

3320-0012-0156 LCD DISPLAY BD ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			0170-1740-1412	PCB DISPLAY RD V0 141*25*1 6t (VIZIO L32)	1
2		AJD1	0451-2003-1263	WAFER 2.0mm 12P 90° KINK (A2001WR2-12P) L-F	1
3	SS		0451-2000-1266	WAFER 2.0mm 12P 90° DIP KINK (M242612R) L-F	
4		AJD2	0451-2000-0466	WAFER 2.0mm 4P 90° DIP KINK (M24264R) L-F	1
5		SWD1	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
6	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
7		SWD2	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
8	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
9		SWD3	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
10	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
11		SWD4	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
12	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
13		SWD5	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
14	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
15		SWD6	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
16	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
17		SWD7	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
18	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
19		SWD8	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
20	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	

3320-0012-0189 LCD IR BD ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			0170-1640-0302	PCB IR RD V0 30*25*1.6t (VIZIO L32)	1
2		CI3	0111-1104-5102	C/C DISK 0.1UF 50V Y5V F-K	1
3		DI1	0440-5000-0030	LED L-3WYGW 3 φ	1
4		JI1	0451-2000-0466	WAFER 2.0mm 4P 90° DIP KINK (M24264R) L-F	1
5		QI1	0410-2000-3106	TRANSISTOR 2SC1213AC TO-92 T	1
6	CS		0410-2000-3119	TRANSISTOR KTC200-O/Y TO-92 T	1
7		QI2	0410-0000-2106	TRANSISTOR 2SA673AC TO-92 T	1
8	CS		0410-0000-2119	TRANSISTOR KTA200-O/Y TO-92 T	1
9		RI1	0130-4709-1850	RES. CF 47ohm 1/8W J A	1
10		RI3	0130-2200-1850	RES. CF 220ohm 1/8W J A	1
11		RI4	0130-4700-1850	RES. CF 470ohm 1/8W J A	1
12		RI5	0130-3301-1850	RES. CF 3.3Kohm 1/8W J A	1
13		RI6	0130-3301-1850	RES. CF 3.3Kohm 1/8W J A	1
14		RI7	0130-3301-1850	RES. CF 3.3Kohm 1/8W J A	1
15		UI1	0980-0200-2030	MODULE. IR RECEIVER (FM-6038LM-5A)	1
16		UI1S	1701-1500-0360	IR HOLDER (TM-15A)	1

3320-0012-0393 ACCESSORY ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			0320-4000-0142	POWER CORD 110V UL/CSA 1800mm BLK N M (VINC)	1
2			0321-0000-0411	AV CABLE RCA(Y/W/R) 1800mm BLK (VINC)	1
3			0602-1000-0020	Battery Zn-Carbon 1.5V AA	2
4	SS		0602-3000-0020	Battery Zn-Carbon 1.5V AA	
5			0980-0303-5010	REMOTE CONTROL Vinc VIZIO L32	1
6			1925-1100-0230	PE BAG 320*230*0.04T	1
7			1925-1100-0280	PE BAG (180W*290L*0.04t)(PE-LD)(ACC.-1)	1
8			1925-1200-7080	ACCESSORY BOX (330W*230D*50H)	1
9			1925-1300-6641	MANUAL Vinc VIZIO L32	1
10			1925-1300-6650	QUICK SETUP GUIDE Vinc VIZIO L32	1
11			1925-1400-2710	Register CARD/VIZIO L15	1
12			1925-1400-2810	WARRANTY CARD Vinc VIZIO L32	1
13			1925-1400-2821	Flyer VIZIO L32,P50HDM	1

3320-0032-0150 LCD MAIN BD ASS'Y (VIZIO L32)(AU)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			332000320150A	LCD MAIN BD ASS'Y (VIZIO L32)(AU) AT	1
2			332000320150M	LCD MAIN BD ASS'Y (VIZIO L32)(AU) MI	1
3			332000320150S	LCD MAIN BD ASS'Y (VIZIO L32)(AU) SMD	1

3320-0032-0150A LCD MAIN BD ASS'Y (VIZIO L32)(AU) AI

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1		CA2	0103-1102-1216	E/C VZ 1000uF 16V 105'C F (10*12.5)	1
2		CA4	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
3		CA6	0103-1471-1211	E/C VZ 470uF 16V 105'C F-T (8*11.5mm)	1
4		CA7	0103-1471-1211	E/C VZ 470uF 16V 105'C F-T (8*11.5mm)	1
5		CE1	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
6		CE10	0103-1102-1216	E/C VZ 1000uF 16V 105'C F (10*12.5)	1
7		CE11	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
8		CE12	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
9		CE13	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
10		CE18	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
11		CE19	0103-1109-1511	E/C VT 1uF 50V 105'C F-T (5*11mm)	1
12		CE2	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
13		CE20	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
14	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
15		CE21	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
16	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
17		CE22	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
18		CE23	0103-1471-1211	E/C VZ 470uF 16V 105'C F-T (8*11.5mm)	1
19		CE25	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
20		CE27	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
21		CE28	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
22		CE29	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
23		CE30	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
24		CE31	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
25		CE32	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
26		CE35	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
27		CE36	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
28		CE38	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
29		CE39	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
30		CE4	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
31	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
32		CE41	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
33		CE42	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
34		CE43	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
35		CE44	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
36	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
37		CE45	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
38		CE46	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
39		CE47	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
40	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
41		CE48	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
42	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
43		CE49	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
44	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
45		CE50	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
46	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
47		CE51	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
48		CE52	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
49	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
50		CE53	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
51	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
52		CE54	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
53		CE55	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
54		CE56	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
55		CE57	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
56		CE58	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
57		CE59	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
58		CE60	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
59		CE61	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
60		CE62	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
61		CE63	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
62		CE64	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
63		CE65	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
64		CE66	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
65		CE67	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
66		CE68	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
67		CE69	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
68		CE70	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
69		CE71	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
70		CE76	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
71	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
72		CE77	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
73	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
74		CE78	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
75		CE79	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
76		CE8	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
77		CE80	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
78	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
79		CE81	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
80	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
81		CE82	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
82	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
83		CE83	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
84	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
85		CE85	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
86	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
87		CE86	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	
88	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
89		CE87	0103-1100-1211	E/C VT 10nF 16V 105'C F-T (5*11mm)	1
90	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
91		CE88	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
92	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
93		CE89	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
94	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
95		CE9	0103-1102-1216	E/C VZ 1000uF 16V 105'C F (10*12.5)	1
96		CE90	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
97	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
98		CE91	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
99	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
100		CE92	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
101		CE93	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
102		CE97	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
103		D2	0390-6001-4060	SCHOTTKY DIODE SB560 T	1
104		L19	0370-0000-1010	FERRITE CORE RH 3.5X6X1.0(W)X2	1
105		L20	0370-0000-1010	FERRITE CORE RH 3.5X6X1.0(W)X2	1

3320-0032-0150M LCD MAIN BD ASS'Y (VIZIO L32)(AU) MI

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1		I1	0451-2000-1366	WAFER 2.0mm 13P 90° DIP KINK (M242613R) I.-F	1
2		J5	0451-2500-0443	WAFER 2.50mm 4P 90° KINK (A2501WR2-4P) L-F	1
3		J7	0451-2000-1263	WAFER 2.00MM 12P 90° KINK	1
4	CS		0451-2000-1264	WAFER 2.00MM 12P 90° KINK	
5	SS		0451-2003-1263	WAFER 2.00mm 12P 90° KINK (A2001WR2-12P) L-F	
6		L2	0361-2047-0020	COIL CHOKE 47uH 1.6A 11*14 DIP	1
7		L4	0360-1000-0150	COIL CHOKE 70uH 3A	1
8		P10	0302-9040-0010	RCA JACK 2ROW 4I/O 90° (W-R) L-F	1
9		P11	0202-0000-6002	RJ11 6P6C UNDER CONTACT	1
10		P2	0302-9030-0037	RCA JACK 2ROW 3I/O (Y-W-R)	1
11		P3	0300-1202-3150	D-SUB FEMALE 90° 15P 3ROW (PC99)	1
12		P5	0302-0350-0011	PHONE JACK 3.5 φ 5PIN 90 ° +SHIELDING	1
13		P8	0302-9060-0020	RCA JACK 2ROW 6I/O (G-B-R)	1
14		P9	0302-9020-0014	RCA JACK 2ROW 2I/O (W-R)	1
15		SW1	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
16	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
17		TU1	0980-0102-3010	MODULE TUNER (FQ1236/PH-5)	1
18		TU1-1	0303-3000-0010	TV JACK 3/8-32UNEF (RF JACK)	1
19		UA1	0430-4013-3109	IC TDA8946AJ 17PIN DIP LF	1
20		U6	0430-6004-2235	IC KA7809 3PIN TO-220	1
21		Y1	0280-2700-0012	X'TAL 27MHZ 49/US 30PPM 20PF 40ohm	1
22		Y2	0280-2820-0112	X'TAL 28.224MHZ 49US 30PPM 12PF	1

3320-0032-0150S LCD MAIN BD ASS'Y (VIZIO L32)(AU) SMD

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			0171-2242-1794	PCB MAIN BD FR4 265*140*1 6t 4M (VIZIO L32)	1
2		CA1	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
3	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
4		CA10	0111-3474-1636	C/M Multi. 0.47uF 16V Y5V 0603	1
5		CA11	0111-3474-1636	C/M Multi. 0.47uF 16V Y5V 0603	1
6		CA12	0111-3474-1636	C/M Multi. 0.47uF 16V Y5V 0603	1
7		CA13	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
8	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
9		CA16	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
10		CA17	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
11		CA3	0111-3474-1636	C/M Multi. 0.47uF 16V Y5V 0603	1
12		CA5	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
13		CA8	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
14	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
15		CA9	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
16		CB1	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
17		CB10	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
18		CB100	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
19		CB101	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
20		CB102	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
21		CB103	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
22		CB104	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
23		CB105	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
24		CB106	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
25		CB107	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
26		CB108	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
27		CB109	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
28		CB11	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
29		CB110	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
30		CB111	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
31		CB112	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
32		CB113	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
33		CB114	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
34		CB115	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
35		CB116	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
36		CB117	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
37		CB118	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
38		CB119	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
39		CB12	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
40		CB121	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
41		CB122	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
42		CB123	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
43		CB124	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
44		CB125	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
45		CB126	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
46		CB127	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
47		CB128	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
48		CB129	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
49		CB13	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
50		CB131	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
51		CB132	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
52		CB136	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
53		CB137	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
54		CB138	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
55		CB139	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
56		CB14	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
57		CB140	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
58		CB141	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
59		CB142	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
60		CB143	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
61		CB144	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
62		CB145	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
63		CB146	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
64		CB147	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
65		CB148	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
66		CB149	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
67		CB15	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
68		CB150	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
69		CB151	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
70		CB152	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
71		CB153	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
72		CB154	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
73		CB155	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
74		CB156	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
75		CB157	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
76		CB158	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
77		CB159	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
78		CB16	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
79		CB160	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
80		CB161	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
81		CB162	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
82		CB163	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
83		CB164	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
84	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
85		CB165	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
86		CB166	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
87		CB167	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
88		CB168	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
89		CB169	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
90		CB17	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
91		CB170	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
92		CB171	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
93		CB172	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
94		CB173	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
95		CB174	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
96		CB175	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
97		CB176	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
98		CB177	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
99		CB178	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
100		CB179	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
101		CB180	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
102		CB181	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
103	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
104		CB19	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
105		CB2	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
106		CB20	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
107		CB21	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
108		CB22	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
109		CB23	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
110		CB24	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
111		CB25	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
112		CB26	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
113		CB27	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
114		CB28	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
115		CB29	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
116		CB3	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
117		CB30	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
118		CB31	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
119		CB32	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
120		CB33	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
121		CB34	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
122		CB35	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
123		CB36	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
124		CB37	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
125		CB38	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
126		CB40	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
127		CB41	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
128		CB43	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
129		CB44	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
130		CB45	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
131		CB46	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
132		CB47	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
133		CB51	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
134		CB52	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
135		CB53	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
136		CB54	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
137		CB55	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
138		CB57	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
139		CB58	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
140		CB59	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
141		CB60	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
142		CB61	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
143		CB62	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
144		CB63	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
145		CB64	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
146		CB65	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
147		CB66	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
148		CB67	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
149		CB68	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
150		CB69	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
151		CB70	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
152		CB71	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
153		CB72	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
154		CB73	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
155		CB74	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
156		CB75	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
157		CB76	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
158		CB77	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
159		CB78	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
160		CB79	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
161		CB80	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
162		CB81	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
163		CB82	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
164		CB83	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
165		CB84	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
166		CB85	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
167		CB86	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
168		CB87	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
169		CB88	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
170		CB89	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
171		CB9	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
172		CB90	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
173		CB91	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
174		CB92	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
175		CB99	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
176		C1	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
177		C100	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
178		C101	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
179		C102	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402	1
180		C103	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
181		C104	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
182		C105	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
183		C106	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
184		C107	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
185		C108	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402	1
186		C109	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
187		C11	0111-3270-5107	C/M MULTI 27PF 50V NPO 0402	1
188		C110	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
189		C111	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
190		C112	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
191		C113	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
192		C114	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402	1
193		C115	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
194		C116	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
195		C117	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402	1
196		C118	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402	1
197		C119	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
198		C12	0111-3270-5107	C/M MULTI 27PF 50V NPO 0402	1
199		C120	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
200		C121	0111-3330-5107	C/M Multi. 33PF 50V NPO 0402	1
201		C122	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
202		C123	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
203		C124	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
204		C125	0111-3330-5107	C/M Multi. 33PF 50V NPO 0402	1
205		C126	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
206		C127	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
207		C128	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
208		C129	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
209		C13	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
210		C130	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
211		C131	0111-3330-5107	C/M Multi. 33PF 50V NPO 0402	1
212		C132	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
213		C133	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
214		C134	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
215		C140	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
216		C15	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
217	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
218		C16	0111-3152-5117	C/M Multi. 1500PF 50V X7R 0402	1
219		C17	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
220		C18	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
221		C19	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
222		C2	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
223		C20	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
224		C21	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
225		C23	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
226		C24	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
227	C25		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
228	C26		0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
229	C27		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
230	C28		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
231	C29		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
232	C3		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
233	C30		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
234	C31		0111-3180-5107	C/M Multi. 18PF 50V NPO 0402	1
235	C32		0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
236	C33		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
237	C35		0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
238	C37		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
239	C4		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
240	C43		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
241	C44		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
242	C46		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
243	C47		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
244	C48		0111-3120-5107	C/M Multi. 12PF 50V NPO J 0402	1
245	C49		0111-3120-5107	C/M Multi. 12PF 50V NPO J 0402	1
246	C5		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
247	C50		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
248	C51		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
249	C52		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
250	C53		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
251	C54		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
252	C55		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
253	C56		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
254	C57		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
255	C58		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
256	C59		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
257	C6		0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
258	C61		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
259	C7		0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
260	C70		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
261	C71		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
262	C72		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
263	C73		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
264	C74		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
265	C75		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
266	C76		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
267	C77		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
268	C78		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
269	C79		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
270	C8		0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
271	C80		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
272	C81		0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
273	SS		0112-3103-5116	C/M Multi. 0.01uF 50V X7R 0603	
274		C82	0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1
275	SS		0112-3103-5116	C/M Multi. 0.01uF 50V X7R 0603	
276		C85	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
277		C86	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
278		C87	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
279		C88	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
280		C89	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
281		C90	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
282		C91	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
283		C92	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
284		C93	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
285		C94	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
286		C95	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
287		C96	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
288		C97	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
289		C98	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
290		C99	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
291		DA1	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
292	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
293	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
294		DA2	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
295	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
296	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
297		D10	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
298	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
299	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
300		D12	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
301	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
302		D13	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
303	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
304		D15	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
305	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
306		D16	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
307	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
308		D17	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
309	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
310		D18	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
311	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
312		D19	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
313	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
314		D5	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
315	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
316	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
317		D6	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
318	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
319		D7	0390-5001-9293	DUAL SURFACE DIODES RAV99 SMD (SOT-23)	1
320	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
321		D9	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
322	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
323	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
324		FB1	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
325		FB10	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
326		FB11	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
327		FB12	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
328		FB13	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
329		FB14	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
330		FB15	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
331		FB16	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
332		FB17	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
333		FB18	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
334		FB19	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
335		FB2	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
336		FB20	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
337		FB21	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
338		FB22	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
339		FB23	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
340		FB24	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
341		FB25	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
342		FB26	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
343		FB27	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
344		FB28	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
345		FB29	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
346		FB3	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
347		FB30	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
348		FB31	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
349		FB32	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
350		FB33	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
351		FB34	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
352		FB35	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
353		FB36	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
354		FB37	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
355		FB38	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
356		FB39	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
357		FB4	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
358		FB40	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
359		FB41	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
360		FB42	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
361		FB43	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
362		FB44	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
363		FB45	0130-4700-0055	RES. CF 470ohm 1/10W J 0603	1
364		FB46	0130-4700-0055	RES. CF 470ohm 1/10W J 0603	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
365		FR47	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
366		FB48	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
367		FB5	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
368		FB51	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
369		FB53	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
370		FB54	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
371		FB55	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
372		FB56	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
373		FB57	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
374		FB58	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
375		FB59	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
376		FB6	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
377		FB65	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
378		FB7	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
379		FB8	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
380		FB9	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
381		F1	0185-1302-0003	FUSE 125V/3A SMD (R451003)	1
382		F3	0185-1202-0013	FUSE 125V/2A SMD (R451002)	1
383		F4	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
384		J3	0303-1000-0304	CONN. B TO FPC FH12-30S-0.5SH	1
385		J6	0302-2000-0301	CONN MALE R/A 30P SMD (DF14-30P-1.25H)(21)	1
386		L1	0370-0000-6952	CHIP BEAD CORE 1.5uH (MLI-201209-1R5K)	1
387		L11	0130-2208-0055	RES. CF 2.2ohm 1/10W J 0603	1
388		L12	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
389		L13	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
390		L14	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
391		L15	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
392		L16	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
393		L17	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
394		L21	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
395		L3	0370-0000-6952	CHIP BEAD CORE 1.5uH (MLI-201209-1R5K)	1
396		L5	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
397		L7	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
398		L8	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
399		L9	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
400		P1	0304-1000-0110	CONN. HDMI 19P 90' SMD With Flange L-F	1
401		QA1	0410-5000-2610	TRANSISTOR MMBT3906LT1 SMD	1
402	CS		0410-5000-2604	TRANSISTOR MMBT3906 SMD (SOT-23)	
403		QA2	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
404	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
405	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
406	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
407		QA3	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
408	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
409	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
410	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
411		QF1	0420-1002-4621	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	1
412	SS		0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	
413		QF2	0420-1002-4621	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	1
414	SS		0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	
415		QF3	0420-1002-4621	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	1
416	SS		0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	
417		QF4	0420-1002-4621	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	1
418	SS		0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	
419		Q12	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
420	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
421	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
422	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
423		Q13	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
424	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
425	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
426	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
427		Q14	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
428	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
429	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
430	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
431		Q15	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
432	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
433	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
434	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
435		Q2	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
436	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
437	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
438	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
439		Q3	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
440	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
441	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
442	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
443		Q4	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
444	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
445	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
446	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
447		Q5	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
448	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
449	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
450	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
451		Q6	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
452	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
453	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
454	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
455		Q7	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
456	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
457	SS		0410-5000-1611	TRANSISTOR PMRS3904 SMD T	
458	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
459		Q8	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
460	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
461	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
462	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
463		Q9	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
464	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
465	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
466	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
467		RA1	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
468		RA10	0111-3102-5116	C/M MULTI 1000PF 50V X7R 0603	1
469		RA11	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
470		RA12	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
471		RA13	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
472		RA14	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
473		RA15	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
474		RA16	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
475		RA17	0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
476		RA18	0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
477		RA19	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
478		RA2	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
479		RA20	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
480		RA21	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
481		RA22	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
482		RA3	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
483		RA4	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
484		RA5	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
485		RA6	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
486		RA8	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
487		RA9	0111-3102-5116	C/M MULTI 1000PF 50V X7R 0603	1
488		RN1	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
489		RN10	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
490		RN11	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
491		RN12	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
492		RN13	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
493		RN14	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
494		RN15	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
495		RN16	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
496		RN17	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
497		RN18	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
498		RN19	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
499		RN2	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
500		RN20	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
501		RN21	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
502		RN22	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
503		RN23	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
504		RN24	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
505		RN26	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
506		RN27	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
507		RN28	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
508		RN29	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
509		RN3	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
510		RN30	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
511		RN31	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
512		RN32	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
513		RN36	0141-4701-3851	ARRAY RES. A(X) 4.7Kohm 4R J 8P	1
514		RN37	0141-4701-3851	ARRAY RES. A(X) 4.7Kohm 4R J 8P	1
515		RN4	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
516		RN5	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
517		RN6	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
518		RN7	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
519		RN8	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
520		RN9	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
521		R100	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
522		R101	0130-1809-1654	RES. CF 18ohm 1/16W J 0402	1
523		R102	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
524		R103	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
525		R104	0130-5609-1654	RES. CF 56ohm 1/16W J 0402	1
526		R105	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
527		R106	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
528		R107	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
529		R108	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
530		R109	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
531		R110	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
532		R111	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
533		R112	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
534		R113	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
535		R115	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
536		R117	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
537		R120	0130-5600-1654	RES. CF 560ohm 1/16W J 0402	1
538		R122	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
539		R130	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
540		R131	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
541		R132	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
542		R133	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
543		R134	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
544		R136	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
545		R137	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
546		R138	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
547		R139	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
548		R14	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
549		R140	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
550		R141	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
551		R143	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
552		R144	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
553		R145	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
554		R146	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
555		R149	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
556		R150	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
557		R151	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
558		R153	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
559		R154	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
560		R155	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
561		R156	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
562		R159	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
563		R160	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
564		R161	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
565		R162	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
566		R163	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
567		R164	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
568		R165	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
569		R166	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
570		R168	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
571		R169	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
572		R17	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
573		R170	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
574		R171	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
575		R172	0130-1003-1654	RES. CF 100Kohm 1/16W J 0402	1
576		R173	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
577		R174	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
578		R175	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
579		R176	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
580		R178	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
581		R18	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
582		R180	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
583		R181	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
584		R182	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
585		R183	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
586		R185	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
587		R186	0130-3902-1654	RES. CF 39 Kohm 1/16W J 0402	1
588		R187	0130-3902-1654	RES. CF 39 Kohm 1/16W J 0402	1
589		R188	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
590		R189	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
591		R19	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
592		R190	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
593		R191	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
594		R192	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
595		R193	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
596		R194	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
597		R195	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
598		R196	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
599		R197	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
600		R198	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
601		R199	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
602		R2	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
603		R20	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
604		R200	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
605		R201	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
606		R202	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
607		R203	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
608		R204	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
609		R205	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
610		R206	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
611		R207	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
612		R208	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
613		R209	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
614		R21	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
615		R211	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
616		R212	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
617		R213	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
618		R214	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
619		R215	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
620		R217	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
621		R218	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
622		R219	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
623		R22	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
624		R220	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
625		R221	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
626		R222	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
627		R223	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
628		R225	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
629		R226	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
630		R227	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
631		R23	0130-5600-1654	RES. CF 560ohm 1/16W J 0402	1
632		R231	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
633		R232	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
634		R233	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
635		R234	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
636		R235	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
637		R237	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
638		R238	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
639		R239	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
640		R24	0130-1003-1654	RES. CF 100Kohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
641		R240	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
642		R241	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
643		R242	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
644		R243	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
645		R244	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
646		R245	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
647		R246	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
648		R247	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
649		R248	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
650		R249	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
651		R250	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
652		R251	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
653		R252	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
654		R253	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
655		R254	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
656		R255	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
657		R256	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
658		R257	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
659		R258	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
660		R259	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
661		R260	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
662		R261	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
663		R262	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
664		R263	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
665		R264	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
666		R266	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
667		R27	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
668		R272	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
669		R273	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
670		R274	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
671		R279	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
672		R28	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
673		R280	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
674		R281	0130-2201-1654	RES. CF 2.2Kohm 1/16W J 0402	1
675		R282	0130-2201-1654	RES. CF 2.2Kohm 1/16W J 0402	1
676		R285	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
677		R29	0130-3301-1654	RES. CF 3.3Kohm 1/16W J 0402	1
678		R294	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
679		R295	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
680		R296	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
681		R297	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
682		R298	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
683		R299	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
684		R3	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
685		R30	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
686		R304	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
687		R305	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
688		R306	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
689		R307	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
690		R308	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
691		R309	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
692		R31	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
693		R310	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
694		R311	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
695		R312	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
696		R313	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
697		R314	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
698		R315	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
699		R317	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
700		R318	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
701		R319	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
702		R32	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
703		R320	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
704		R321	0130-1009-1654	RES. CF 10ohm 1/16W J 0402	1
705		R322	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
706		R327	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
707		R328	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
708		R329	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
709		R33	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
710		R330	0130-8201-1654	RES. CF 8.2Kohm 1/16W J 0402	1
711		R331	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
712		R332	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
713		R333	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
714		R334	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
715		R335	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
716		R336	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
717		R34	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
718		R35	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
719		R36	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
720		R37	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
721		R38	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
722		R39	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
723		R41	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
724		R42	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
725		R43	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
726		R44	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
727		R45	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
728		R46	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
729		R47	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
730		R48	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
731		R49	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
732		R50	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
733	R51		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
734	R52		0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
735	R53		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
736	R54		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
737	R55		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
738	R56		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
739	R57		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
740	R58		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
741	R59		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
742	R6		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
743	R60		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
744	R61		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
745	R62		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
746	R63		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
747	R65		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
748	R67		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
749	R69		0130-5600-1654	RES. CF 560ohm 1/16W J 0402	1
750	R7		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
751	R70		0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
752	R71		0130-1004-1654	RES. CF 1Mohm 1/16W J 0402	1
753	R73		0130-2700-1654	RES. CF 270 ohm 1/16W J 0402	1
754	R74		0130-2700-1654	RES. CF 270 ohm 1/16W J 0402	1
755	R75		0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
756	R76		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
757	R77		0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
758	R78		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
759	R79		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
760	R8		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
761	R80		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
762	R81		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
763	R82		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
764	R83		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
765	R86		0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
766	R87		0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
767	R88		0130-1809-1654	RES. CF 18ohm 1/16W J 0402	1
768	R89		0130-5609-1654	RES. CF 56ohm 1/16W J 0402	1
769	R9		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
770	R90		0130-1809-1654	RES. CF 18ohm 1/16W J 0402	1
771	R91		0130-5609-1654	RES. CF 56ohm 1/16W J 0402	1
772	R93		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
773	R94		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
774	R95		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
775	R96		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
776	R97		0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
777	R98		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
778	R99		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
779		U11	0430-3001-5011	IC AT24C16AN-10SI-2 7 SMD 8PIN	1
780		U10	0430-3007-8645	IC MX29LV160BTTC-70G 48PIN TSOP LF	1
781		U11	0430-8002-5663	IC M13S128168A-6T 66PIN TSOP II	1
782		U12	0430-8002-5663	IC M13S128168A-6T 66PIN TSOP II	1
783		U13	0430-6010-9004	IC LP2996MX 8PIN SO-8	1
784		U14	0430-6002-8079	IC AP1117E25LA SOT-223 L-F	1
785		U15	0430-6009-7051	IC AMC1117-1.8SKFT SMD 3PIN (SOT-223)L-F	1
786	SS		0430-6009-7075	IC AME1117ECGTZ 1.8V 3PIN SOT-223 L-F	
787		U16	0430-7027-3738	IC SiI9011CLU 128PIN LQFP LF	1
788		U17	0430-3001-1011	IC AT24C02N-10SI-2.7 SMD 8PIN	1
789	SS		0430-3000-5017	IC 24LC02B/SN SMD 8PIN	
790		U18	0430-3001-1011	IC AT24C02N-10SI-2.7 SMD 8PIN	1
791	SS		0430-3000-5017	IC 24LC02B/SN SMD 8PIN	
792		U20	0430-3006-0619	IC MM1492AF 44PIN SOP-44B	1
793		U21	0430-3006-1065	IC IDTQS3VH257Q 3.3V QSOP 16PIN	1
794		U22	0430-7027-2699	IC WM8776EFT 48PIN TQFP	1
795		U26	0430-7033-3016	IC ASM809MEURF-T 4.38V SOT23 LF	1
796		U4	0430-6004-5004	IC LM2596S-3.3 5PIN TO-263	1
797		U5	0430-6009-7051	IC AMC1117-1.8SKFT SMD 3PIN (SOT-223)L-F	1
798	SS		0430-6009-7075	IC AME1117ECGTZ 1.8V 3PIN SOT-223 L-F	
799		U7	0420-1001-6601	POWER MOS IRF7316TR SMD 8PIN	1
800	SS		0420-2001-0626	MOSFET P-CH 7A 30V P07B03LV SOP-8	
801	SS		0420-2001-2621	MOSFET P-CH 4.9A 30V Si4953DY SO-8	
802		U9	0430-7027-4999	IC MT8205 388PIN BGA	1
803		ZDA1	0400-0941-2012	ZENER RLZ-10B 9.41~9.90V 1/2W LL-34 L-F	1

Chapter 13 Complete Parts List (Sharp Panel)

2609-3485-0225 LCD MONITOR 32" VIZIO L32 (ABS, 433C)(SHARP)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			3320-0012-0312	PACKING ASS'Y (VIZIO L32)	1
2			3320-0012-0331	PANEL ASS'Y (V inc VIZIO L32)(SHARP)	1
3			3320-0012-0334	BASE ASS'Y (TM-32V)(ABS, 877C)	1

3320-0012-0312 PACKING ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	OTV
1			1701-0516-0010	WIRE CLIP (VIZIO C20L.) (PC TRANSPARENT/877C)	1
2			1701-0800-1510	REAR PLATE VIZIO L32	1
3			1925-1000-2510	EPS FORM_TR (TM-32V)	1
4			1925-1000-2520	EPS FORM_TL (TM-32V)	1
5			1925-1000-2550	EPS FORM_BR (TM-32V)	1
6			1925-1000-2560	EPS FORM_BL (TM-32V)	1
7			1925-1100-1970	PE BAG (850.0L*950.0W*0.3t)	1
8			1925-1200-7620	CARTON Vinc VIZIO L32	1
9			1925-1200-7830	CARTON TRAY (TM-32V)	1
10			1925-1900-0610	CARTON JOINT (TM-32V)	4
11			1936-1100-7650	B/C LBL Vinc VIZIO L32	1
12			3320-0012-0393	ACCESSORY ASS'Y (VIZIO L32)	1

3320-0012-0331 PANEL ASS'Y (V inc VIZIO L32)(SHARP)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	OTV
1			0211-0315-0363	LCD MODUL.E 31.5" TFT LO315T3L72x (Amtran+SHARP)	1
2			0260-0000-0221	AC INLET +VHR5P 1617#22 500mm 1015#18 100mm +TUBE	1
3			0335-0008-0250	SPEAKER 8ohm 10W 155*86mm P302F	1
4			0460-1004-0301	WH PH4P-PH4P 1061#26 80mm	1
5			0460-1012-0171	WH PH12P-PH12P 1061#26 450mm SHIELDING	1
6			0460-1013-0061	WH PH13P-A254313P 1007#24 480mm	1
7			0460-2830-0090	FFC 30P(0.5mm) 250mm	1
8			0460-3430-0660	WH P240430/FI-X30H 20276#30 165mm	1
9			0460-4012-0011	WH A254312P-PH10P+PH10P+PH6P 1061#26 700/660/720mm	1
10			0500-0502-0101	POWER BD ASS'Y 0469D03 REV A	1
11			1701-1923-0010	CARD READER COVER (TM-32V)(ABS, 433C)	1
12			1712-0100-4590	HEAT SINK FIX MTEAL (TM-30A)	1
13			1712-0100-8040	CHASSIS FOR MAIN BD (TM-32V)	1
14			1712-0100-8050	SHIELDING FOR MAIN BD (TM-32V)	1
15			1712-0100-8060	I/O PLATE BRACKET (TM-32V)	1
16			1712-0100-8071	PANEL BRACKET-R (TM-32V)	1
17			1712-0100-8080	PANEL HOLDER TOP (TM-32V_SHARP)	2
18			1712-0100-8090	PANEL HOLDER SIDE-L (TM-32V_SHARP)	1
19			1712-0100-8100	BASE BRACKET TOP (TM-32V)	2
20			1712-0100-8130	POWER SHIELDING (TM-32V)	1
21			1712-0100-8140	POWER BRACKET (TM-32V)	1
22			1712-0100-8221	PANEL BRACKET-L (TM-32V)	1
23			1712-0100-8440	PANEL BRACKET (TM-32V)	4
24			1712-0100-8450	PANEL HOLDER SIDE-R (TM-32V_SHARP)	1
25			1712-0400-0720	HEAT SINK (PD-42S)	1
26			1720-0003-0420	MAC.SCREW-MB M3.0*4.0L,Ni	9
27			1720-0003-0620	MAC. SCREW-MB M3.0*6.0L,Ni	14
28			1720-0004-0520	MAC. SCREW-MB M4.0*5.0L,Ni	20
29			1720-0004-1020	MAC. SCREW-MB M4.0*10.0L Ni	4
30			1720-1204-0820	MAC. SCREW-MPGW M4.0*8.0L,Ni	1
31			1720-1504-0820	MAC. SCREW-MPSWF M4.0*8.0L,NI	10
32			1720-1504-1450	MAC.SCREW-MPSWF M4.0*14.0L Blk-Ni	4
33			1720-3003-0820	MAC.SCREW-MF M3.0*8.0L,NI	2
34			1720-7344-0820	MAC. SCREW-MHSW #4-40*8.0L,Ni	2
35			1721-0003-0820	TAP. SCREW-TB #3.0*8.0L,NI	7
36			1721-0004-0820	TAP. SCREW-TP #4.0*8.0L,NI	2
37			1721-0004-1050	TAP. SCREW-TP #4.0*10.0L, BLK-Ni	10
38			1721-0004-1620	TAP. SCREW-TP #4.0*16.0L,NI	10
39			1721-0504-1020	TAP SCREW-MBSFW #TP4.0*10.0L, Ni	8
40			1721-2103-1050	TAP. SCREW-TRFW #3.0*10.0L,BLK-NI	4
41			1721-3003-0850	TAP. SCREW-TF #M3.0X8.0L,BLK-Ni	2
42			1721-4104-1220	TAP. SCREW-TRF #4.0*12.0L,Ni	6

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
43			1801-0119-3011	REFRIGERATOR (VIZIO L32)(ABS, 433C) ASS'Y	1
44			1801-0211-3010	REAR COVER (TM-32V)(ABS, 433C) ASS'Y	1
45			1947-1200-0310	ACETATE CLOTH TAPE (醋酸布膠帶) 27*75mm	3
46			1947-1200-0400	ACETATE CLOTH TAPE (醋酸布膠帶) 20*45mm	6
47			1947-1200-0820	ACETATE CLOTH TAPE (醋酸布膠帶) 60*45mm	5
48			1947-1700-0050	SHIELDING AL. TAPE (50.0*40.0)	2
49			1947-1800-0120	GASKET BLOCK (17W*45H*30Lmm)	4
50			1947-1800-0160	GASKET BLOCK (10.0W*13.0H*60.0L)	2
51			1947-1800-0490	GASKET BLOCK (12L*10W*2.5Hmm) HOLE 6 φ	1
52			1947-1800-0660	Gasket Block (10.0W*2.0H*100.0L mm)	1
53			1947-1800-0790	GASKET BLOCK (100L*10.0W*1.0H)mm	1
54			1947-1900-0030	HEATPATH (25x14mm)	1
55			1947-2000-1011	RUBBER PAD-A (TM-32V)	6
56			1947-2000-1021	RUBBER PAD-B (TM-32V)	2
57			3320-0012-0146	LCD CONNECTOR BD ASS'Y (VIZIO L32)	1
58			3320-0012-0150	LCD MAIN BD ASS'Y (VIZIO L32)(SHARP)	1
59			3320-0012-0156	LCD DISPLAY BD ASS'Y (VIZIO L32)	1
60			3320-0012-0189	LCD IR BD ASS'Y (VIZIO L32)	1

3320-0012-0334 BASE ASS'Y (TM-32V)(ABS, 877C)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			1701-0516-2010	BASE (TM-32V)(ABS, 877C)	1
2			1701-1000-0180	BASE FOOT (φ 18.0*2.0t, PORON)	8
3			1701-1000-0430	BASE FOOT (TM-32V)	4
4			1712-0100-8110	BASE BRACKET BOTTOM (TM-32V)	2
5			1712-0100-8120	BASE BRACKET (TM-32V)	2
6			1720-3004-0820	MAC. SCREW-MF M4.0*8.0L,NI	8
7			1721-3004-0800	SCREW,Fate Head,T4.0*8.0L,Zn	8

3320-0012-0146 LCD CONNECTOR BD ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			0171-3841-0033	PCB CONNECTOR BD FR4 115*27*1.6t (VIZIO L32)	1
2		C1	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
3	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
4		C2	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
5	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
6		J1	0303-1000-0304	CONN. B TO FPC FH12-30S-0.5SH	1
7		J3	0302-0350-0011	PHONE JACK 3.5 φ 5PIN 90 ° +SHIELDING	1
8		J4	0302-9030-0014	RCA JACK 1ROW 3I/O (Y-W-R)	1
9		J6	0300-3041-0090	S-VIDEO 4PIN 90' (2MJ-0602-005) L-F	1
10		R7	0130-2208-0055	RES. CF 2.2ohm 1/10W J 0603	1
11		R8	0130-2208-0055	RES. CF 2.2ohm 1/10W J 0603	1

3320-0012-0150 LCD MAIN BD ASS'Y (VIZIO L32)(SHARP)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			332000120150A	LCD MAIN BD ASS'Y (VIZIO L32)(SHARP) A	1
2			332000120150M	LCD MAIN BD ASS'Y (VIZIO L32)(SHARP) MI	1
3			332000120150S	LCD MAIN BD ASS'Y (VIZIO L32)(SHARP) SMD	1

3320-0012-0156 LCD DISPLAY BD ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			0170-1740-1412	PCB DISPLAY RD V0 141*25*1 6t (VIZIO L32)	1
2		AJD1	0451-2003-1263	WAFER 2.0mm 12P 90° KINK (A2001WR2-12P) L-F	1
3	SS		0451-2000-1266	WAFER 2.0mm 12P 90° DIP KINK (M242612R) L-F	
4		AJD2	0451-2000-0466	WAFER 2.0mm 4P 90° DIP KINK (M24264R) L-F	1
5		SWD1	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
6	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
7		SWD2	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
8	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
9		SWD3	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
10	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
11		SWD4	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
12	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
13		SWD5	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
14	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
15		SWD6	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
16	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
17		SWD7	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
18	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	
19		SWD8	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
20	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	

3320-0012-0189 LCD IR BD ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1			0170-1640-0302	PCB IR RD V0 30*25*1.6t (VIZIO L32)	1
2		CI3	0111-1104-5102	C/C DISK 0.1UF 50V Y5V F-K	1
3		DI1	0440-5000-0030	LED L-3WYGW 3 φ	1
4		JI1	0451-2000-0466	WAFER 2.0mm 4P 90° DIP KINK (M24264R) L-F	1
5		QI1	0410-2000-3106	TRANSISTOR 2SC1213AC TO-92 T	1
6	CS		0410-2000-3119	TRANSISTOR KTC200-O/Y TO-92 T	1
7		QI2	0410-0000-2106	TRANSISTOR 2SA673AC TO-92 T	1
8	CS		0410-0000-2119	TRANSISTOR KTA200-O/Y TO-92 T	1
9		RI1	0130-4709-1850	RES. CF 47ohm 1/8W J A	1
10		RI3	0130-2200-1850	RES. CF 220ohm 1/8W J A	1
11		RI4	0130-4700-1850	RES. CF 470ohm 1/8W J A	1
12		RI5	0130-3301-1850	RES. CF 3.3Kohm 1/8W J A	1
13		RI6	0130-3301-1850	RES. CF 3.3Kohm 1/8W J A	1
14		RI7	0130-3301-1850	RES. CF 3.3Kohm 1/8W J A	1
15		UI1	0980-0200-2030	MODULE. IR RECEIVER (FM-6038LM-5A)	1
16		UI1S	1701-1500-0360	IR HOLDER (TM-15A)	1

3320-0012-0393 ACCESSARY ASS'Y (VIZIO L32)

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	OTV
1			0320-4000-0142	POWER CORD 110V UL /CSA 1800mm BLK N M (VINC)	1
2			0321-0000-0411	AV CABLE RCA(Y/W/R) 1800mm BLK (VINC)	1
3			0602-1000-0020	Battery Zn-Carbon 1.5V AA	2
4	SS		0602-3000-0020	Battery Zn-Carbon 1.5V AA	
5			0980-0303-5010	REMOTE CONTROL Vinc VIZIO L32	1
6			1925-1100-0230	PE BAG 320*230*0.04T	1
7			1925-1100-0280	PE BAG (180W*290L*0.04t)(PE-LD)(ACC.-1)	1
8			1925-1200-7080	ACCESSARY BOX (330W*230D*50H)	1
9			1925-1300-6641	MANUAL Vinc VIZIO L32	1
10			1925-1300-6650	QUICK SETUP GUIDE Vinc VIZIO L32	1
11			1925-1400-2710	Register CARD/VIZIO L15	1
12			1925-1400-2810	WARRANTY CARD Vinc VIZIO L32	1
13			1925-1400-2821	Flyer VIZIO L32,P50HDM	1

3320-0012-0150A LCD MAIN BD ASS'Y (VIZIO L32)(SHARP) AI

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	OTV
1		CA2	0103-1102-1216	E/C VZ 1000uF 16V 105'C F (10*12.5)	1
2		CA4	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
3		CA6	0103-1471-1211	E/C VZ 470uF 16V 105'C F-T (8*11.5mm)	1
4		CA7	0103-1471-1211	E/C VZ 470uF 16V 105'C F-T (8*11.5mm)	1
5		CE1	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
6		CE10	0103-1102-1216	E/C VZ 1000uF 16V 105'C F (10*12.5)	1
7		CE11	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
8		CE12	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
9		CE13	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
10		CE18	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
11		CE19	0103-1109-1511	E/C VT 1uF 50V 105'C F-T (5*11mm)	1
12		CE2	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
13		CE20	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
14	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
15		CE21	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
16	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
17		CE22	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
18		CE23	0103-1471-1211	E/C VZ 470uF 16V 105'C F-T (8*11.5mm)	1
19		CE25	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
20		CE27	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
21		CE28	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
22		CE29	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
23		CE30	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
24		CE31	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
25		CE32	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
26		CE35	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
27		CE36	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
28		CE38	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
29		CE39	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
30		CE4	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
31	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
32		CE41	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
33		CE42	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
34		CE43	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
35		CE44	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
36	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
37		CE45	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
38		CE46	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
39		CE47	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
40	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
41		CE48	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
42	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
43		CE49	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
44	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
45		CE50	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
46	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
47		CE51	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
48		CE52	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
49	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
50		CE53	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
51	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
52		CE54	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
53		CE55	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
54		CE56	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
55		CE57	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
56		CE58	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
57		CE59	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
58		CE60	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
59		CE61	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
60		CE62	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
61		CE63	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
62		CE64	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
63		CE65	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
64		CE66	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
65		CE67	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
66		CE68	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
67		CE69	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
68		CE70	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
69		CE71	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
70		CE76	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
71	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
72		CE77	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
73	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
74		CE78	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
75		CE79	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
76		CE8	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
77		CE80	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
78	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
79		CE81	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
80	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
81		CE82	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
82	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
83		CE83	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
84	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
85		CE85	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
86	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
87		CE86	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	
88	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
89		CE87	0103-1100-1211	E/C VT 10nF 16V 105'C F-T (5*11mm)	1
90	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
91		CE88	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
92	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
93		CE89	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
94	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
95		CE9	0103-1102-1216	E/C VZ 1000uF 16V 105'C F (10*12.5)	1
96		CE90	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
97	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
98		CE91	0103-1100-1211	E/C VT 10uF 16V 105'C F-T (5*11mm)	1
99	SS		0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	
100		CE92	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
101		CE93	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
102		CE97	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
103	D2		0390-6001-4060	SCHOTTKY DIODE SB560 T	1
104	L19		0370-0000-1010	FERRITE CORE RH 3.5X6X1.0(W)X2	1
105	L20		0370-0000-1010	FERRITE CORE RH 3.5X6X1.0(W)X2	1

3320-0012-0150M LCD MAIN BD ASS'Y (VIZIO L32)(SHARP) MI

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
1		I1	0451-2000-1366	WAFER 2.0mm 13P 90° DIP KINK (M242613R) I.-F	1
2		J5	0451-2500-0443	WAFER 2.50mm 4P 90° KINK (A2501WR2-4P) L-F	1
3	SS		0451-2500-0444	WAFER 2.50MM 4P 90° KINK	
4		J7	0451-2000-1263	WAFER 2.00MM 12P 90° KINK	1
5	CS		0451-2000-1264	WAFER 2.00MM 12P 90° KINK	
6	SS		0451-2003-1263	WAFER 2.00mm 12P 90° KINK (A2001WR2-12P) L-F	
7		L2	0361-2047-0020	COIL CHOKE 47UH 1.6A 11*14 DIP	1
8		L4	0360-1000-0150	COIL CHOKE 70uH 3A	1
9		P10	0302-9040-0010	RCA JACK 2ROW 4I/O 90° (W-R) L-F	1
10		P11	0202-0000-6002	RJ11 6P6C UNDER CONTACT	1
11		P2	0302-9030-0037	RCA JACK 2ROW 3I/O (Y-W-R)	1
12		P3	0300-1202-3150	D-SUB FEMALE 90° 15P 3ROW (PC99)	1
13		P5	0302-0350-0011	PHONE JACK 3.5 φ 5PIN 90 ° +SHIELDING	1
14		P8	0302-9060-0020	RCA JACK 2ROW 6I/O (G-B-R)	1
15		P9	0302-9020-0014	RCA JACK 2ROW 2I/O (W-R)	1
16		SW1	0220-7020-0965	SW TACT 6*6mm 180° 160g SFKHHAM2520	1
17	SS		0220-7020-0981	SW TACT 6*6mm 180° 160g TSAB-2	1
18		TU1	0980-0102-3010	MODULE TUNER (FQ1236/PH-5)	1
19		TU1-1	0303-3000-0010	TV JACK 3/8-32UNEF (RF JACK)	1
20		UA1	0430-4013-3109	IC TDA8946AJ 17PIN DIP LF	1
21		U6	0430-6004-2235	IC KA7809 3PIN TO-220	1
22		Y1	0280-2700-0012	X'TAL 27MHZ 49/US 30PPM 20PF 40ohm	1
23		Y2	0280-2820-0112	X'TAL 28.224MHZ 49US 30PPM 12PF	1

3320-0012-0150S LCD MAIN BD ASS'Y (VIZIO L32)(SHARP) SMD

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	OTV
1			0171-2242-1794	PCB MAIN BD FR4 265*140*1 6t 4M (VIZIO L32)	1
2		CA1	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
3	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
4		CA10	0111-3474-1636	C/M Multi. 0.47uF 16V Y5V 0603	1
5		CA11	0111-3474-1636	C/M Multi. 0.47uF 16V Y5V 0603	1
6		CA12	0111-3474-1636	C/M Multi. 0.47uF 16V Y5V 0603	1
7		CA13	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
8	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
9		CA16	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
10		CA17	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
11		CA3	0111-3474-1636	C/M Multi. 0.47uF 16V Y5V 0603	1
12		CA5	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
13		CA8	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
14	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
15		CA9	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
16		CB1	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
17		CB10	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
18		CB100	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
19		CB101	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
20		CB102	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
21		CB103	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
22		CB104	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
23		CB105	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
24		CB106	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
25		CB107	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
26		CB108	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
27		CB109	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
28		CB11	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
29		CB110	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
30		CB111	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
31		CB112	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
32		CB113	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
33		CB114	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
34		CB115	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
35		CB116	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
36		CB117	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
37		CB118	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
38		CB119	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
39		CB12	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
40		CB121	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
41		CB122	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
42		CB123	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
43		CB124	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
44		CB125	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
45		CB126	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
46		CB127	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
47		CB128	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
48		CB129	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
49		CB13	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
50		CB131	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
51		CB132	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
52		CB136	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
53		CB137	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
54		CB138	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
55		CB139	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
56		CB14	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
57		CB140	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
58		CB141	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
59		CB142	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
60		CB143	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
61		CB144	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
62		CB145	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
63		CB146	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
64		CB147	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
65		CB148	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
66		CB149	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
67		CB15	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
68		CB150	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
69		CB151	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
70		CB152	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
71		CB153	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
72		CB154	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
73		CB155	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
74		CB156	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
75		CB157	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
76		CB158	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
77		CB159	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
78		CB16	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
79		CB160	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
80		CB161	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
81		CB162	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
82		CB163	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
83		CB164	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
84	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
85		CB165	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
86		CB166	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
87		CB167	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
88		CB168	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
89		CB169	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
90		CB17	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
91		CB170	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
92		CB171	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
93		CB172	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
94		CB173	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
95		CB174	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
96		CB175	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
97		CB176	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
98		CB177	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
99		CB178	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
100		CB179	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
101		CB180	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
102		CB181	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
103	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
104		CB19	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
105		CB2	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
106		CB20	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
107		CB21	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
108		CB22	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
109		CB23	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
110		CB24	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
111		CB25	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
112		CB26	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
113		CB27	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
114		CB28	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
115		CB29	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
116		CB3	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
117		CB30	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
118		CB31	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
119		CB32	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
120		CB33	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
121		CB34	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
122		CB35	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
123		CB36	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
124		CB37	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
125		CB38	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
126		CB40	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
127		CB41	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
128		CB43	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
129		CB44	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
130		CB45	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
131		CB46	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
132		CB47	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
133		CB51	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
134		CB52	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
135	CB53	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
136	CB54	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
137	CB55	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
138	CB57	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
139	CB58	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
140	CB59	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
141	CB60	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
142	CB61	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
143	CB62	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
144	CB63	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
145	CB64	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
146	CB65	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
147	CB66	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603		1
148	CB67	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
149	CB68	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603		1
150	CB69	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603		1
151	CB70	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
152	CB71	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
153	CB72	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
154	CB73	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
155	CB74	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
156	CB75	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
157	CB76	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
158	CB77	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
159	CB78	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
160	CB79	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
161	CB80	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
162	CB81	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
163	CB82	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
164	CB83	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
165	CB84	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
166	CB85	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
167	CB86	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
168	CB87	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
169	CB88	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
170	CB89	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
171	CB9	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
172	CB90	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
173	CB91	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
174	CB92	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
175	CB99	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
176	C1	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402		1
177	C100	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402		1
178	C101	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402		1
179	C102	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402		1
180	C103	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402		1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
181		C104	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
182		C105	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
183		C106	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
184		C107	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
185		C108	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402	1
186		C109	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
187		C11	0111-3270-5107	C/M MULTI 27PF 50V NPO 0402	1
188		C110	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
189		C111	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
190		C112	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
191		C113	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
192		C114	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402	1
193		C115	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
194		C116	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
195		C117	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402	1
196		C118	0111-3509-5107	C/M Multi. 5PF 50V NPO 0402	1
197		C119	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
198		C12	0111-3270-5107	C/M MULTI 27PF 50V NPO 0402	1
199		C120	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
200		C121	0111-3330-5107	C/M Multi. 33PF 50V NPO 0402	1
201		C122	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
202		C123	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
203		C124	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
204		C125	0111-3330-5107	C/M Multi. 33PF 50V NPO 0402	1
205		C126	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
206		C127	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
207		C128	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
208		C129	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
209		C13	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
210		C130	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
211		C131	0111-3330-5107	C/M Multi. 33PF 50V NPO 0402	1
212		C132	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
213		C133	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
214		C134	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
215		C140	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
216		C15	0111-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	1
217	SS		0112-3104-2516	C/M Multi. 0.1uF 25V X7R 0603	
218		C16	0111-3152-5117	C/M Multi. 1500PF 50V X7R 0402	1
219		C17	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
220		C18	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
221		C19	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
222		C2	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
223		C20	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
224		C21	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
225		C23	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
226		C24	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
227	C25		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
228	C26		0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
229	C27		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
230	C28		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
231	C29		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
232	C3		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
233	C30		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
234	C31		0111-3180-5107	C/M Multi. 18PF 50V NPO 0402	1
235	C32		0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
236	C33		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
237	C35		0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
238	C37		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
239	C4		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
240	C43		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
241	C44		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
242	C46		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
243	C47		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
244	C48		0111-3120-5107	C/M Multi. 12PF 50V NPO J 0402	1
245	C49		0111-3120-5107	C/M Multi. 12PF 50V NPO J 0402	1
246	C5		0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
247	C50		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
248	C51		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
249	C52		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
250	C53		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
251	C54		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
252	C55		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
253	C56		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
254	C57		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
255	C58		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
256	C59		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
257	C6		0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
258	C61		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
259	C7		0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
260	C70		0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
261	C71		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
262	C72		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
263	C73		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
264	C74		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
265	C75		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
266	C76		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
267	C77		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
268	C78		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
269	C79		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
270	C8		0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
271	C80		0111-3331-5106	C/M Multi 330PF 50V NPO 0603	1
272	C81		0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
273	SS		0112-3103-5116	C/M Multi. 0.01uF 50V X7R 0603	
274		C82	0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1
275	SS		0112-3103-5116	C/M Multi. 0.01uF 50V X7R 0603	
276		C85	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
277		C86	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
278		C87	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
279		C88	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
280		C89	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
281		C90	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
282		C91	0111-3104-1637	C/M Multi. 0.1uF 16V Y5V 0402	1
283		C92	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
284		C93	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
285		C94	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
286		C95	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
287		C96	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
288		C97	0111-3103-1637	C/M Multi. 0.01uF 16V Y5V 0402	1
289		C98	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
290		C99	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
291		DA1	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
292	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
293	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
294		DA2	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
295	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
296	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
297		D10	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
298	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
299	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
300		D12	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
301	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
302		D13	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
303	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
304		D15	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
305	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
306		D16	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
307	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
308		D17	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
309	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
310		D18	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
311	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
312		D19	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
313	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
314		D5	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
315	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
316	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
317		D6	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
318	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
319		D7	0390-5001-9293	DUAL SURFACE DIODES RAV99 SMD (SOT-23)	1
320	SS		0390-5001-9273	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
321		D9	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
322	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
323	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
324		FB1	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
325		FB10	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
326		FB11	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
327		FB12	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
328		FB13	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
329		FB14	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
330		FB15	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
331		FB16	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
332		FB17	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
333		FB18	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
334		FB19	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
335		FB2	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
336		FB20	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
337		FB21	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
338		FB22	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
339		FB23	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
340		FB24	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
341		FB25	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
342		FB26	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
343		FB27	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
344		FB28	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
345		FB29	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
346		FB3	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
347		FB30	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
348		FB31	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
349		FB32	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
350		FB33	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
351		FB34	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
352		FB35	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
353		FB36	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
354		FB37	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
355		FB38	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
356		FB39	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
357		FB4	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
358		FB40	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
359		FB41	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
360		FB42	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
361		FB43	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
362		FB44	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
363		FB45	0130-4700-0055	RES. CF 470ohm 1/10W J 0603	1
364		FB46	0130-4700-0055	RES. CF 470ohm 1/10W J 0603	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
365		FR47	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
366		FB48	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
367		FB5	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
368		FB51	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
369		FB53	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
370		FB54	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
371		FB55	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
372		FB56	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
373		FB57	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
374		FB58	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
375		FB59	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
376		FB6	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
377		FB65	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
378		FB7	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
379		FB8	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
380		FB9	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
381		F1	0185-1302-0003	FUSE 125V/3A SMD (R451003)	1
382		F3	0185-1202-0013	FUSE 125V/2A SMD (R451002)	1
383		F4	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
384		J3	0303-1000-0304	CONN. B TO FPC FH12-30S-0.5SH	1
385		J6	0302-2000-0301	CONN MALE R/A 30P SMD (DF14-30P-1.25H)(21)	1
386		L1	0370-0000-6952	CHIP BEAD CORE 1.5uH (MLI-201209-1R5K)	1
387		L11	0130-2208-0055	RES. CF 2.2ohm 1/10W J 0603	1
388		L12	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
389		L13	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
390		L14	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
391		L15	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
392		L16	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
393		L17	0370-2022-9620	CHIP COIL 2.2uH 15mA 0603 (MLF1608A2R2KT)	1
394		L21	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
395		L3	0370-0000-6952	CHIP BEAD CORE 1.5uH (MLI-201209-1R5K)	1
396		L5	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
397		L7	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
398		L8	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
399		L9	0370-0000-8673	CHIP BEAD CORE 80ohm (MCB1608H800G)	1
400		P1	0304-1000-0110	CONN. HDMI 19P 90' SMD With Flange L-F	1
401		QA1	0410-5000-2610	TRANSISTOR MMBT3906LT1 SMD	1
402	CS		0410-5000-2604	TRANSISTOR MMBT3906 SMD (SOT-23)	
403		QA2	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
404	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
405	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
406	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
407		QA3	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
408	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
409	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
410	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
411		QF1	0420-1002-4621	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	1
412	SS		0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	
413		QF2	0420-1002-4621	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	1
414	SS		0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	
415		QF3	0420-1002-4621	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	1
416	SS		0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	
417		QF4	0420-1002-4621	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	1
418	SS		0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	
419		Q12	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
420	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
421	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
422	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
423		Q13	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
424	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
425	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
426	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
427		Q14	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
428	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
429	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
430	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
431		Q15	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
432	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
433	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
434	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
435		Q2	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
436	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
437	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
438	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
439		Q3	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
440	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
441	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
442	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
443		Q4	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
444	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
445	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
446	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
447		Q5	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
448	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
449	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
450	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
451		Q6	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
452	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
453	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
454	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
455		Q7	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
456	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
457	SS		0410-5000-1611	TRANSISTOR PMRS3904 SMD T	
458	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
459		Q8	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
460	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
461	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
462	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
463		Q9	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
464	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
465	SS		0410-5000-1611	TRANSISTOR PMBS3904 SMD T	
466	SS		0410-5000-1628	TRANSISTOR MMBT3904LT1 SMD SOT-23 T	
467		RA1	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
468		RA10	0111-3102-5116	C/M MULTI 1000PF 50V X7R 0603	1
469		RA11	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
470		RA12	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
471		RA13	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
472		RA14	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
473		RA15	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
474		RA16	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
475		RA17	0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
476		RA18	0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
477		RA19	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
478		RA2	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
479		RA20	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
480		RA21	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
481		RA22	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
482		RA3	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
483		RA4	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
484		RA5	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
485		RA6	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
486		RA8	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
487		RA9	0111-3102-5116	C/M MULTI 1000PF 50V X7R 0603	1
488		RN1	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
489		RN10	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
490		RN11	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
491		RN12	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
492		RN13	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
493		RN14	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
494		RN15	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
495		RN16	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
496		RN17	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
497		RN18	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
498		RN19	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
499		RN2	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
500		RN20	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
501		RN21	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
502		RN22	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
503		RN23	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
504		RN24	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
505		RN26	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
506		RN27	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
507		RN28	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
508		RN29	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
509		RN3	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
510		RN30	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
511		RN31	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
512		RN32	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
513		RN36	0141-4701-3851	ARRAY RES. A(X) 4.7Kohm 4R J 8P	1
514		RN37	0141-4701-3851	ARRAY RES. A(X) 4.7Kohm 4R J 8P	1
515		RN4	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
516		RN5	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
517		RN6	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
518		RN7	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
519		RN8	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
520		RN9	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
521		R100	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
522		R101	0130-1809-1654	RES. CF 18ohm 1/16W J 0402	1
523		R102	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
524		R103	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
525		R104	0130-5609-1654	RES. CF 56ohm 1/16W J 0402	1
526		R105	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
527		R106	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
528		R107	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
529		R108	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
530		R109	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
531		R110	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
532		R111	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
533		R112	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
534		R113	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
535		R115	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
536		R117	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
537		R120	0130-5600-1654	RES. CF 560ohm 1/16W J 0402	1
538		R122	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
539		R130	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
540		R131	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
541		R132	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
542		R133	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
543		R134	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
544		R136	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
545		R137	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
546		R138	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
547		R139	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
548		R14	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
549		R140	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
550		R141	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
551		R143	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
552		R144	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
553		R145	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
554		R146	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
555		R149	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
556		R150	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
557		R151	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
558		R153	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
559		R154	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
560		R155	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
561		R156	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
562		R159	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
563		R160	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
564		R161	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
565		R162	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
566		R163	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
567		R164	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
568		R165	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
569		R166	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
570		R168	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
571		R169	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
572		R17	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
573		R170	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
574		R171	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
575		R172	0130-1003-1654	RES. CF 100Kohm 1/16W J 0402	1
576		R173	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
577		R174	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
578		R175	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
579		R176	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
580		R178	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
581		R18	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
582		R180	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
583		R181	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
584		R182	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
585		R183	0130-5601-1654	RES. CF 5.6Kohm 1/16W J 0402	1
586		R185	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
587		R186	0130-3902-1654	RES. CF 39 Kohm 1/16W J 0402	1
588		R187	0130-3902-1654	RES. CF 39 Kohm 1/16W J 0402	1
589		R188	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
590		R189	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
591		R19	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
592		R190	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
593		R191	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
594		R192	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
595		R193	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
596		R194	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
597		R195	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
598		R196	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
599		R197	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
600		R198	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
601		R199	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
602		R2	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
603		R20	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
604		R200	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
605		R201	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
606		R202	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
607		R203	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
608		R204	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
609		R205	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
610		R206	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
611		R207	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
612		R208	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
613		R209	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
614		R21	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
615		R211	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
616		R212	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
617		R213	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
618		R214	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
619		R215	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
620		R217	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
621		R218	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
622		R219	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
623		R22	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
624		R220	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
625		R221	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
626		R222	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
627		R223	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
628		R225	0130-2200-1654	RES. CF 220ohm 1/16W J 0402	1
629		R226	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
630		R227	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
631		R23	0130-5600-1654	RES. CF 560ohm 1/16W J 0402	1
632		R231	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
633		R232	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
634		R233	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
635		R234	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
636		R235	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
637		R237	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
638		R238	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
639		R239	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
640		R24	0130-1003-1654	RES. CF 100Kohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
641		R240	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
642		R241	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
643		R242	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
644		R243	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
645		R244	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
646		R245	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
647		R246	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
648		R247	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
649		R248	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
650		R249	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
651		R250	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
652		R251	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
653		R252	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
654		R253	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
655		R254	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
656		R255	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
657		R256	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
658		R257	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
659		R258	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
660		R259	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
661		R260	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
662		R261	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
663		R262	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
664		R263	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
665		R264	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
666		R27	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
667		R270	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
668		R272	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
669		R273	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
670		R274	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
671		R279	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
672		R28	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
673		R280	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
674		R281	0130-2201-1654	RES. CF 2.2Kohm 1/16W J 0402	1
675		R282	0130-2201-1654	RES. CF 2.2Kohm 1/16W J 0402	1
676		R285	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
677		R29	0130-3301-1654	RES. CF 3.3Kohm 1/16W J 0402	1
678		R294	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
679		R295	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
680		R296	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
681		R297	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
682		R298	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
683		R299	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
684		R3	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
685		R30	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
686		R304	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
687		R305	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
688		R306	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
689		R307	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
690		R308	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
691		R309	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
692		R31	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
693		R310	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
694		R311	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
695		R312	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
696		R313	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
697		R314	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
698		R315	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
699		R317	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
700		R318	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
701		R319	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
702		R32	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
703		R320	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
704		R321	0130-1009-1654	RES. CF 10ohm 1/16W J 0402	1
705		R322	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
706		R327	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
707		R328	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
708		R329	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
709		R33	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
710		R330	0130-8201-1654	RES. CF 8.2Kohm 1/16W J 0402	1
711		R331	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
712		R332	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
713		R333	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
714		R334	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
715		R335	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
716		R336	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
717		R34	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
718		R35	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
719		R36	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
720		R37	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
721		R38	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
722		R39	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
723		R41	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
724		R42	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
725		R43	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
726		R44	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
727		R45	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
728		R46	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
729		R47	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
730		R48	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
731		R49	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
732		R50	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
733	R51		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
734	R52		0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
735	R53		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
736	R54		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
737	R55		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
738	R56		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
739	R57		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
740	R58		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
741	R59		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
742	R6		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
743	R60		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
744	R61		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
745	R62		0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
746	R63		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
747	R65		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
748	R67		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
749	R69		0130-5600-1654	RES. CF 560ohm 1/16W J 0402	1
750	R7		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
751	R70		0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
752	R71		0130-1004-1654	RES. CF 1Mohm 1/16W J 0402	1
753	R73		0130-2700-1654	RES. CF 270 ohm 1/16W J 0402	1
754	R74		0130-2700-1654	RES. CF 270 ohm 1/16W J 0402	1
755	R75		0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
756	R76		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
757	R77		0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
758	R78		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
759	R79		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
760	R8		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
761	R80		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
762	R81		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
763	R82		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
764	R83		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
765	R86		0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
766	R87		0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
767	R88		0130-1809-1654	RES. CF 18ohm 1/16W J 0402	1
768	R89		0130-5609-1654	RES. CF 56ohm 1/16W J 0402	1
769	R9		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
770	R90		0130-1809-1654	RES. CF 18ohm 1/16W J 0402	1
771	R91		0130-5609-1654	RES. CF 56ohm 1/16W J 0402	1
772	R93		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
773	R94		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
774	R95		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
775	R96		0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
776	R97		0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
777	R98		0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
778	R99		0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO	DESCRIPTION	QTY
779		U11	0430-3001-5011	IC AT24C16AN-10SI-2 7 SMD 8PIN	1
780		U10	0430-3007-8645	IC MX29LV160BTTC-70G 48PIN TSOP LF	1
781		U10X	0991-2002-2200	SOFTWARE VIZIO L32_SHARP CPU:L32MM219.BIN	1
782		U11	0430-8002-5663	IC M13S128168A-6T 66PIN TSOPII	1
783		U12	0430-8002-5663	IC M13S128168A-6T 66PIN TSOPII	1
784		U13	0430-6010-9004	IC LP2996MX 8PIN SO-8	1
785		U14	0430-6002-8079	IC AP1117E25LA SOT-223 L-F	1
786		U15	0430-6009-7051	IC AMC1117-1.8SKFT SMD 3PIN (SOT-223)L-F	1
787	SS		0430-6009-7075	IC AME1117ECGTZ 1.8V 3PIN SOT-223 L-F	
788	SS		0430-6009-7087	IC PJ1117CW-1.8 SOT-223 L-F	
789		U16	0430-7027-3738	IC SiL9011CLU 128PIN LQFP LF	1
790		U17	0430-3001-1011	IC AT24C02N-10SI-2.7 SMD 8PIN	1
791	SS		0430-3000-5017	IC 24LC02B/SN SMD 8PIN	
792		U18	0430-3001-1011	IC AT24C02N-10SI-2.7 SMD 8PIN	1
793	SS		0430-3000-5017	IC 24LC02B/SN SMD 8PIN	
794		U20	0430-3006-0619	IC MM1492AF 44PIN SOP-44B	1
795		U21	0430-3006-1065	IC IDTQS3VH257Q 3.3V QSOP 16PIN	1
796		U22	0430-7027-2699	IC WM8776EFT 48PIN TQFP	1
797		U26	0430-7033-3016	IC ASM809MEURF-T 4.38V SOT23 LF	1
798		U4	0430-6004-5004	IC LM2596S-3.3 5PIN TO-263	1
799		U5	0430-6009-7051	IC AMC1117-1.8SKFT SMD 3PIN (SOT-223)L-F	1
800	SS		0430-6009-7075	IC AME1117ECGTZ 1.8V 3PIN SOT-223 L-F	
801	SS		0430-6009-7087	IC PJ1117CW-1.8 SOT-223 L-F	
802		U7	0420-1001-6601	POWER MOS IRF7316TR SMD 8PIN	1
803	SS		0420-2001-0626	MOSFET P-CH 7A 30V P07B03LV SOP-8	
804	SS		0420-2001-2621	MOSFET P-CH 4.9A 30V Si4953DY SO-8	
805		U9	0430-7027-4999	IC MT8205 388PIN BGA	1
806		ZDA1	0400-0941-2012	ZENER RLZ-10B 9.41~9.90V 1/2W LL-34 L-F	1

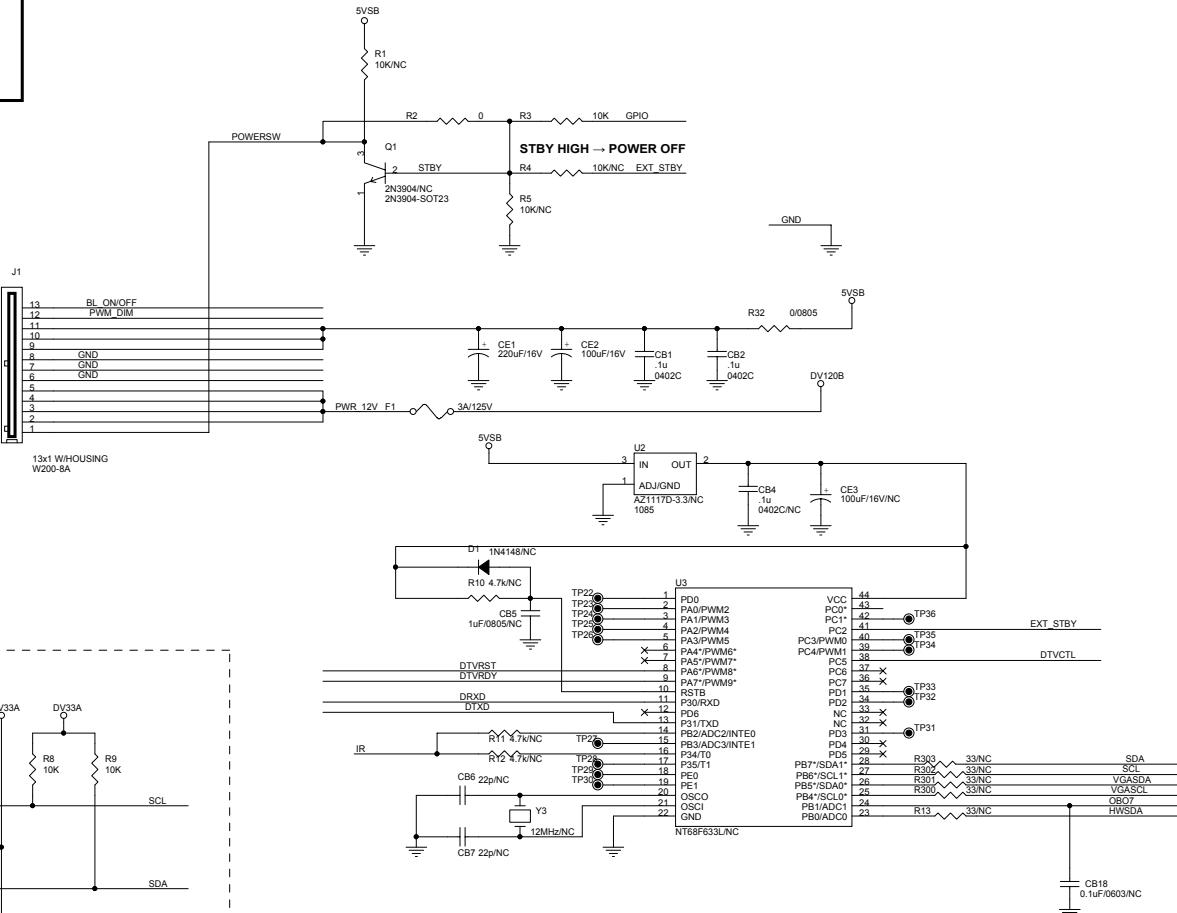
D-MT8205AMT1V1

MT8205E (PBGA388) LCDTV BOARD 4 LAYERS

01. INDEX & POWER CONNECTOR
02. MT8205 DIGITAL POWER
03. MT8205 ANALOG POWER
04. MT8205 PBGA 388
05. DDR MEMORY & FLASH
06. DVI INPUT - Si169B
07. VIDEO / AUDIO INPUT
08. TV & DTV INPUT
09. AV SWITCH - MM1492
10. VIDEO INPUT
11. AUDIO OUT
12. LVDS OUT & KEYPAD

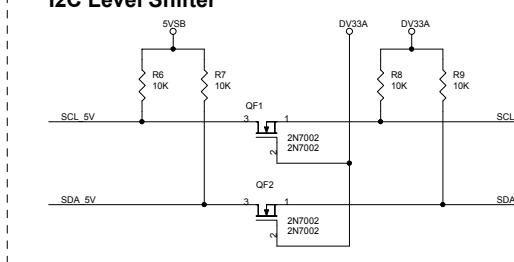
Rev	History	P#	Date
AMT1_V1			2004/09/23

POWER IN



NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"
 ALL RESISTORS 0402 WATT .5% UNLESS NOTED.
 ALL RESISTORS VALUES IN OHMS UNLESS NOTED.
 ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.
 ALL CAPACITOR VALUES IN UF UNLESS NOTED.
 ALL RESISTORS 25 VOLT IN 1.1uF UNLESS NOTED.
 NC = METAL 1%

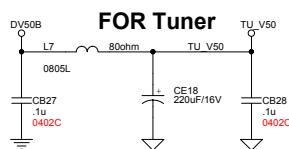
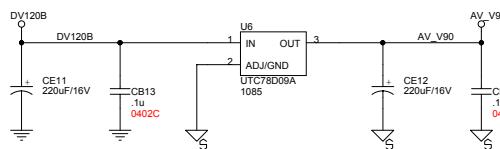
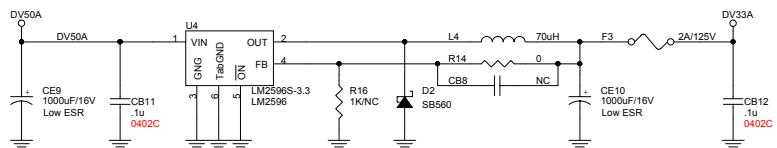
I2C Level Shifter



AmTRAN TECHNOLOGY		MODEL	VIZIO L32 (3200-0120-0150)
CIRCUITY	INDEX & POWER CONNECTOR		
CHECKED BY:		PCB P/N:	0171-2242-1791
		ECN NO.:	APCN05010016
		REV.:	01
APPROVED BY:		SCH FILE:	VINC32-M1.DSN
		PCB REV.:	01
		PCB FILE:	VINC32-M1.PCB
		DATE:	Wednesday, March 02, 2005

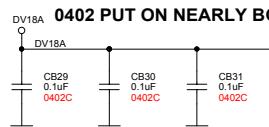
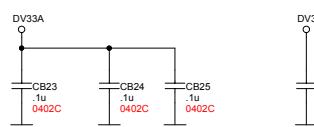
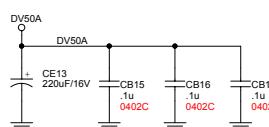
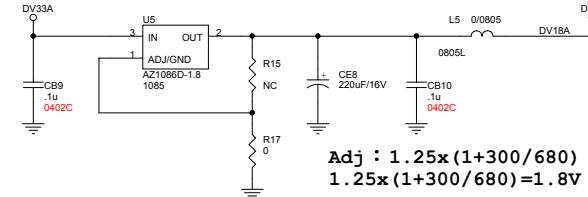
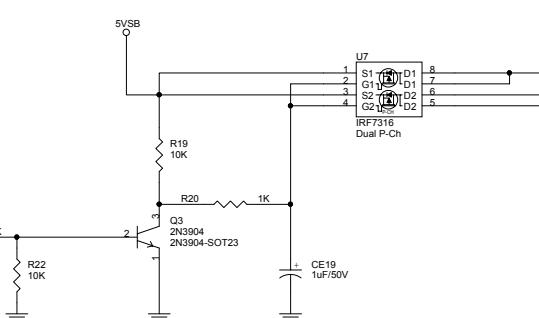
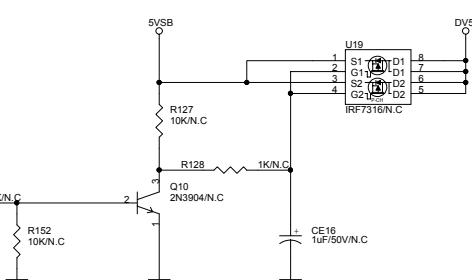
MT8205 DIGITAL POWER & DECOUPLING

GPIO 4

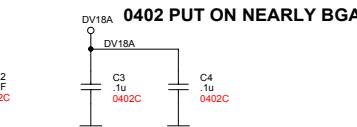


High => STANDBY POWER ON
 Low => STANDBY POWER OFF

High => STANDBY POWER ON
 Low => STANDBY POWER OFF



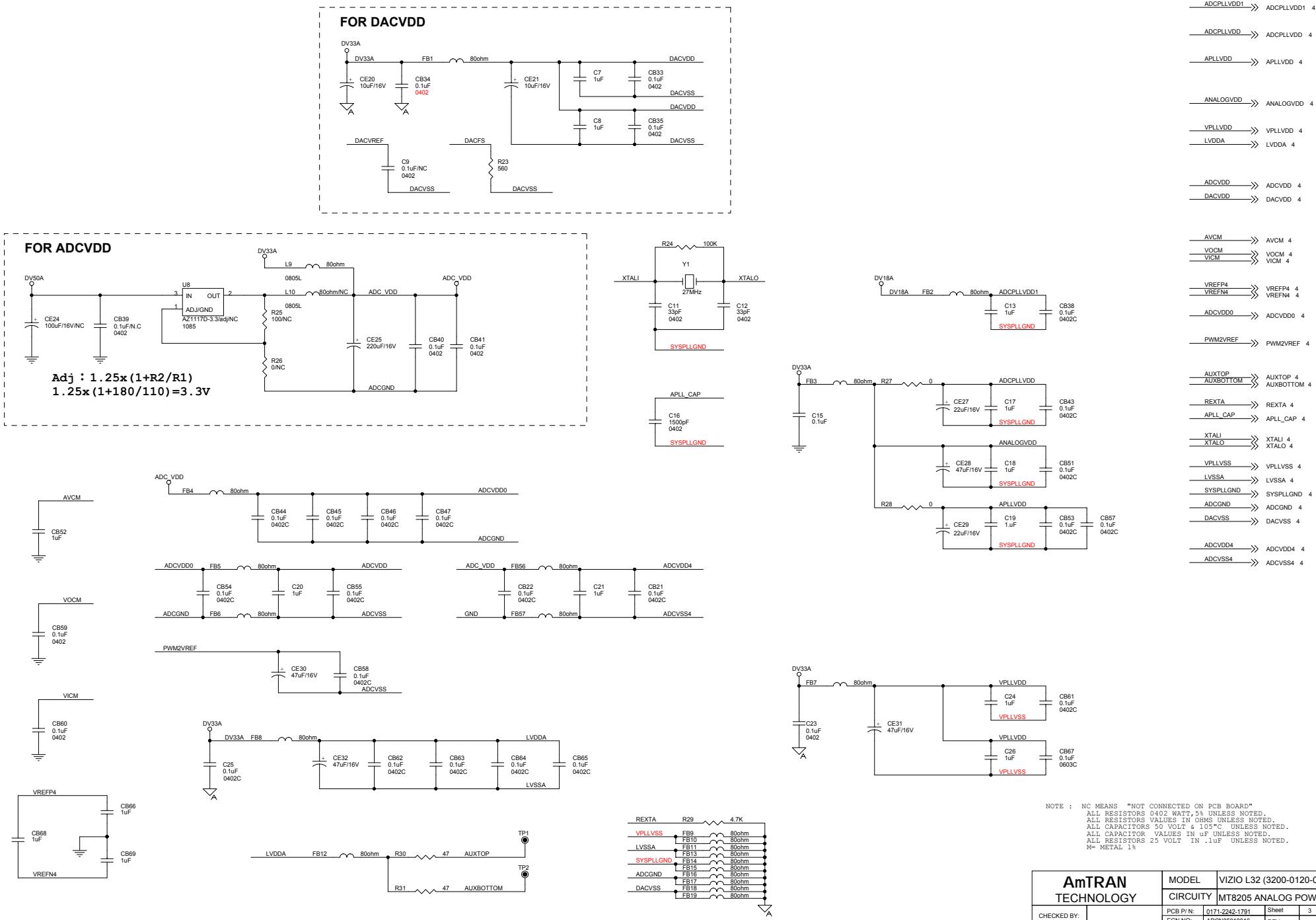
0402 PUT ON NEARLY BGA

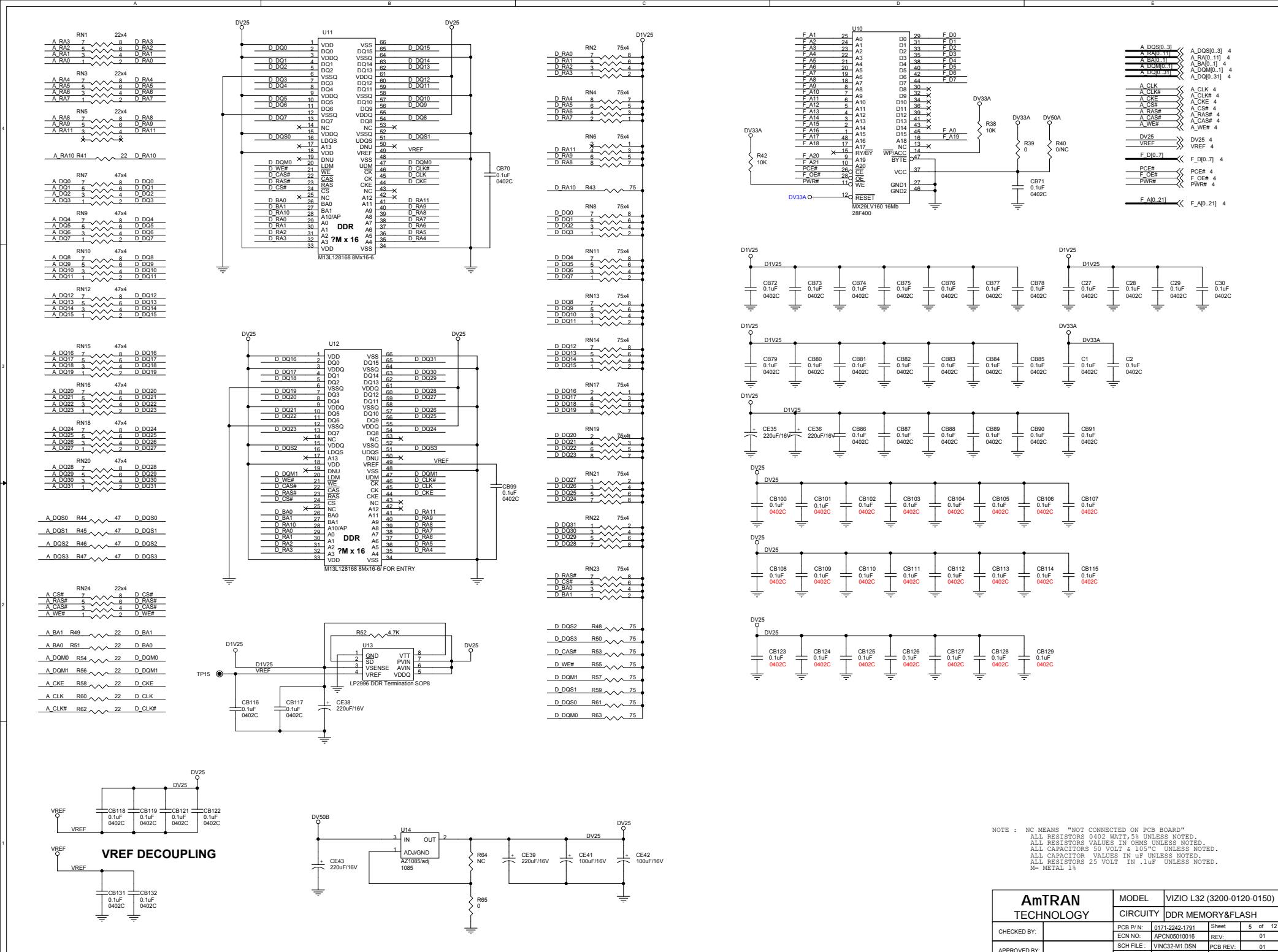


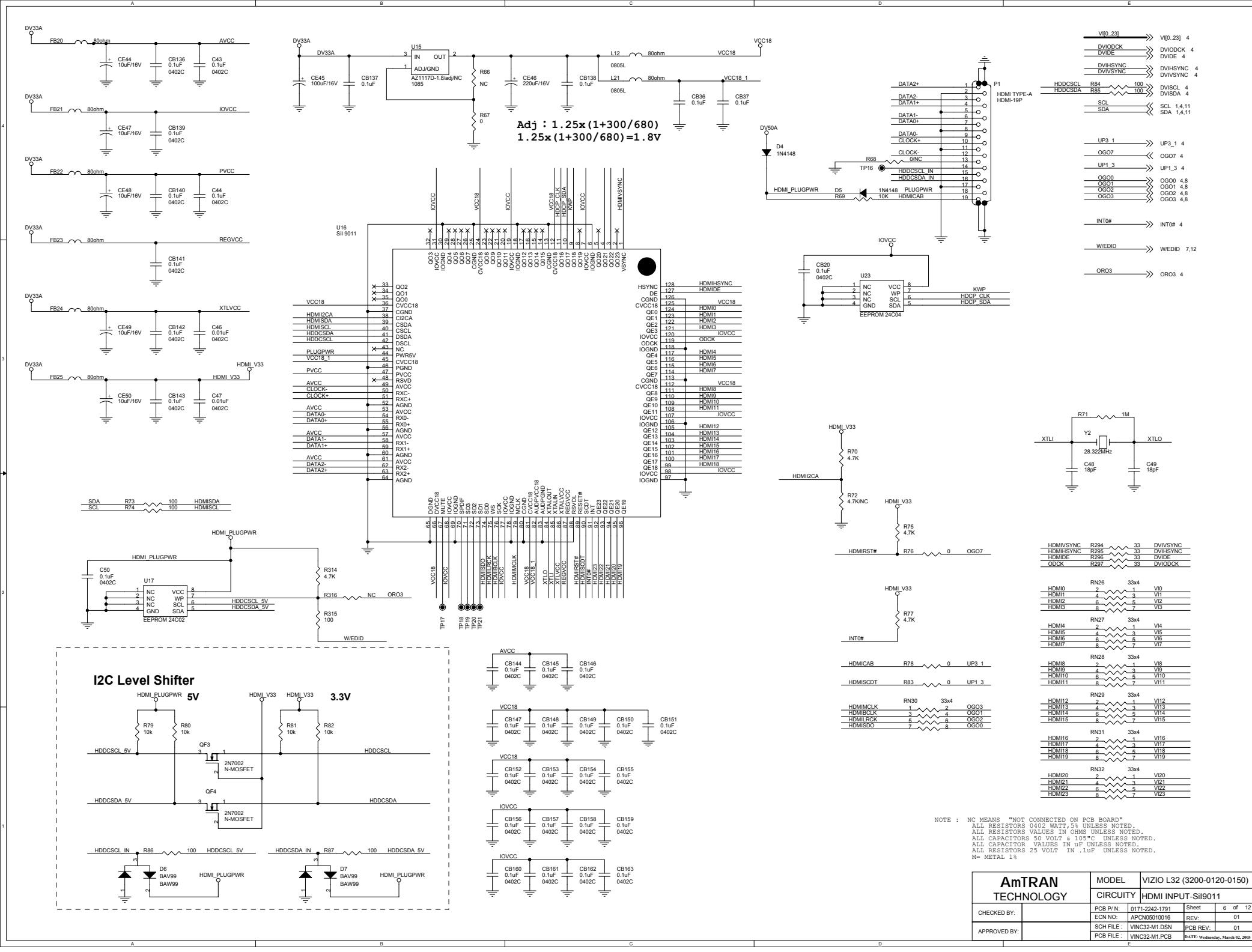
NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"
 ALL RESISTORS 0402 WATT, 5% UNLESS NOTED.
 ALL RESISTORS VALUES IN 6MHS UNLESS NOTED.
 ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.
 ALL CAPACITOR VALUES IN uF UNLESS NOTED.
 ALL RESISTORS 25 VOLT IN .1uF UNLESS NOTED.
 NC = METAL 1%

AmTRAN TECHNOLOGY	MODEL	VIZIO L32 (3200-0120-0150)
CIRCUITY	PCB P/N:	Sheet
CHECKED BY:	0171-2242-1791	2 of 12
ECON NO.:	APCN05010016	REV. 01
APPROVED BY:	SCH FILE : VINC32-M1.DSN	PCB REV. 01
	PCB FILE : VINC32-M1.PCB	DATE: Wednesday, March 02, 2005

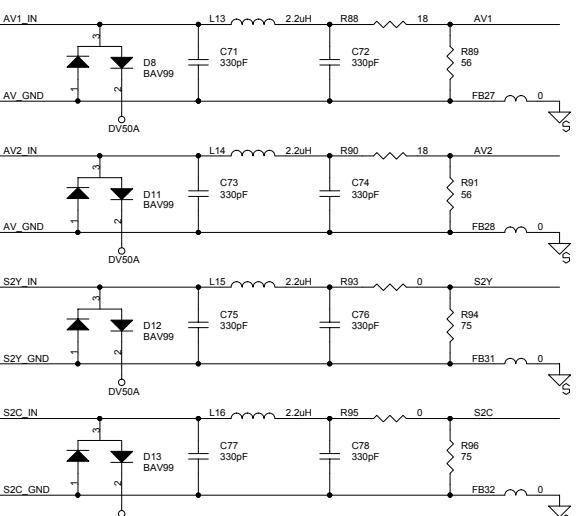
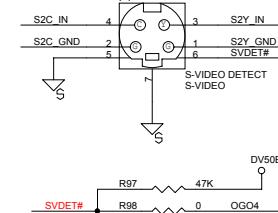
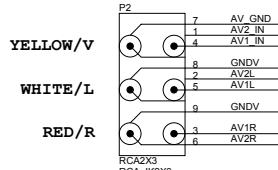
MT8205 ANALOG POWER AND DECOUPLING



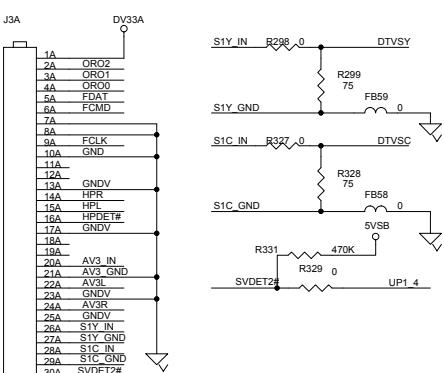
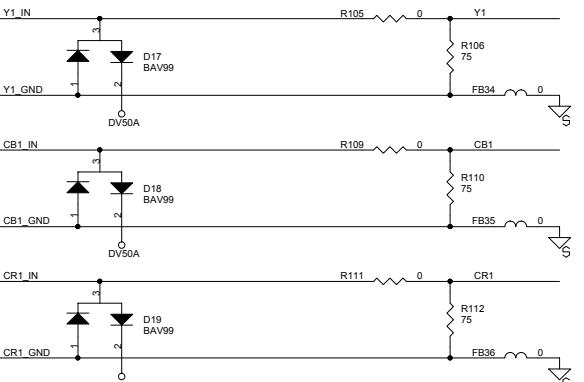
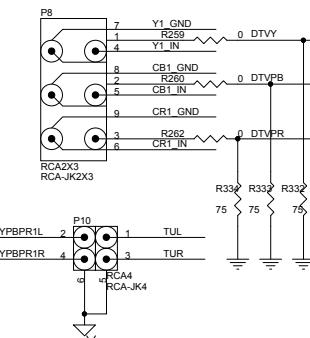




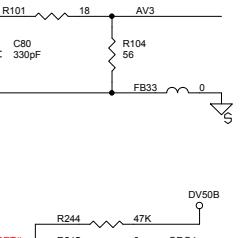
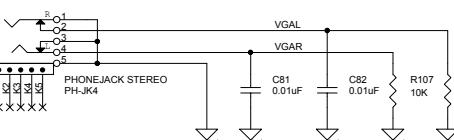
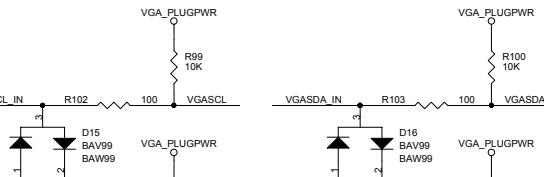
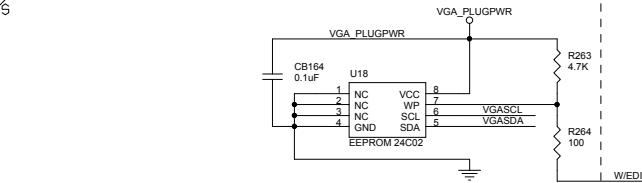
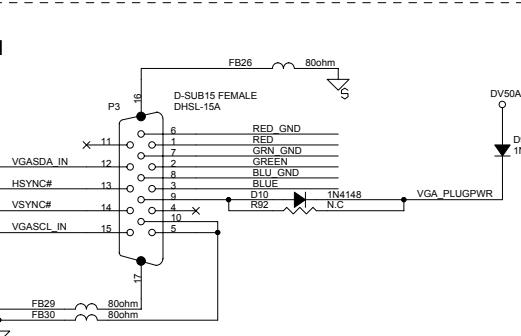
AV1 / AV2 Input



YPBPR Input.



VGA IN



AV1 → AV1 9
AV1L → AV1L 9
AV1R → AV1R 9

AV2 → AV2 9
S2Y → S2Y 9
S2C → S2C 9
AV2L → AV2L 9
AV2R → AV2R 9
OGO4 → OGO4 4
SVDET# → SVDET# 9
AV3 → AV3 9
AV3L → AV3L 9
AV3R → AV3R 9

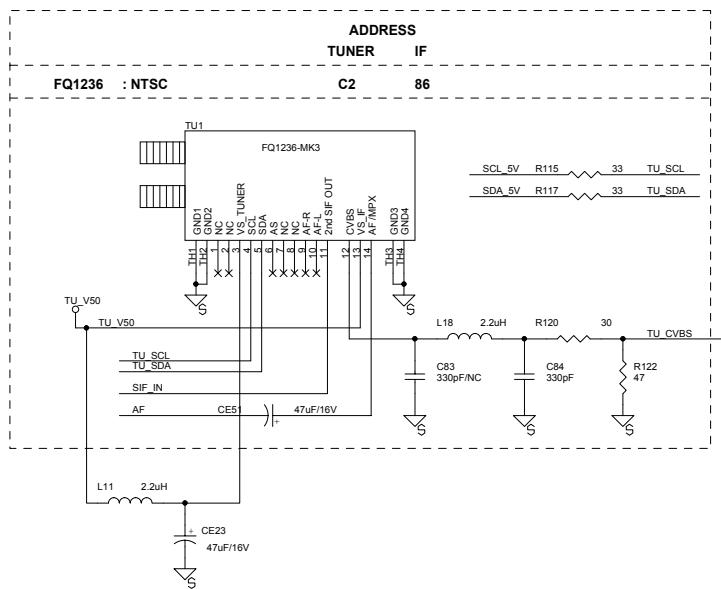
VGASCL → VGASCL 1,4
VGASDA → VGASDA 1,4
VGAL → VGAR 11
VGR → VGAR 11
HSYNC# → HSYNC# 10
VSYNC# → VSYNC# 10
RED → RED 10
RED_GND → RED_GND 10
GREEN → GREEN 10
GREEN_GND → GREEN_GND 10
BLUE → BLUE 10
BLUE_GND → BLUE_GND 10

Y1 → Y1 9
Y1_GND → Y1_GND 9
CB1 → CB1 9
CB1_GND → CB1_GND 9
CR1 → CR1 9
CR1_GND → CR1_GND 9
YPBPR1L → YPBPR1L 9
YPBPR1R → YPBPR1R 9

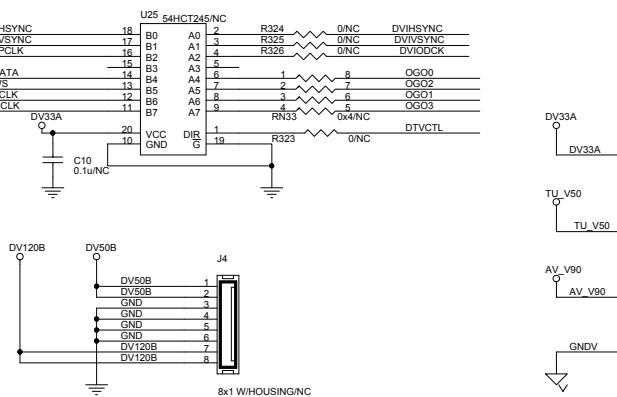
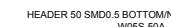
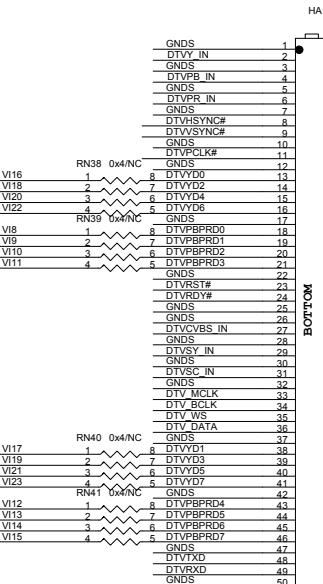
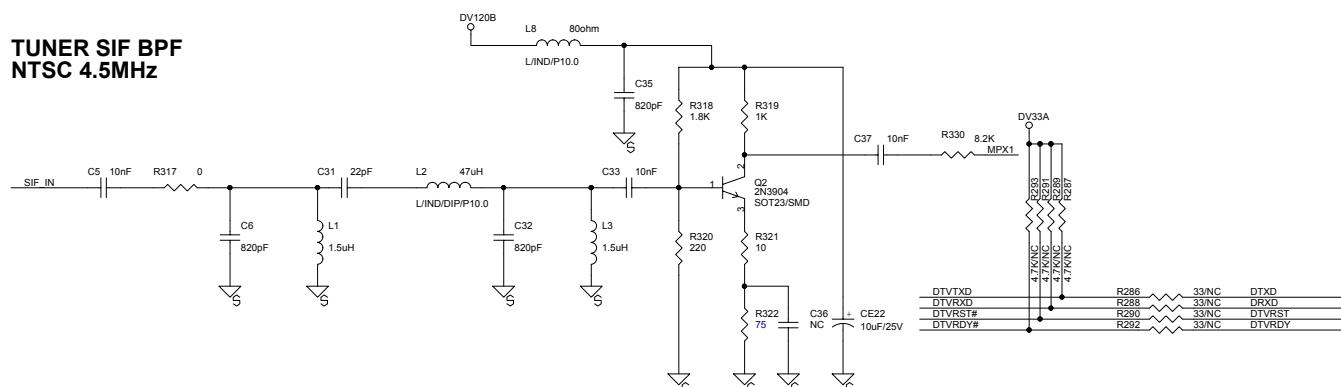
FCLK → FCLK 4
FCMD → FCMD 4
FDAT → FDAT 4
OR00 → OR00 4
OR01 → OR01 4
OR02 → OR02 4
OR04 → OR04 4
HPOUTR → HPOUTR 11
HPOUTL → HPOUTL 11
TUL → TUL 9
TUR → TUR 9
W/EDID → W/EDID 6,12
DTVSY → DTVSY 9
DTVSC → DTVSC 9
UP1_4 → UP1_4 4
DTVY → DTVY 9
DTPB → DTPB 9
DTPR → DTPR 9

NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"
ALL RESISTORS 0402 WATT, 5% UNLESS NOTED.
ALL CAPACITORS VALUES IN uF UNLESS NOTED.
ALL RESISTORS 50 VOLT & 105°C UNLESS NOTED.
ALL CAPACITOR VALUES IN uF UNLESS NOTED.
ALL RESISTORS 25 VOLT IN .1uF UNLESS NOTED.
M= METAL 1%

AmTRAN TECHNOLOGY		MODEL	VIZIO L32 (3200-0120-0150)
CIRCUITY	VIDEO / AUDIO INPUT		
CHECKED BY:		PCB P/N: 0171-2242-1791	Sheet 7 of 12
APPROVED BY:		EON NO: APCN05010016	REV. 01
		SCH FILE: VINC32-M1.DSN	PCB REV. 01
		PCB FILE: VINC32-M1.PCB	DATE: Wednesday, March 02, 2005



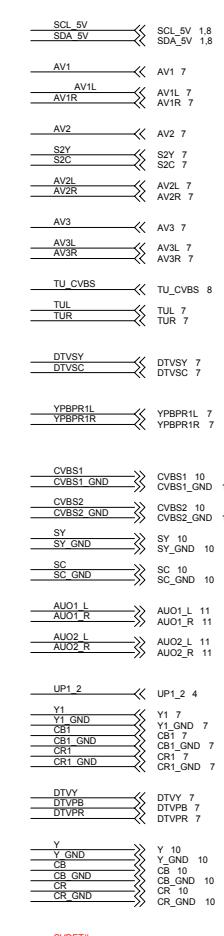
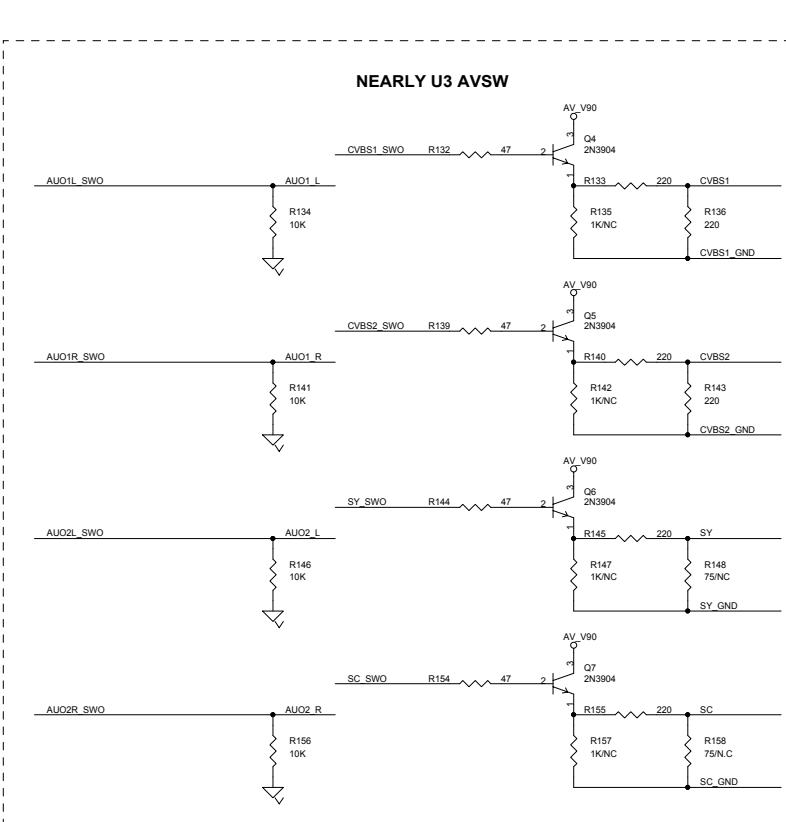
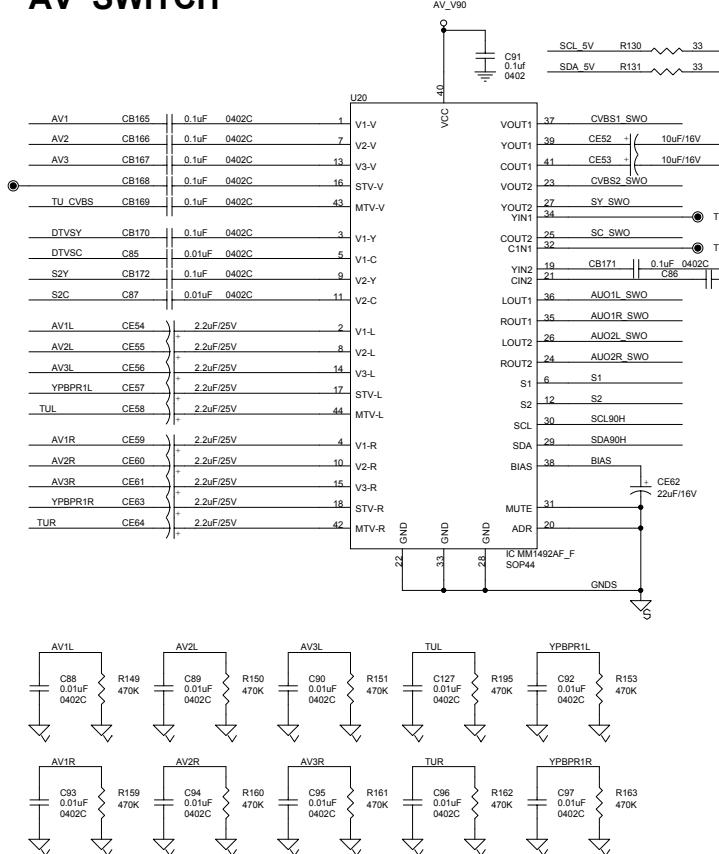
**TUNER SIF BPF
NTSC 4.5MHz**



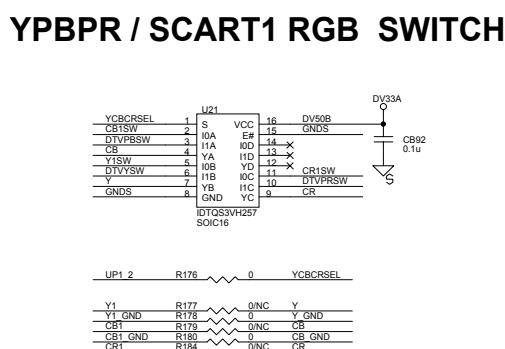
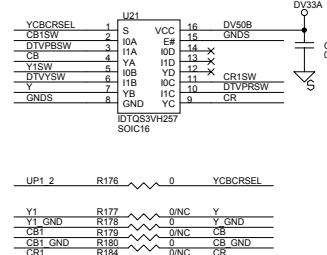
NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"
ALL RESISTORS 0402 WATT, 5% UNLESS NOTED.
ALL RESISTORS VALUES IN OHMS UNLESS NOTED.
ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.
ALL CAPACITOR VALUES IN μ F UNLESS NOTED.
ALL RESISTORS 25 VOLT IN .1uF UNLESS NOTED.
M= METAL 1%

AmTRAN TECHNOLOGY	MODEL	VIZIO L32 (3200-0120-0150)		
	CIRCUITY	TV & DTV INPUT		
CHECKED BY:	PCB P/N:	0171-2242-1791	Sheet	8 of 12
	ECN NO.:	APCNO5010016	REV.	01
APPROVED BY:	SCH FILE:	VINC32-M1.DSN	PCB REV.:	01
	PCB FILE:	VINC32-M1.PCB	DATE: Wednesday, March 02, 2005	

AV SWITCH

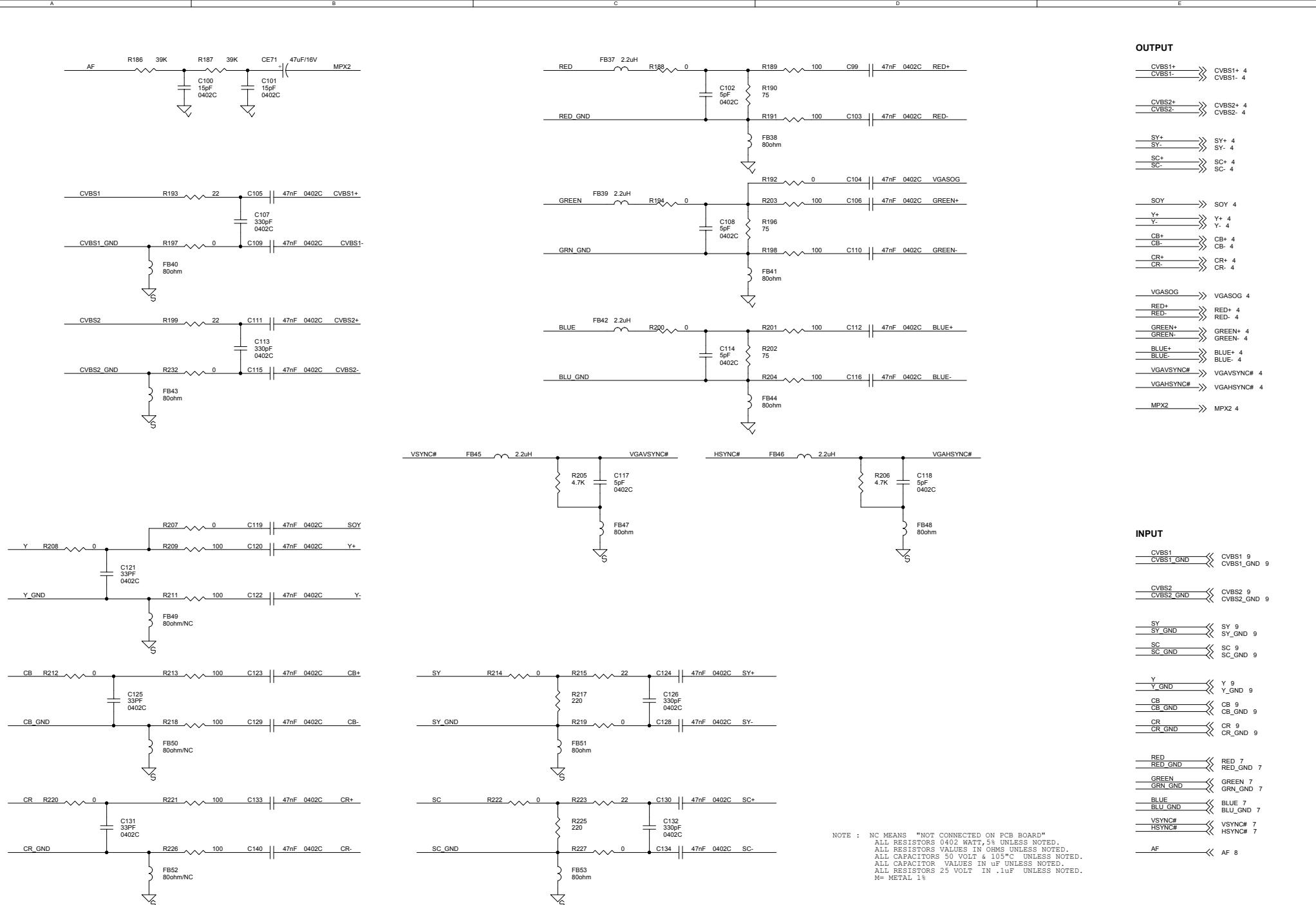


YPBPR / SCART1 RGB SWITCH

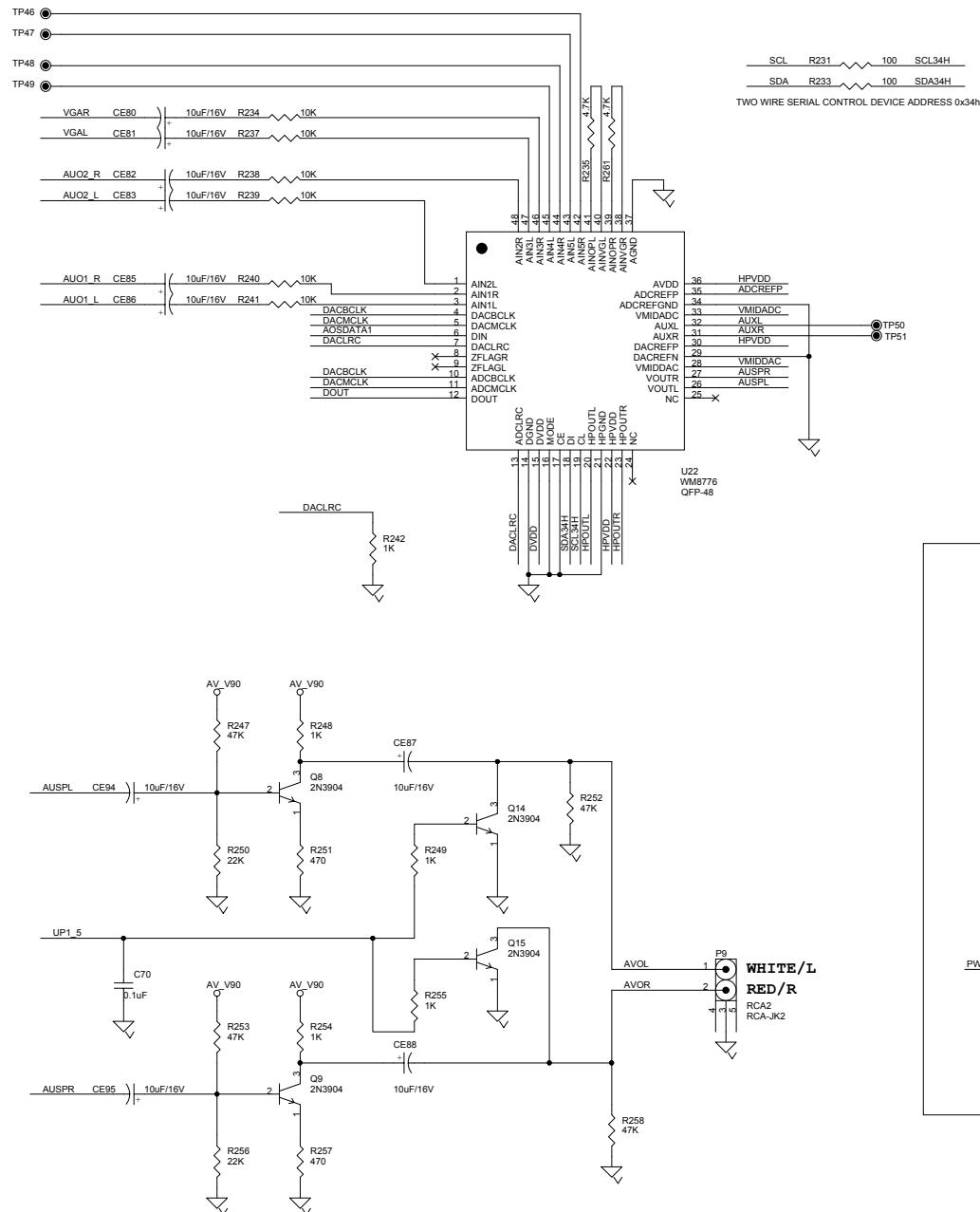


NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"
ALL RESISTORS 0402 WATT .5% UNLESS NOTED.
ALL RESISTORS VALUES IN OHMS UNLESS NOTED.
ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.
ALL CAPACITOR VALUES IN uF UNLESS NOTED.
ALL RESISTORS 25 VOLT IN .1uF UNLESS NOTED.
M= METAL 1%

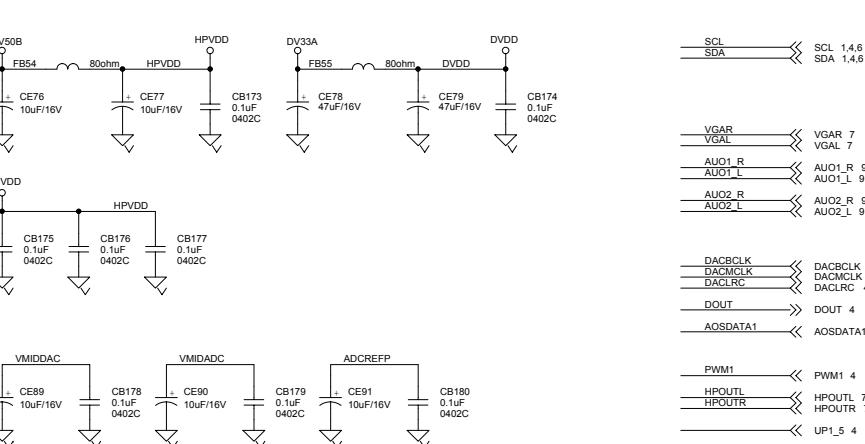
AmTRAN TECHNOLOGY	MODEL	CIRCUITY
CIRCUITY	VIZIO L32 (3200-0120-0150)	AV SWITCH
CHECKED BY:	PCB P/N: 0171-1242-1791	Sheet 9 of 12
APPROVED BY:	ECN NO: ACPN05010016	REV: 01
SCH FILE:	VIN32-M1.DSN	DATE: Wednesday, March 02, 2005
PCB FILE:	VIN32-M1.PCB	



AmTRAN TECHNOLOGY	MODEL	VIZIO L32 (3200-0120-0150)
	CIRCUITY	VIDEO OUT
CHECKED BY:	PCB P/N: 0171-2242-1791	Sheet 10 of 12
APPROVED BY:	ECONO: APCN05010016	REV. 01
	SCH FILE: VINC32-M1.DSN	PCB REV. 01
	PCB FILE: VINC32-M1.PCB	DATE: Wednesday, March 02, 2005

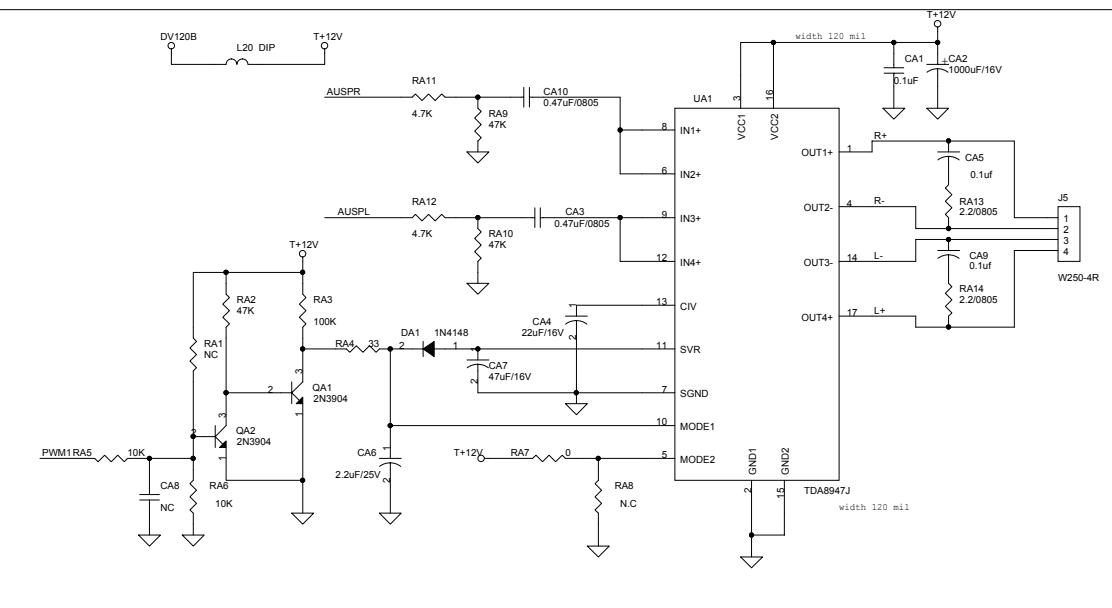


SCL R231 100 SCL34H
SDA R233 100 SDA34H
TWO WIRE SERIAL CONTROL DEVICE ADDRESS 0x34h

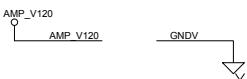


VGAR
VGAL
AUO1_R
AUO1_L
AUO2_R
AUO2_L
AUO1_R 9
AUO1_L 9
AUO2_R 9
AUO2_L 9

DACBCLK
DACPCLK
DACLRC
DACLRC 4
DOUT
DOUT 4
AOSDATA1
AOSDATA1 4
PWM1
HPOUTL
HPOUTR
HPOUTL 7
HPOUTR 7
UP1_5
UP1_5 4

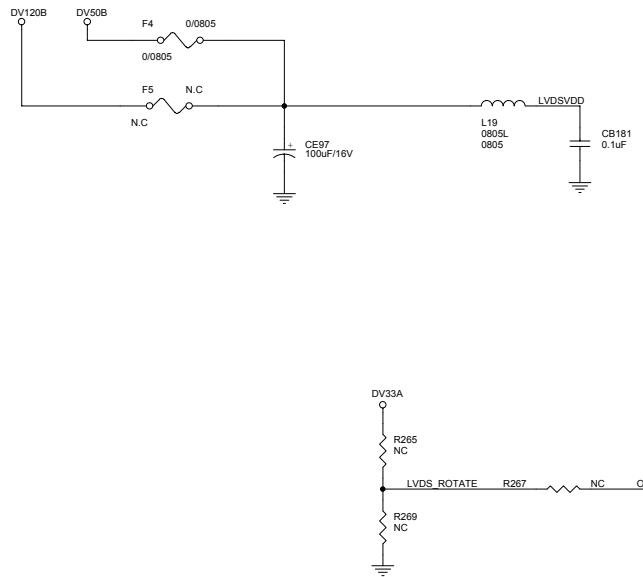


NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"
ALL RESISTORS 0402 WATT, 5% UNLESS NOTED.
ALL RESISTORS VALUES IN OHMS UNLESS NOTED.
ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.
ALL CAPACITOR VALUES IN μ F UNLESS NOTED.
ALL RESISTORS 25 VOLT IN .1uF UNLESS NOTED.
M= METAL 1%

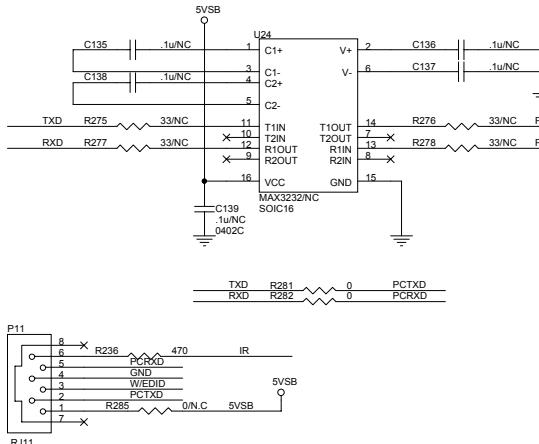


AmTRAN TECHNOLOGY		MODEL	VIZIO L32 (3200-0120-0150)
CIRCUITY	AUDIO OUT		
CHECKED BY:		PCB P/N: 0171-2242-1791	Sheet 11 of 12
		ECON NO: APCN05010016	REV. 01
APPROVED BY:		SCH FILE: VINC32-M1.DSN	PCB REV. 01
		PCB FILE: VINC32-M1.PCB	DATE: Wednesday, March 02, 2005

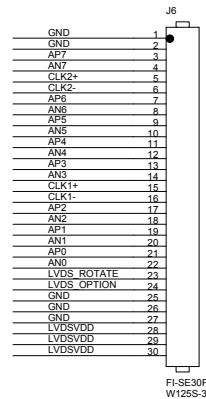
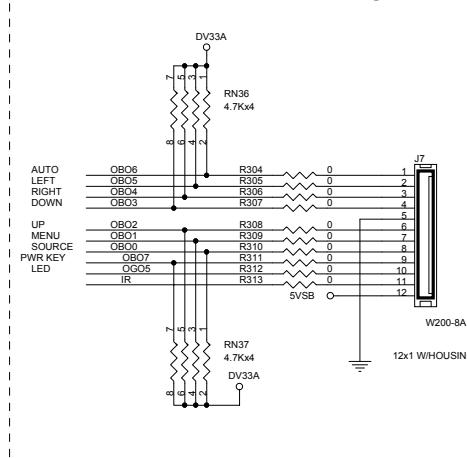
LVDS OUT



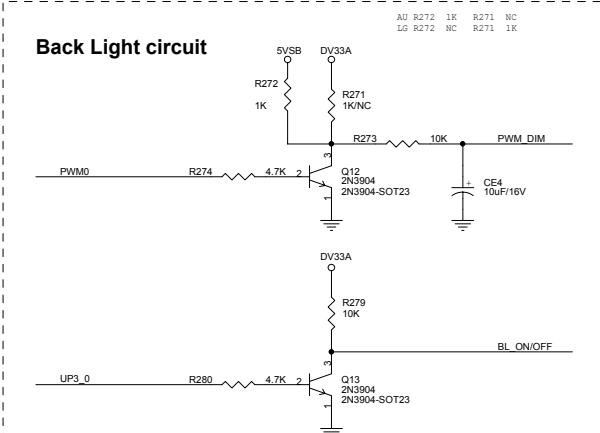
RS-232



KEYPAD - MAX 7-KEYS

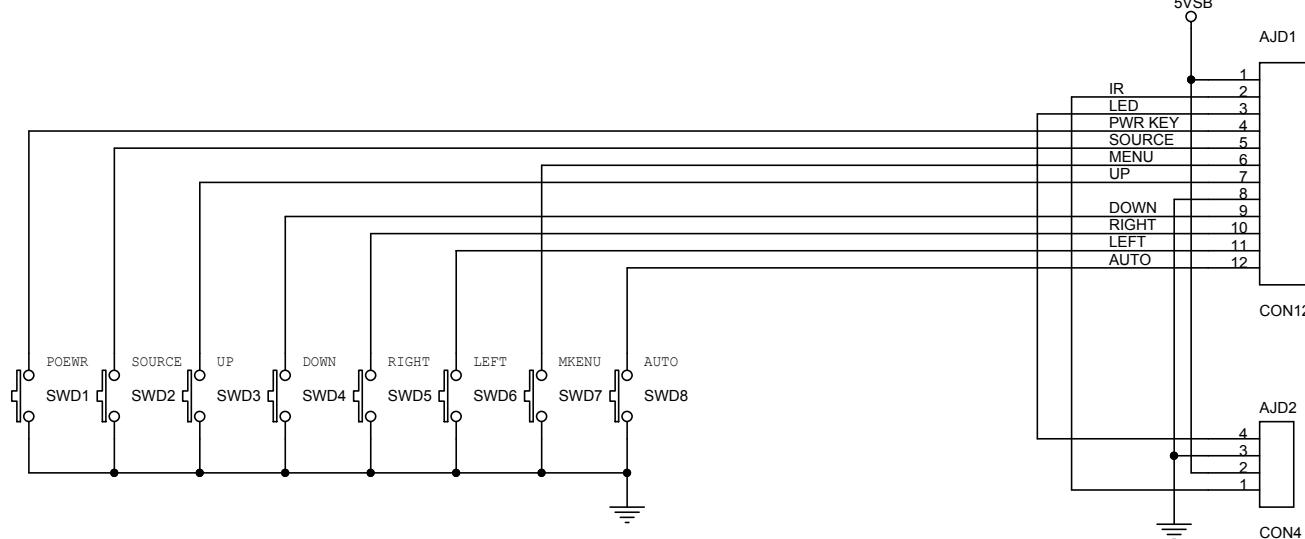
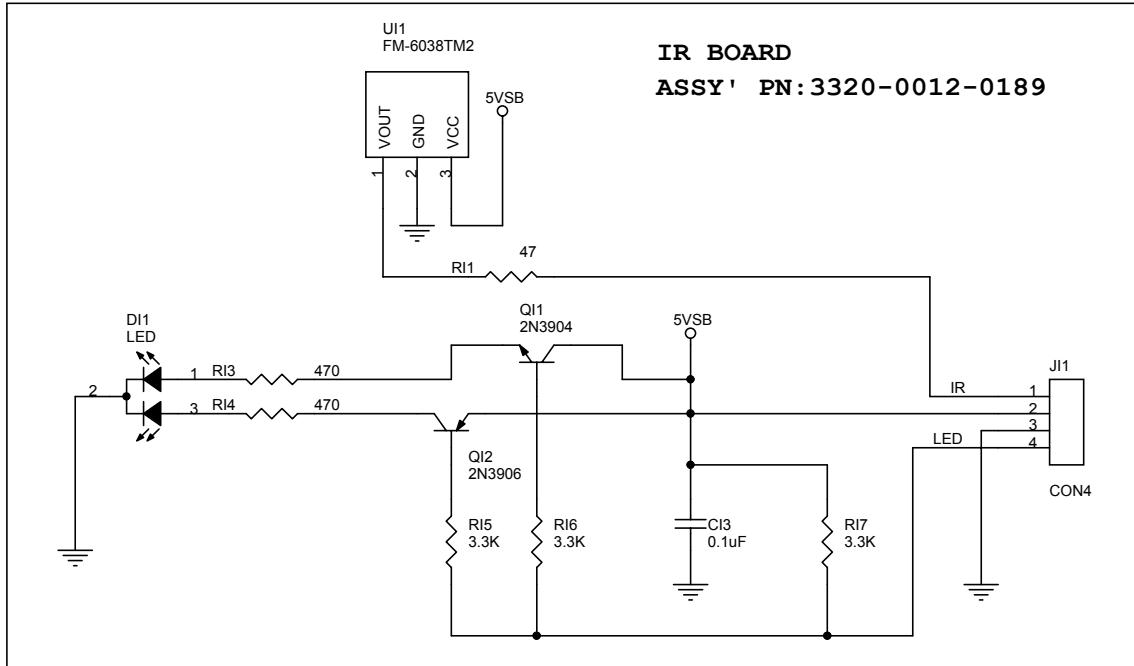


Back Light circuit



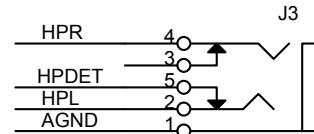
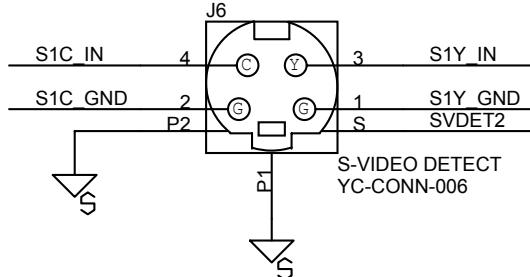
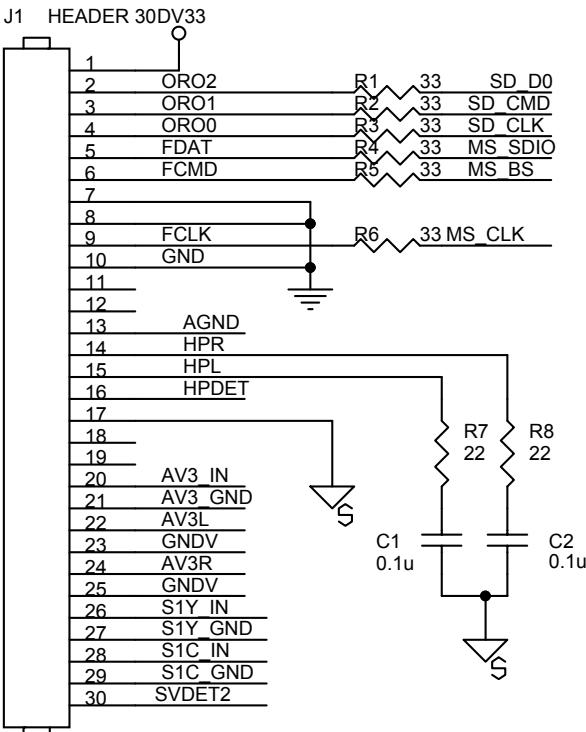
NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"
ALL RESISTORS 0402 WATT .5% UNLESS NOTED.
ALL RESISTORS VALUES IN OHMS UNLESS NOTED.
ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.
ALL CAPACITOR VALUES IN uF UNLESS NOTED.
ALL RESISTORS 25 VOLT IN .1uF UNLESS NOTED.
M= METAL 1%

AmTRAN TECHNOLOGY	MODEL	VIZIO L32 (3200-0120-0150)
CIRCUITY	LVDS OUT & KEYPAD	
CHECKED BY:	PCB P/N: 0171-2242-1791	Sheet 12 of 12
	EON NO.: APCN05010016	REV. 01
APPROVED BY:	SCH FILE: VINC32-M1.DSN	PCB REV. 01
	PCB FILE: VINC32-M1.PCB	DATE: Wednesday, March 02, 2005

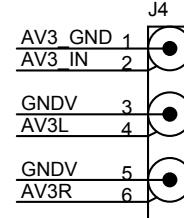


NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"
 ALL RESISTORS 0402 WATT, 5% UNLESS NOTED.
 ALL RESISTORS VALUES IN OHMS UNLESS NOTED.
 ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.
 ALL CAPACITOR VALUES IN uF UNLESS NOTED.
 ALL RESISTORS 25 VOLT IN .1uF UNLESS NOTED.
 M= METAL 1%

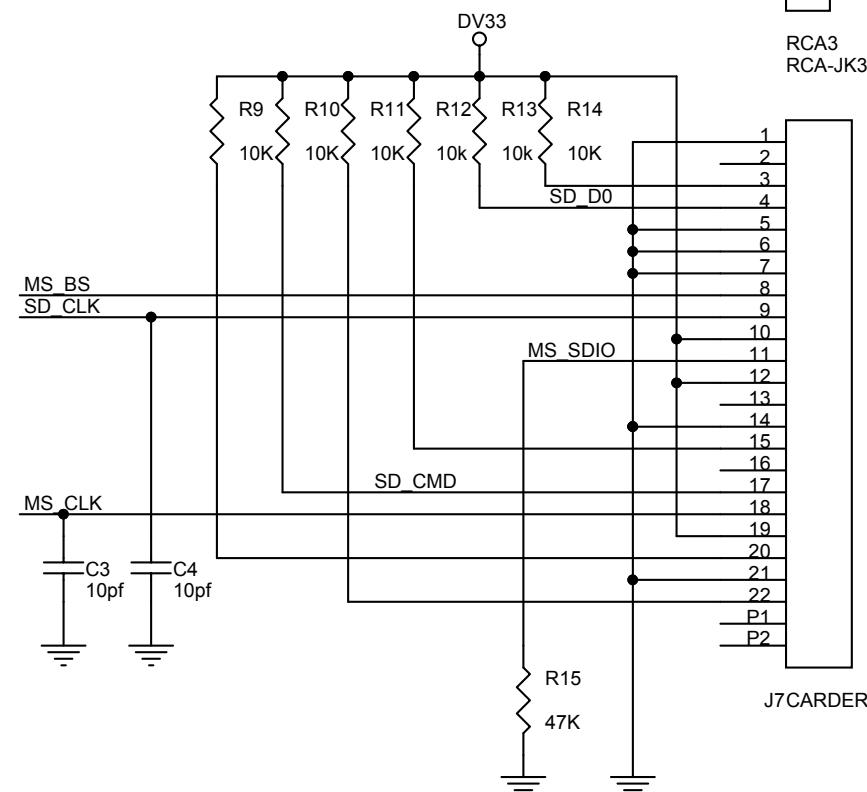
AmTRAN TECHNOLOGY	MODEL	VIZIO L32 (3320-0012-0156)		
	CIRCUITY	IR & KEYPAD		
CHECKED BY:		PCB P/N:	0170-1740-1411	Sheet 1 of 1
		ECN NO.:	APCN05010016	REV: 01
APPROVED BY:		SCH FILE :	VINC32-M1.DSN	PCB REV: 01
		PCB FILE :	VINC32-D1.PCB	DATE: Tuesday, March 15, 2005



PHONEJACK 5P



RCA3
RCA-JK3B



NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"
 ALL RESISTORS 0402 WATT, 5% UNLESS NOTED.
 ALL RESISTORS VALUES IN OHMS UNLESS NOTED.
 ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.
 ALL CAPACITOR VALUES IN μ F UNLESS NOTED.
 ALL RESISTORS 25 VOLT IN .1 μ F UNLESS NOTED.
 M= METAL 1%

**AmTRAN
TECHNOLOGY**

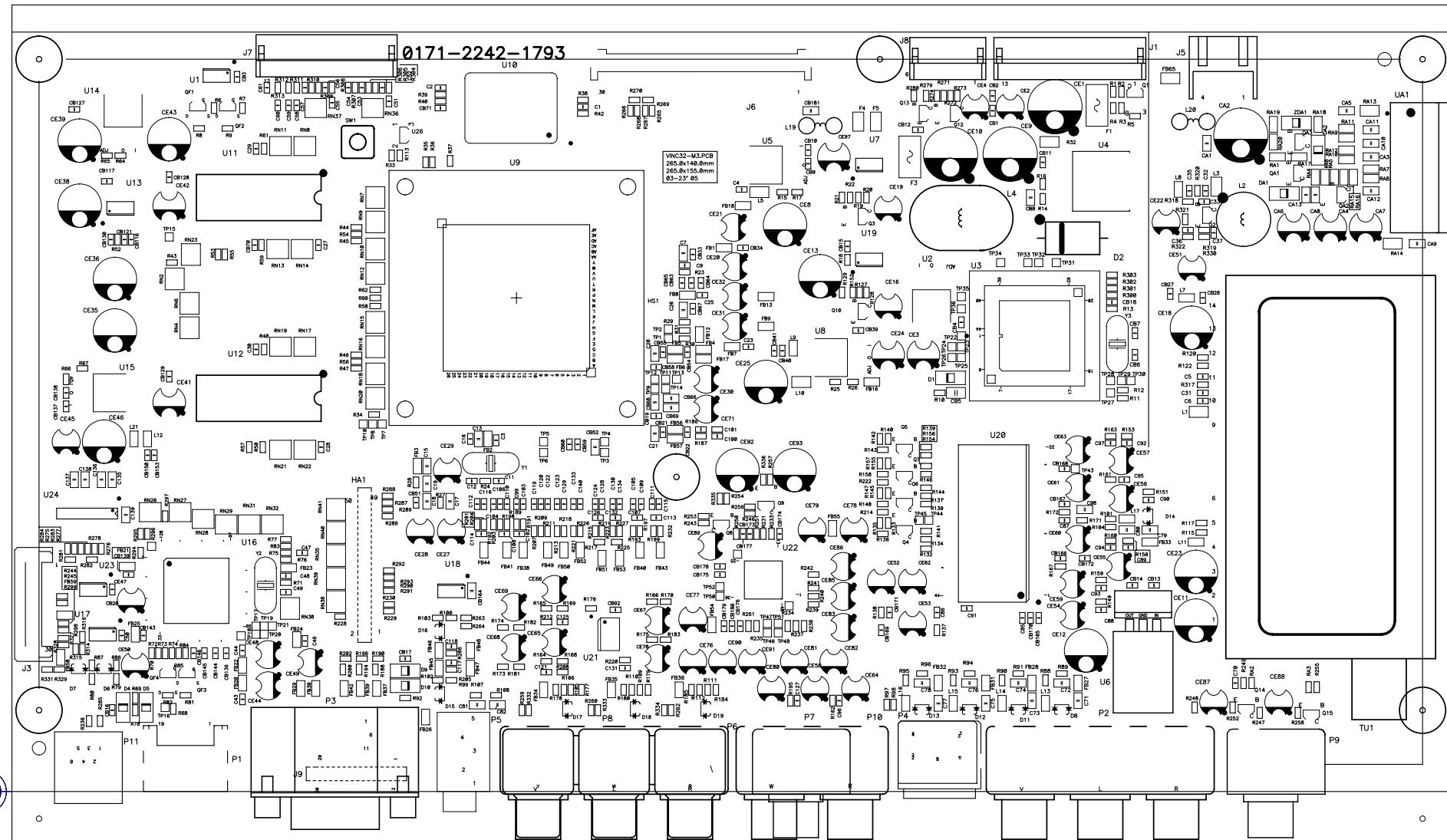
AmTRAN TECHNOLOGY		MODEL	VIZIO L32 (3320-0012-0146)	
CIRCUITY		CONNECTOR		
CHECKED BY:		PCB P/N:	0171-3841-0032	Sheet 1 of 1
		ECN NO:	APCN05010016	REV: 01
APPROVED BY:		SCH FILE :	VINC32-M1.DSN	PCB REV: 02
		PCB FILE :	VINC32-C2.PCB	DATE: Tuesday, March 15, 2005

 AmTRAN Co., Ltd.
 0171-2242-1793
 FR4 4M 1.6T
 SIZE:265.0x140.0mm
 PNL.:265.0x155.0mm
 Q'TY: 80 PCS
 Rec.: 03-29

COMP TEXT

 Top
 GND
 VCC
 VCC-SCH
 Bottom

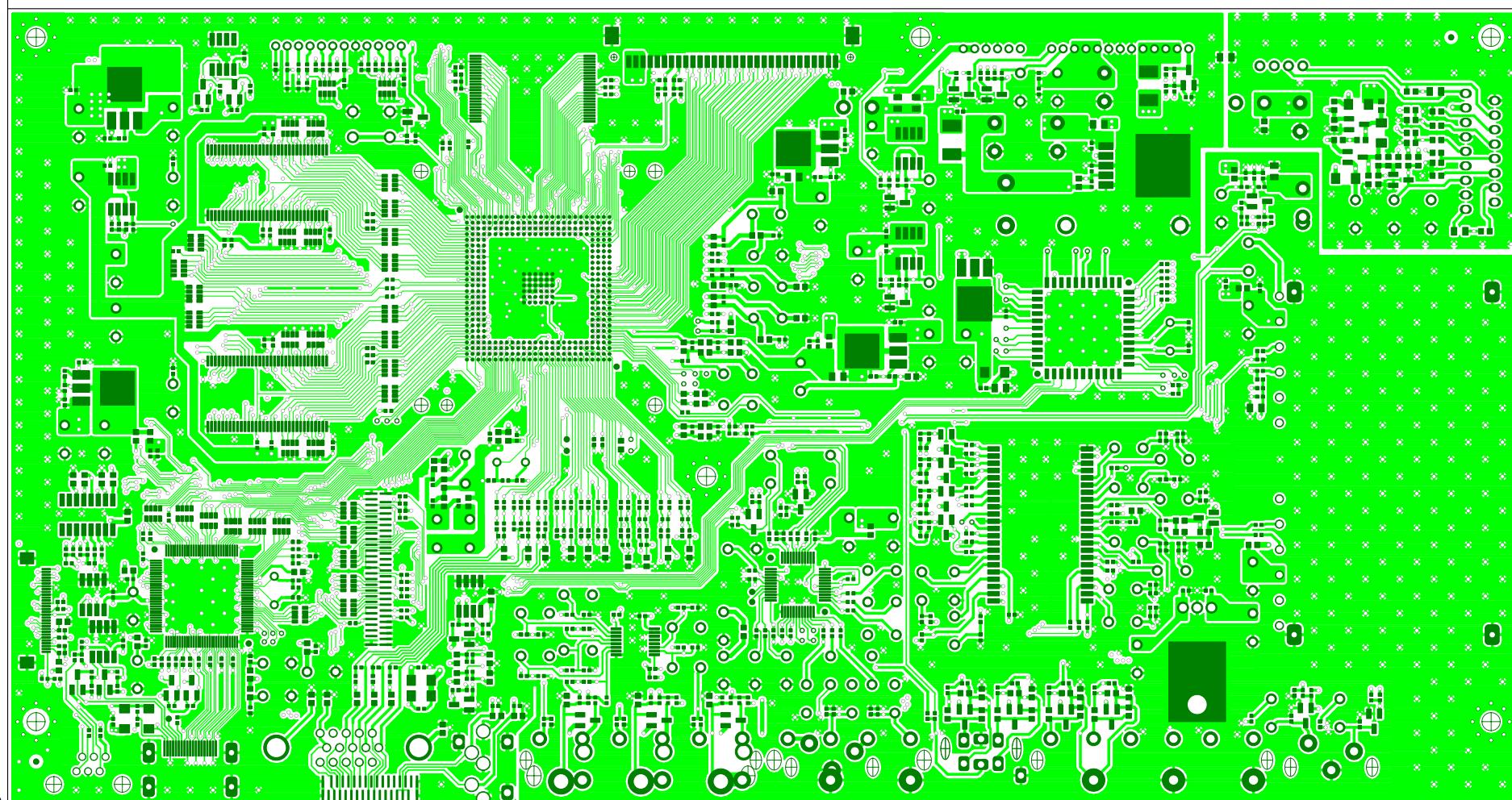
Layer StackUp



AmTRAN Co., Ltd.
0171-2242-1793
FR4 4M 1.6T
SIZE:265.0x140.0mm
PNL.:265.0x155.0mm
Q'TY: 80 PCS
Rec.: 03-29

COMP TRACE

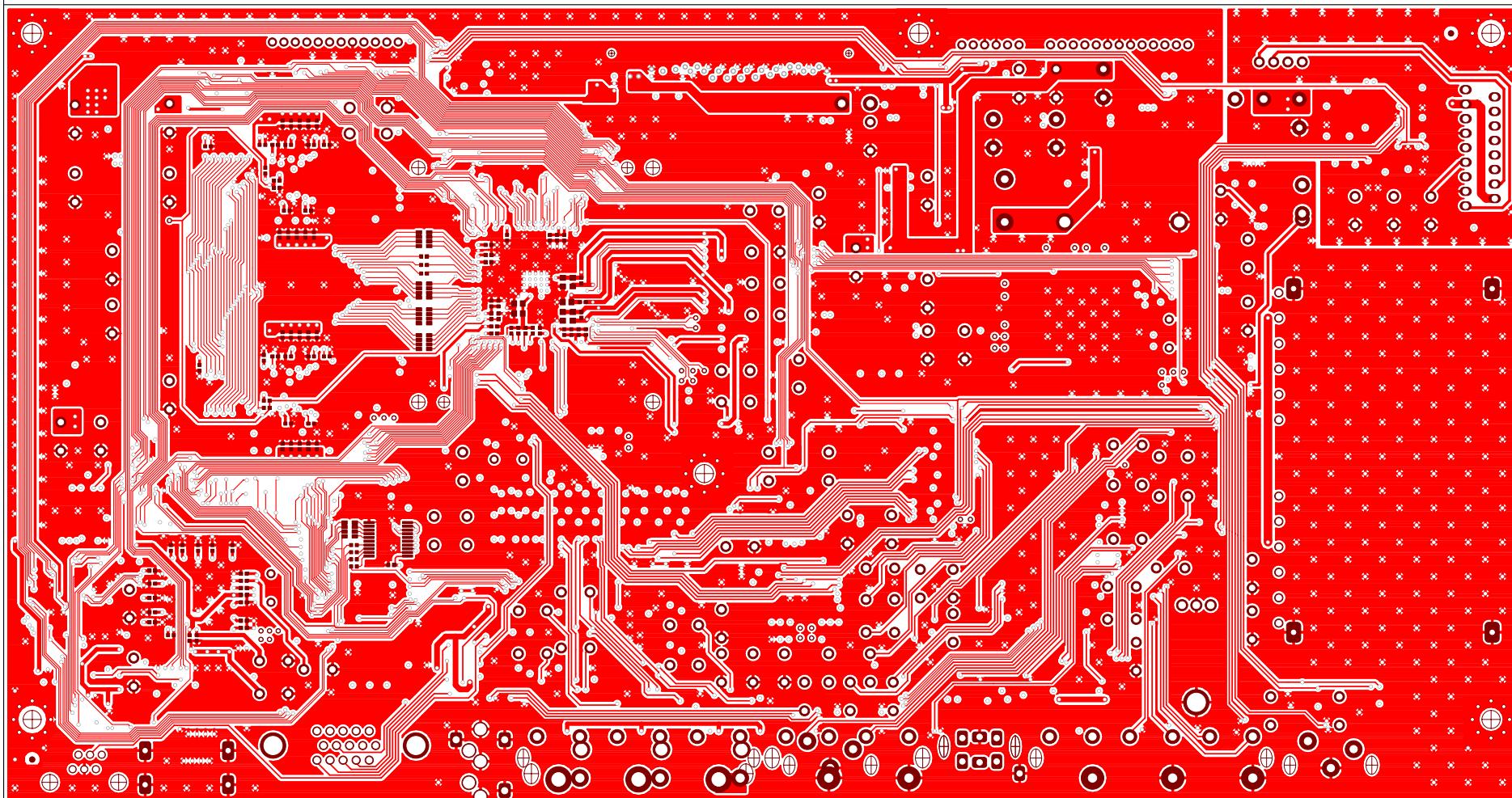
Top
GND
VCC
VCC-SCH
Bottom
Layer StackUp



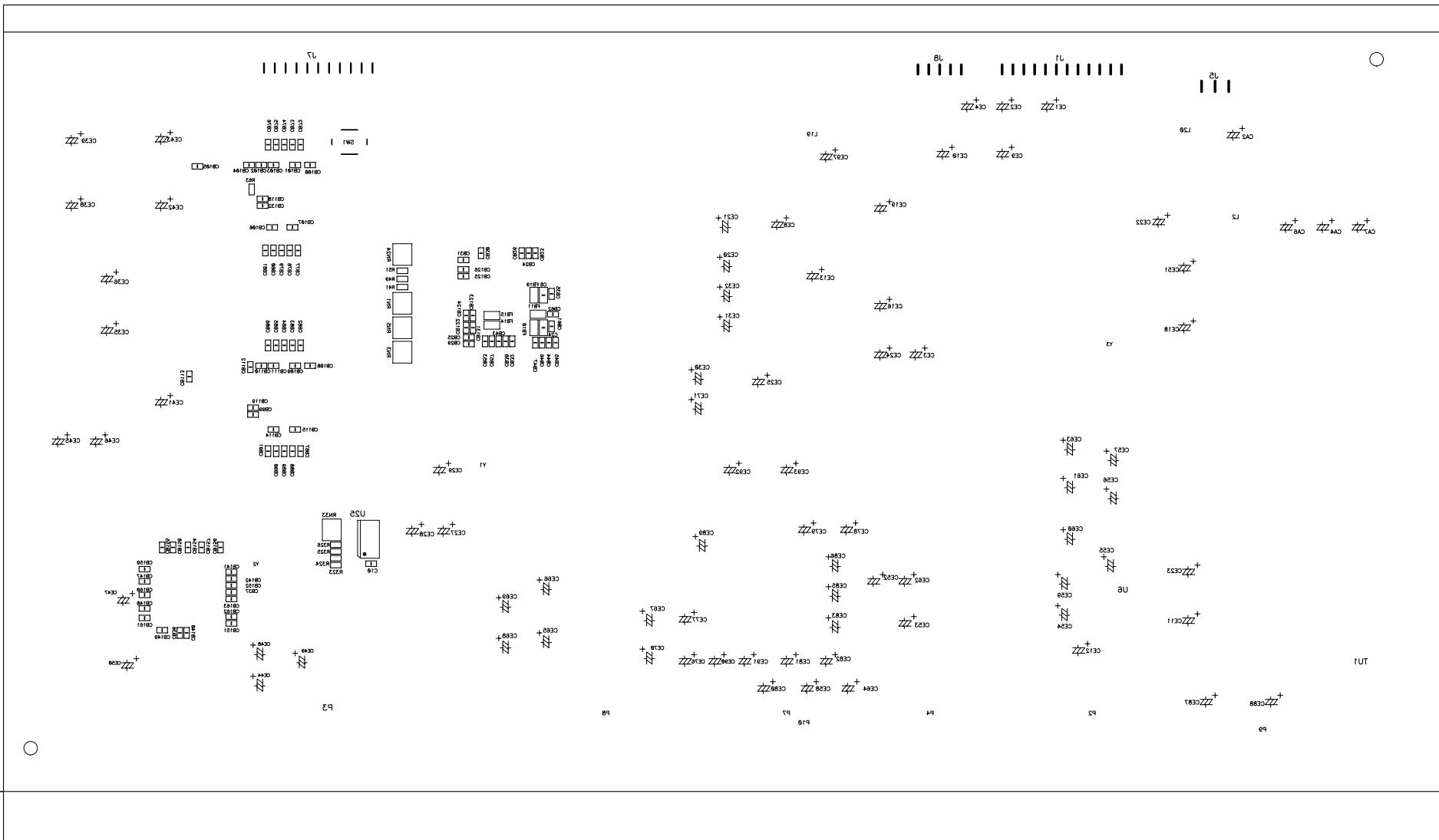
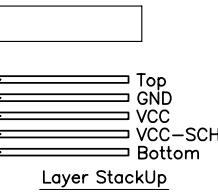
AmTRAN Co., Ltd.
0171-2242-1793
FR4 4M 1.6T
SIZE:265.0x140.0mm
PNL.:265.0x155.0mm
Q'TY: 80 PCS
Rec.: 03-29

SOLDER TRACE

Top
GND
VCC
VCC-SCH
Bottom
Layer StackUp



 AmTRAN Co., Ltd.
0171-2242-1793
FR4 4M 1.6T
SIZE:265.0x140.0mm
PNL.:265.0x155.0mm
Q'TY: 80 PCS
Rec.: 03-29



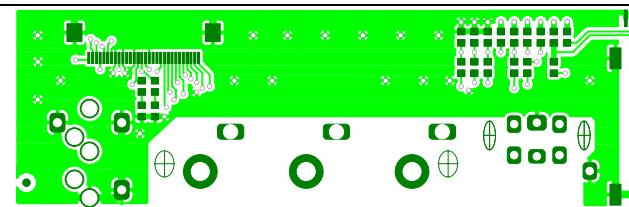
185.0 mm



AmTRAN Co.,Ltd
0171-3841-0033
VINC32-C3.PCB
FR4 1/1z 1.6t
SIZE:115.0x27.0mm
PNL.:230.0x185.0mm
Q'TY: 80 PCS (8-PNL.)
DATE: 03-29

COMP TRACE

230.0 mm



185.0 mm

AmTRAN Co.,Ltd
0171-3841-0033
VINC32-C3.PCB
FR4 1/1z 1.6t
SIZE:115.0x27.0mm
PNL.:230.0x185.0mm
Q'TY: 80 PCS (8-PNL.)
DATE: 03-29

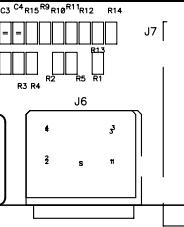
230.0 mm

185.0 mm ↑ ↓

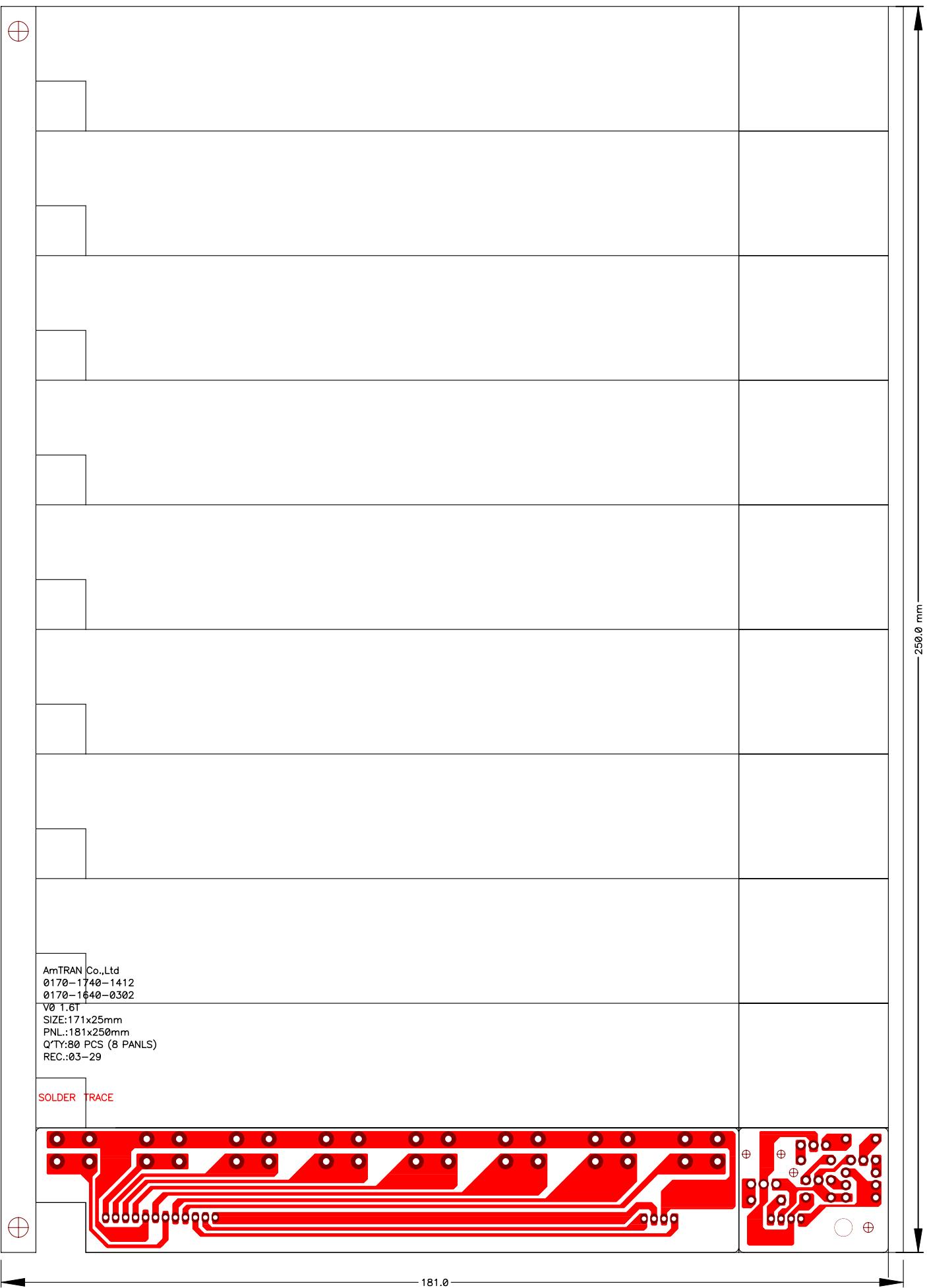
AmTRAN Co.,Ltd
0171-3841-0033
VINC32-C3.PCB
FR4 1/z 1.6t
SIZE:115.0x27.0mm
PNL.:230.0x185.0mm
Q'TY: 80 PCS (8-PNL.)
DATE: 03-29

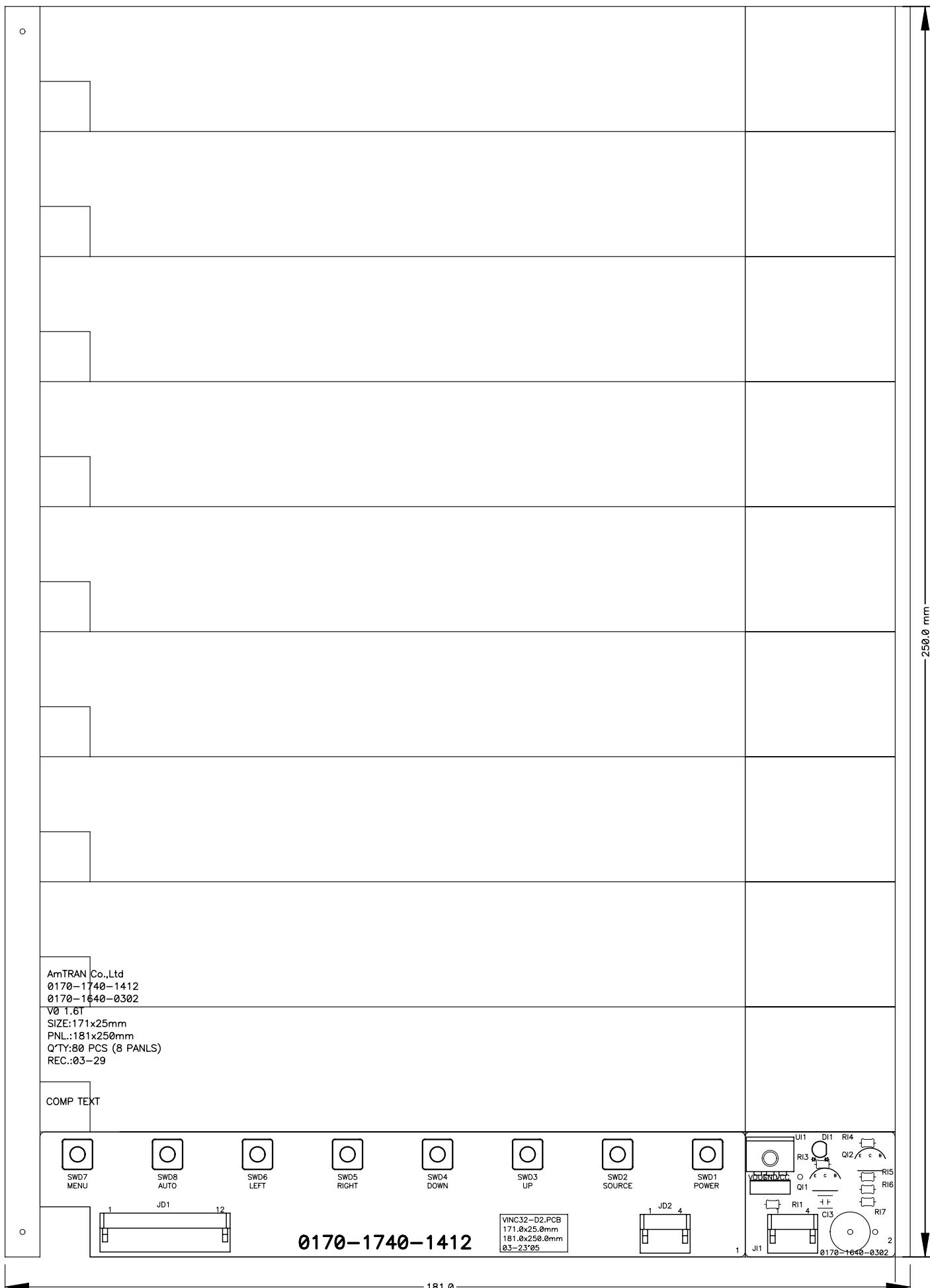
COMP TEXT

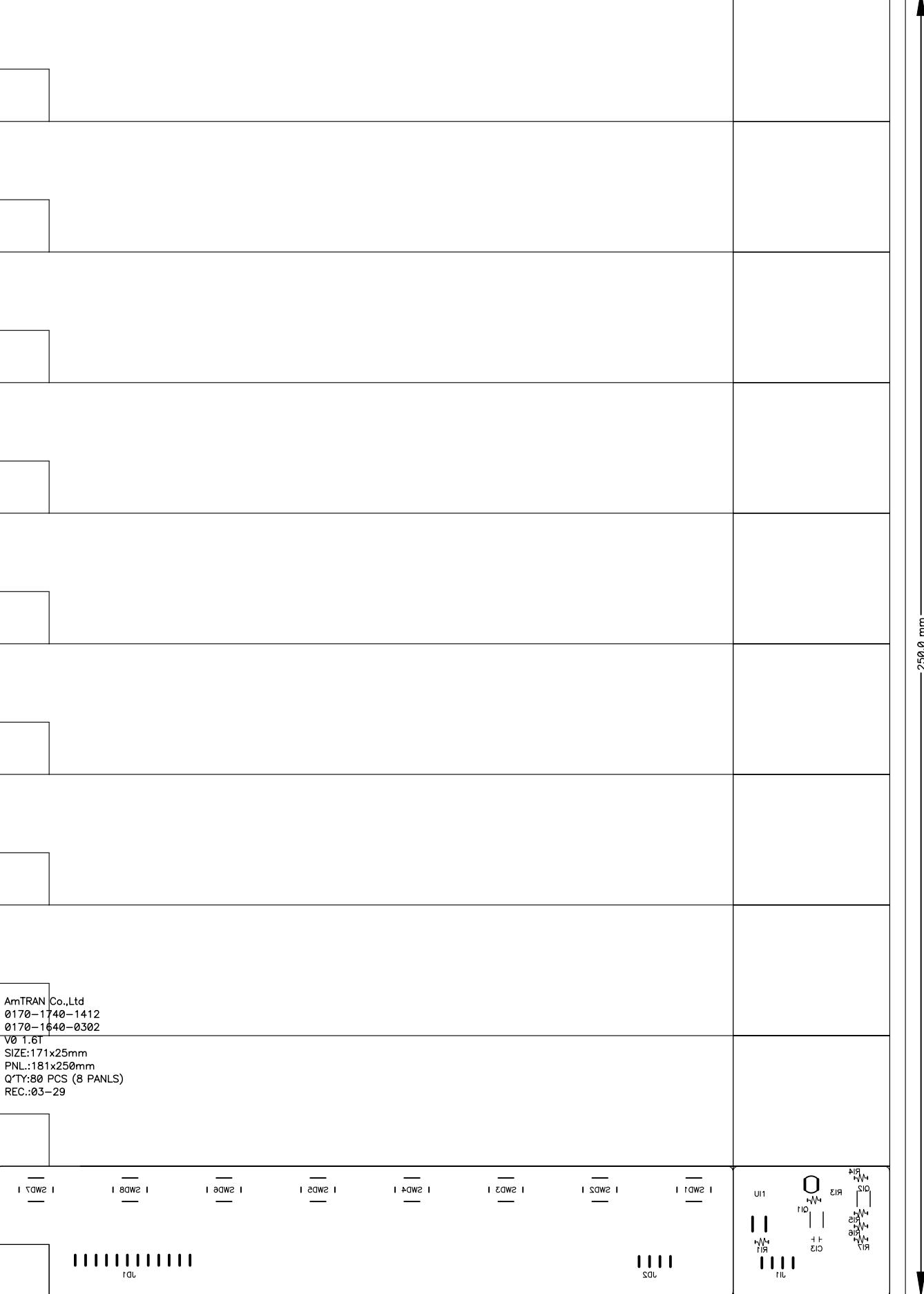
0171-3841-0033



230.0 mm





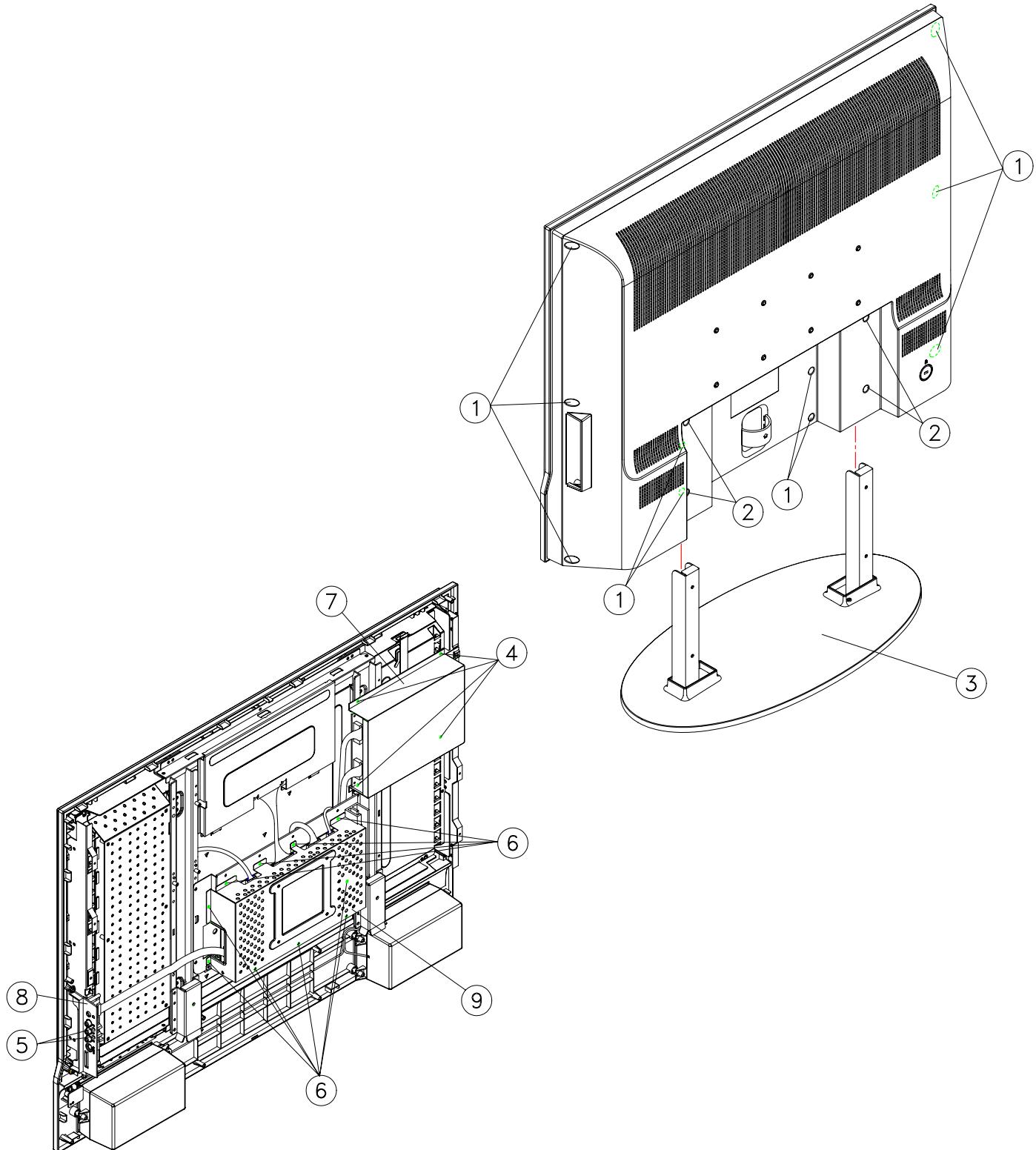


DISASSEMBLY INSTRUCTIONS

1.REAR COVER ASS'Y REMOVAL

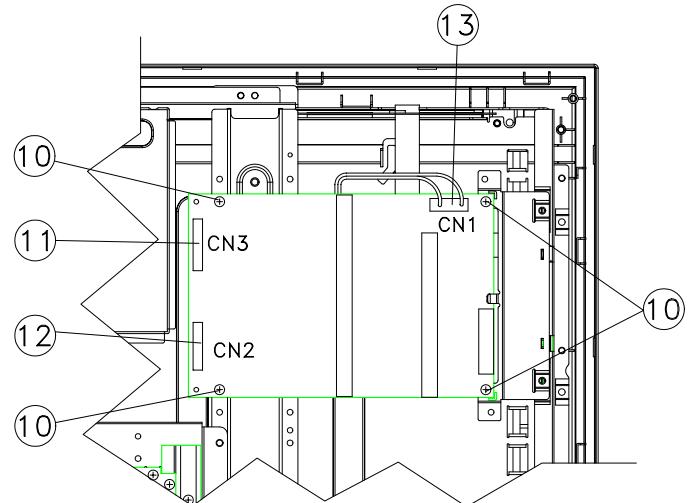
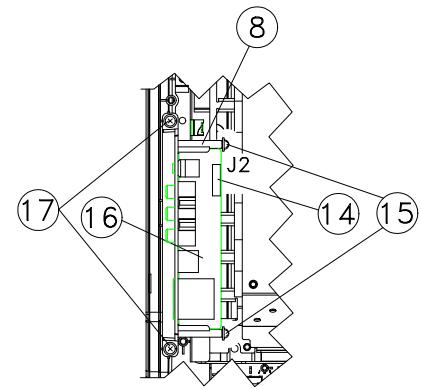
Note: Spread a mat underneath to avoid damaging the LCD surface.

- 1) Remove ten screws ① and four screws ② from rear cover.
- 2) Separate the Bass Ass'y ③ and the rear cover.
- 3) Remove four screws ④ and from Power shield ⑦ .
- 4) Separate the Power shield ⑦ .
- 5) Remove two screws ⑤ from card reader cover ⑧ .
- 6) Remove ten screws ⑥ from Main shield ⑨ .
- 7) Separate the Main shield ⑨ from chassis.



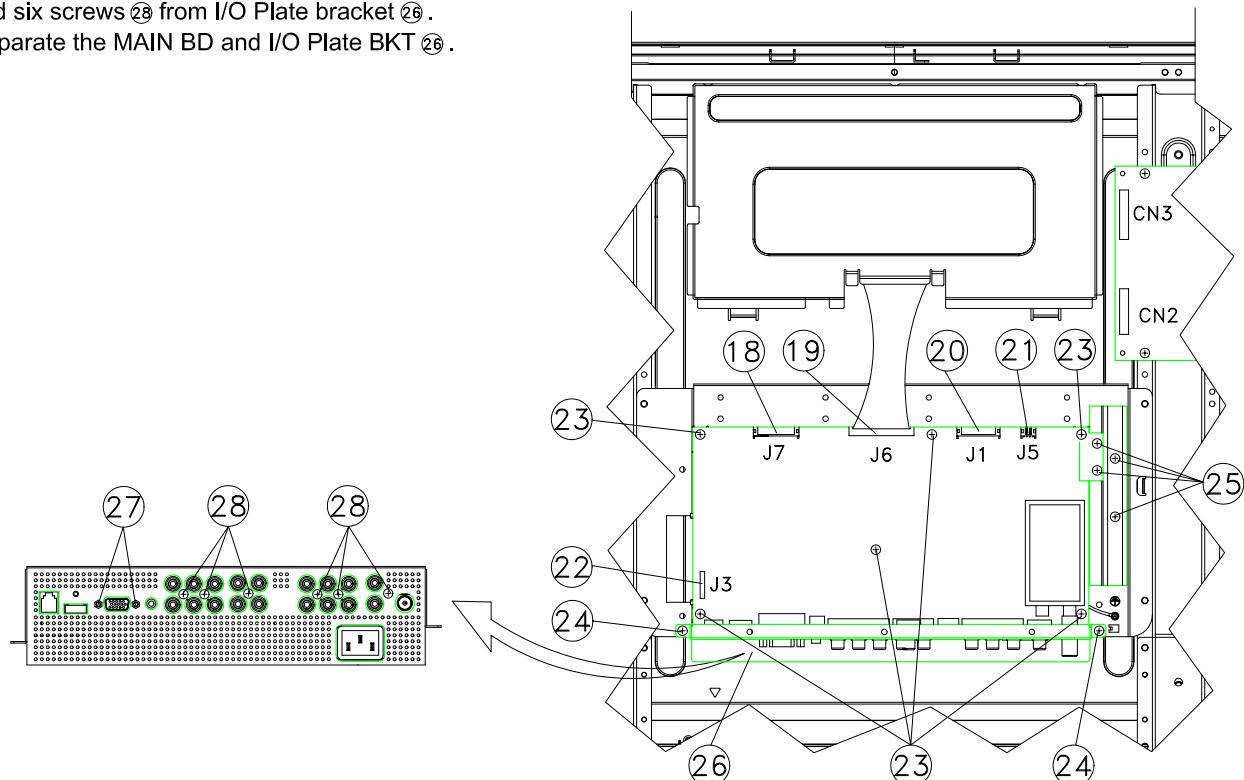
2. POWER BD ASS'Y/CONNECTOR BD ASS'Y REMOVAL

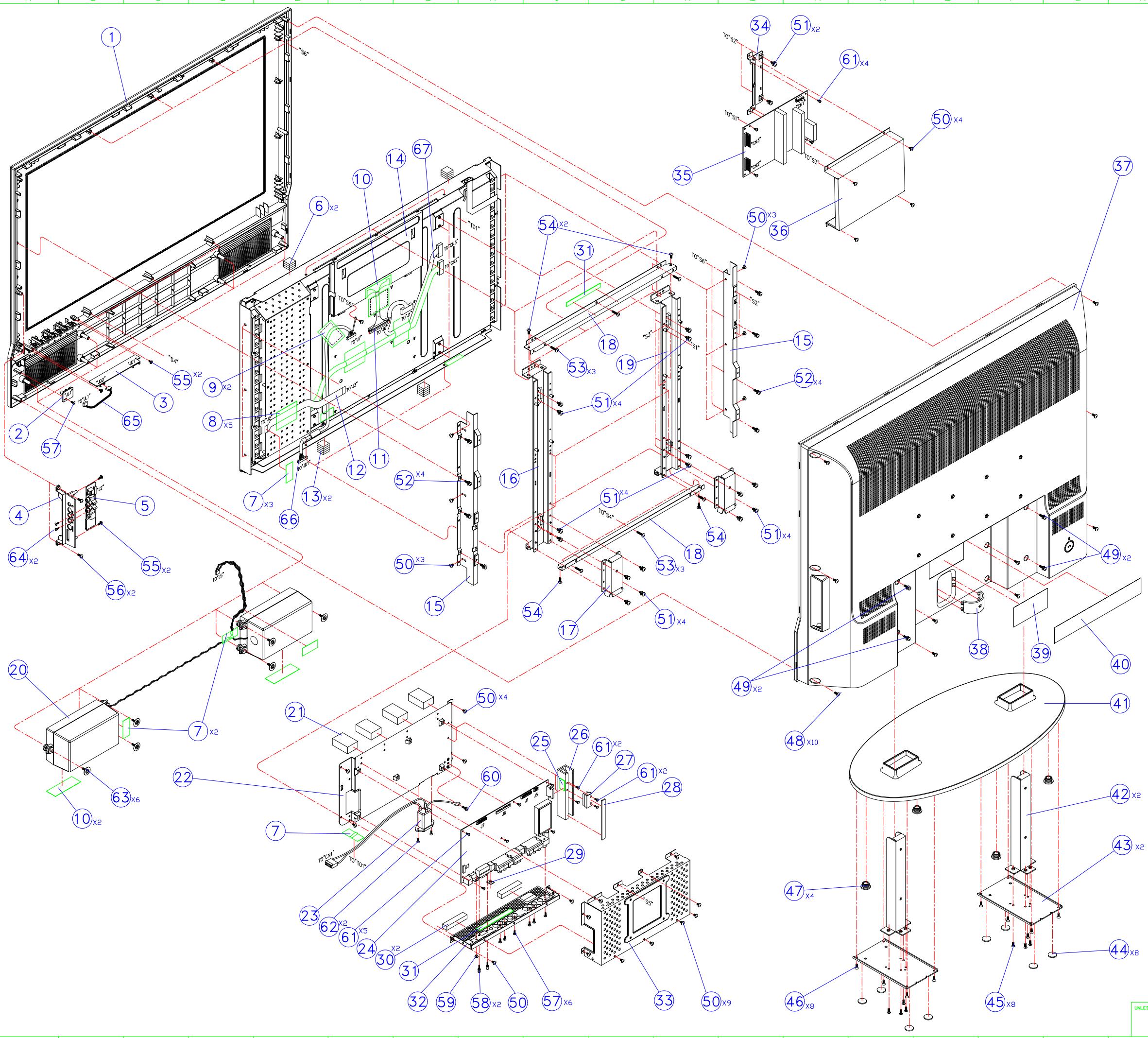
- 1) Remove the connector ⑪(CN2) of the main bd cable.
- 2) Remove the connector ⑫(CN3) of the inverter cable.
- 3) Remove the connector ⑬(CN1) of the AC Power cable.
- 4) Remove four screw ⑩ from Power BD Ass'y.
- 5) Separate the Power BD Ass'y.
- 6) Remove the connector ⑭ (J2) of the connector bd cable.
- 7) Remove two screws ⑮ ,two screws ⑯ from card reader cover ⑮ .
- 6) Separate the Connector BD Ass'y ⑯ .



3. MAIN BD ASS'Y REMOVAL

- 1) Remove the connector ⑯ (J7) of the keypad cable.
- 2) Remove the connector ⑰ (J6) of the LVDS signal cable.
- 3) Remove the connector ⑱ (J1) of the Main BD cable.
- 4) Remove the connector ⑲ (J5) of the Seapker cable.
- 5) Remove the connector ⑳ (J3) of the connector bd cable.
- 6) Remove six screws ㉑ from Mani BD Ass'y.
- 7) Remove four screws ㉒ from heat sink ㉓ .
- 8) Remove two screws ㉔ ,two hexagon screws ㉕ and six screws ㉖ from I/O Plate bracket ㉗ .
- 9) Separate the MAIN BD and I/O Plate BKT ㉘ .





ITEM	PART NO.	DESCRIPTION	QTY
1	1801-0119-3011	BEZEL (VIZIO L32) ASS'Y	1
2	3220-0012-0189	LCD IR BD ASS'Y(VIZIO L32)	1
3	3320-0012-0156	LCD DISPLAY BD ASS'Y(VIZIO L32)	1
4	1701-1923-0010	CARD READER COVER(TM-32V)	1
5	3320-0012-0146	LCD CONNECTOR BD ASS'Y(VIZIO L32)	1
6	1947-2000-1011	RUBBER PAD A(TM-32V)	2
7	1947-1200-0400	ACETATE CLOTH TAPE(20*45mm)	6
8	1947-1200-0820	ACETATE CLOTH TAPE(60*45mm)	5
9	1947-1700-0050	SHIELDING AL. TAPE(50.0*40.0)	2
10	1947-1200-0310	ACETATE CLOTH TAPE(27*75mm)	2
11	0460-3430-0650	WH PF14-30P/FI-E30N 20276#160mm	1
12	0460-2830-0090	FCC 30P(0.5mm) 250mm	1
13	1947-2000-1021	RUBBER PAD-B(TM-32V)	2
14	0211-0315-0477	LCD MODULE 31.5" TFT T315XW01(V2)(AU)	1
15	1712-0100-8690	PANEL HOLDER SIDE-R(TM-32V-AUO)	2
16	1712-0100-8071	PANEL BRACKET-R(TM-32V)	1
17	1712-0100-8100	BASE BRACKET TOP(TM-32V)	2
18	1712-0100-8680	PANEL HOLDER TOP(TM-32V_AUO)	2
19	1712-0100-8221	PANEL BRACKET-L(TM-32V)	1
20	0335-0008-0250	SPEAKER 8ohm 10W 155*86mm P302F	1
21	1947-1800-0120	GASKET BLOCK(17W*45H*30Lmm)	4
22	1712-0100-8040	CHASSIS FOR MAIN BD(TM-32V)	1
23	0260-0000-0221	AC INLET+VHR5P 1617#22 500mm1015#18 100mm+TUBE	1
24	3320-0032-0150	LCD MAIN BD ASS'Y(VIZIO L32)(AU)	1
25	1947-1900-0030	HEATPATH(25x14mm)	1
26	1712-0400-0720	HEAT SINK(PD-42S)	1
27	1712-0100-4590	HEAT SINK FIX MTEAL(TM-32A)	1
28	1947-1800-0660	GASKET BLOCK(10.0W*2.0H*100.0Lmm)	1
29	1947-1800-0490	GASKET BLOCK(12L*10W*1.5Hmm)HOLE6Ø	1
30	1947-1800-0160	GASKET BLOCK(10.0W*13.0H*60.0L)	2
31	1947-1800-0790	GASKET BLOCK(100L*10.0W*1.0Hmm)	1
32	1712-0100-8060	I/O PLATE BRACKET(TM-32V)	1
33	1712-0100-8050	SHIELDING FOR MAIN BD(TM-32V)	1
34	1712-0100-8140	POWER BRACKET(TM-32V)	1
35	0500-0502-0101	POWER BD ASS'Y 0469D03 REV A	1
36	1712-0100-8130	POWER SHIELDING(TM-32V)	1
37	1801-0211-3010	REAR COVER(TM-32V)ASS'Y	1
38	1701-0516-0010	WIRE CLIP (VIZIO C20L))	1
39	1936-1100-7650	B/C LBL Vine VIZIO L32	1
40	1701-0800-1510	REAR PLATE VIZIO L32	1
41	1701-0516-2010	BASE (TM-32V)	1
42	1712-0100-8110	BASE BRACKET BOTTOM(TM-32V)	2
43	1712-0100-8120	BASE BRACKET(TM-32V)	2
44	1701-1000-0180	BASE FOOT(#18.0*2.0,PORON)	8
45	1720-3004-0820	MAC.SCREW-MF M4.0*8.0L,Ni	8
46	1721-3004-0800	SCREW,Fate Head,T4.0*8.0l,Zn	8
47	1701-1000-0430	BASE FOOT(TM-32V)	4
48	1721-0004-1050	TAP.SCREW-TP#4.0*10.0L,BLK-Ni	10
49	1720-1504-1450	MAC.SCREW-MPSWF M4.0*14.0L,BLK-Ni	4
50	1720-0004-0520	MAC.SCREW-MB M4.0*5.0L,Ni	—
51	1720-1504-0820	MAC.SCREW-MPSWF M4.0*8.0L,Ni	18
52	1721-0504-1020	TAP.SCREW-MPSFW #TP4.0*10.0L,Ni	8
53	1721-0004-1620	TAP.SCREW-TP#4.0*16.0L,Ni	10
54	1720-0004-1020	MAC.SCREW-MB M4.0*10.0L,Ni	4
55	1721-2103-1050	TAP.SCREW-TRF #3.0*10.0L,BLK-Ni	4
56	1721-0004-0820	TAP.SCREW-TP #4.0*8.0L,Ni	2
57	1721-0003-0820	TAP.SCREW-TB #3.0*8.0L,Ni	7
58	1720-7344-0820	MAC. SCREW-MHSW #4-40*8.0LNi	2
59	1720-0003-0420	MAC.SCREW-MB M3.0*4.0L,Ni	1
60	1720-1204-0820	MAC.SCREW-MPGW M4.0*8.0L,Ni	1
61	1720-0003-0620	MAC.SCREW-MB M3.0*6.0L,Ni	14
62	1720-3003-0820	MAC.SCREW-MF M3.0*8.0L,Ni	2
63	1721-4104-1220	TAP.SCREW-TRF #4.0*12.0L,Ni	6
64	1721-3003-0850	TAP.SCREW-TF #M3.0*8.0L,BLK-Ni	2
65	0460-1004-0301	WH PH4P-PH4P 1061#26 80mm	1
66	0460-1012-0171	WH PH12P-PH12P 1061#26 450mm SHIELDING	1
67	0460-1013-0061	WH PH13P-A254313P 1007#24 480mm	1

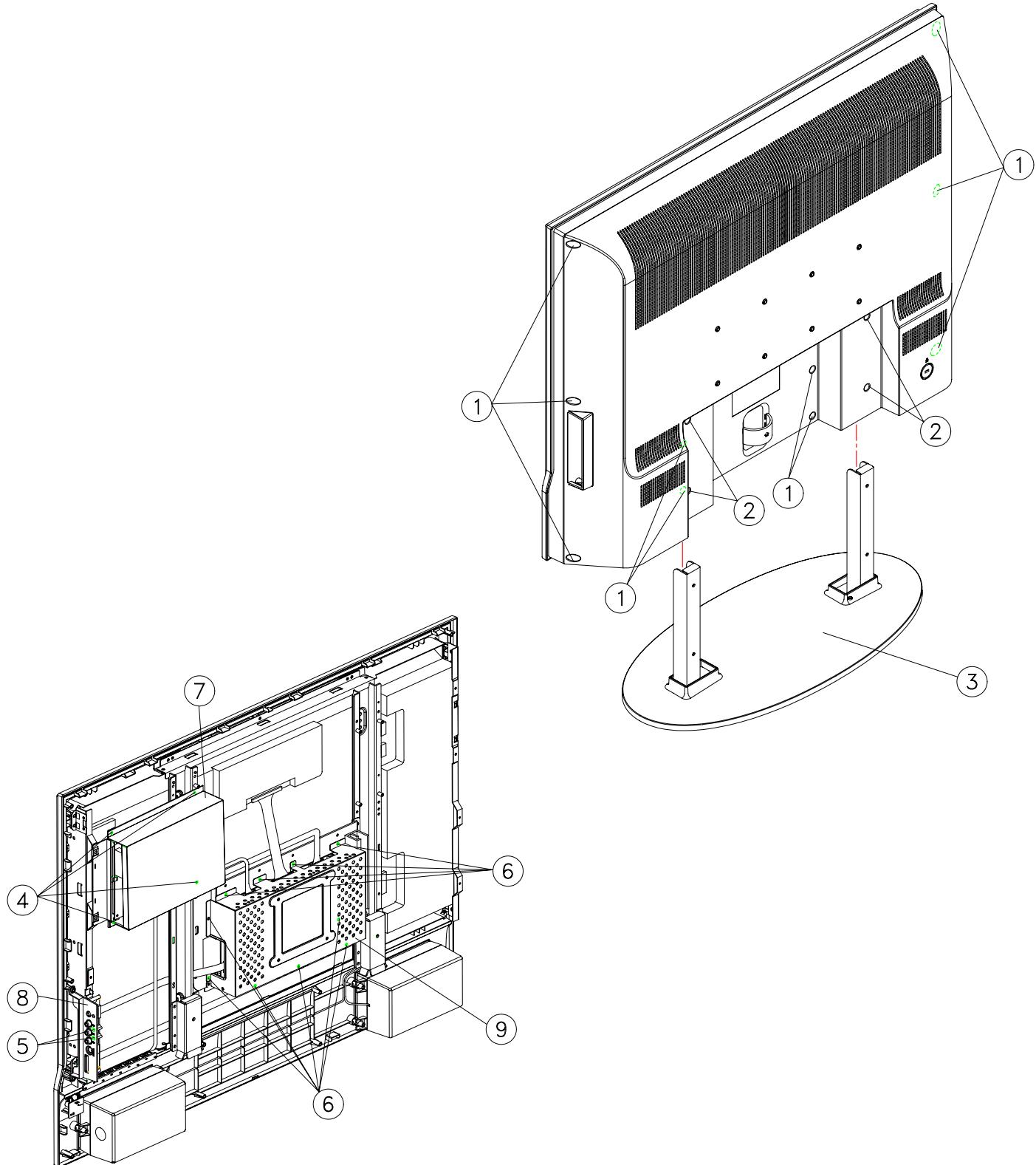
VIZIO L32(sharp)		2614-3485-0225
DESCRIPTION		PART NO.
AMTRAN TECHNOLOGY Co., LTD.	THIRD ANGLE PROJECTION	MODEL NO.
DSN: JESSIE Yu	07/04/05	DWG. NAME:
		VIZIO L32(AU)
UNLESS OTHERWISE NOTED		
XX = ±0.10		
X = ±0.2		
ANG. = ±1/2°		
CHKJ	*****	DWG. NAME:
Q'TY 1	SIZE: AI	32" CASE ASS'Y
SCALE:Full	UNIT: MM	DWG. NO.: VIZIO-L32-AU-OLD-AU
		REV: 0 SHEET: 1 of 1

DISASSEMBLY INSTRUCTIONS

1.REAR COVER ASS'Y REMOVAL

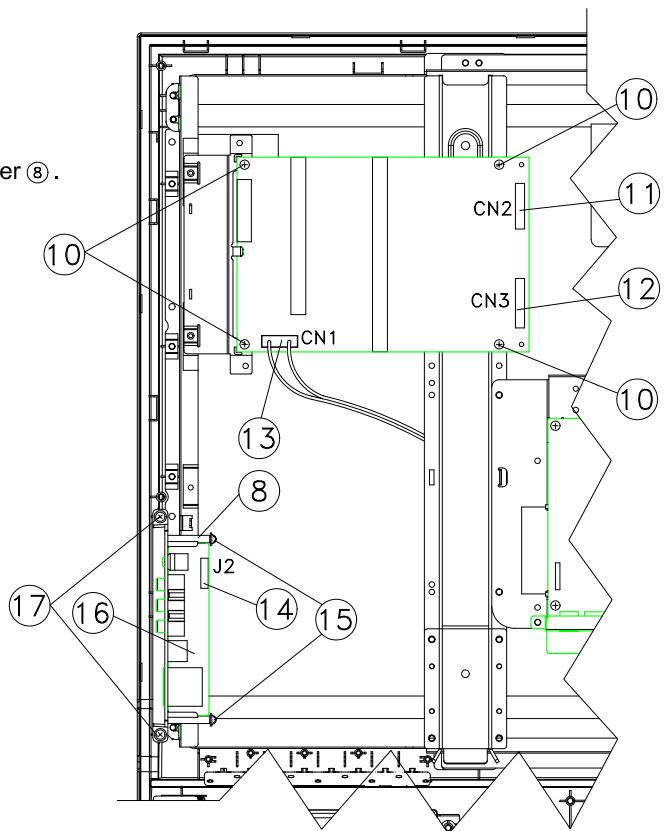
Note: Spread a mat underneath to avoid damaging the LCD surface.

- 1) Remove ten screws ① and four screws ② from rear cover.
- 2) Separate the Bass Ass'y ③ and the rear cover.
- 3) Remove four screws ④ and from Power shield ⑦ .
- 4) Separate the Power shield ⑦ .
- 5) Remove two screws ⑤ from card reader cover ⑧.
- 6) Remove ten screws ⑥ from Main shield ⑨ .
- 7) Separate the Main shield ⑨ from chassis.



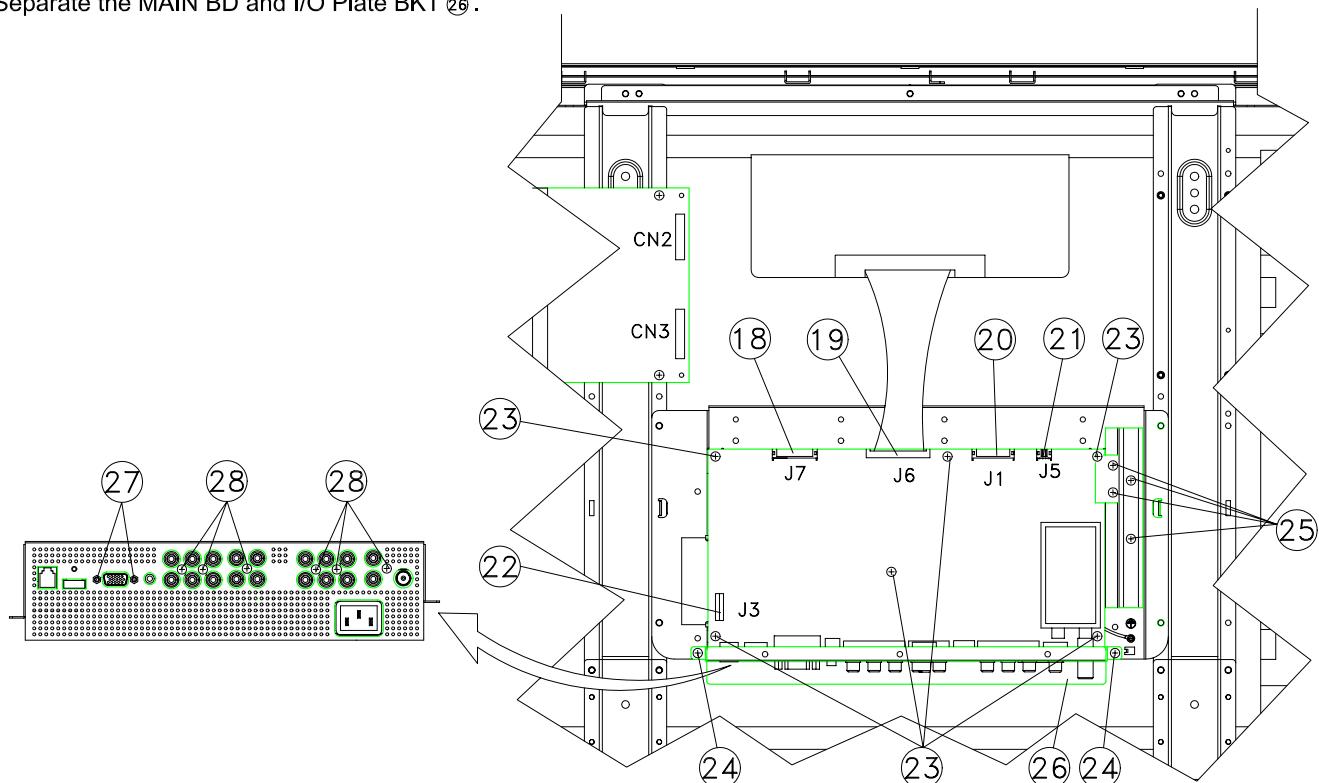
2. POWER BD ASS'Y/CONNECTOR BD ASS'Y REMOVAL

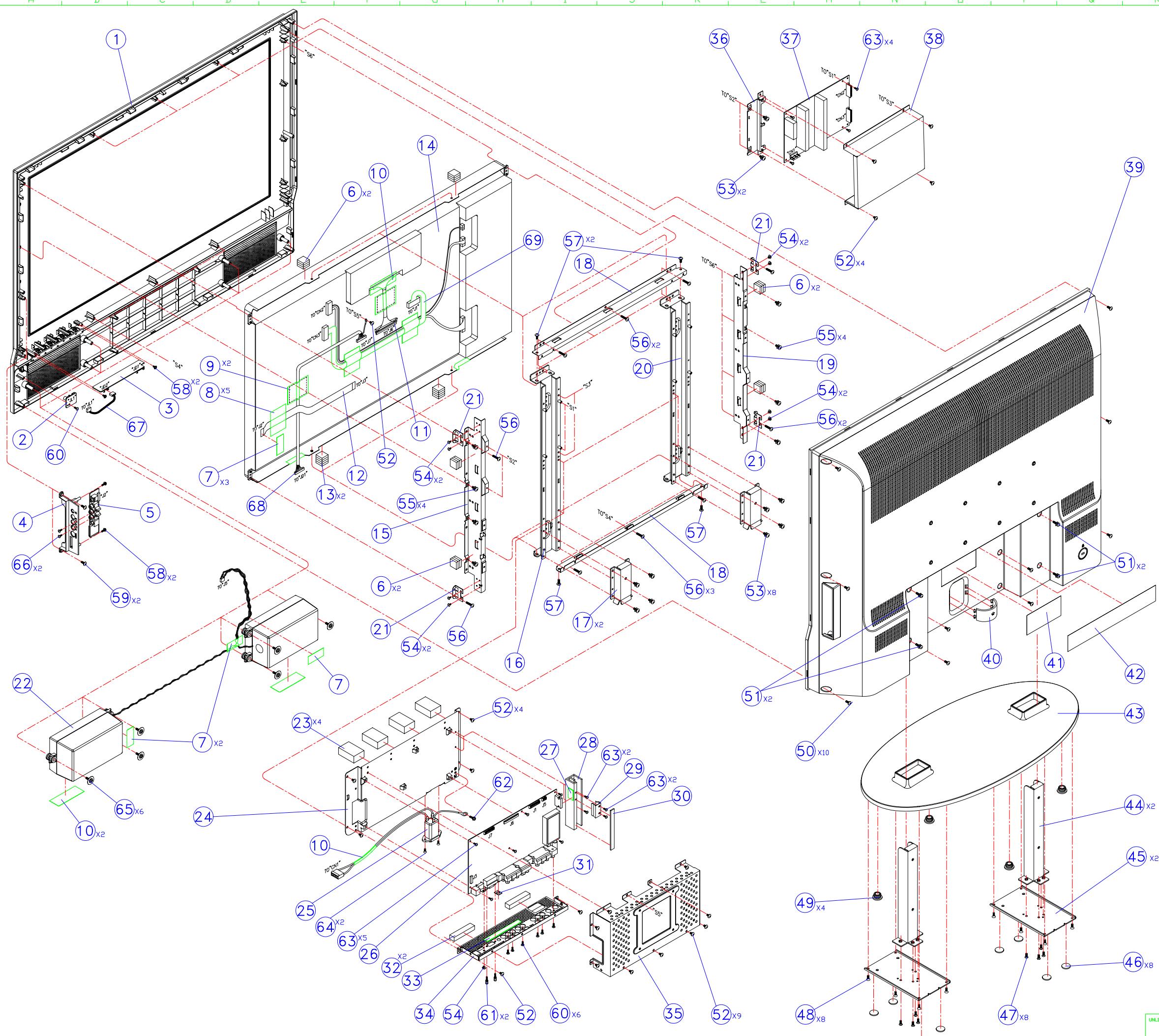
- 1) Remove the connector ⑪(CN2) of the inverter cable.
- 2) Remove the connector ⑫(CN3) of the main bd cable.
- 3) Remove the connector ⑬(CN1) of the AC Power cable.
- 4) Remove four screw ⑩ from Power BD Ass'y.
- 5) Separate the Power BD Ass'y.
- 6) Remove the connector ⑭ (J2) of the connector bd cable.
- 7) Remove two screws ⑮ ,two screws ⑯ from card reader cover ⑮ .
- 6) Separate the Connector BD Ass'y ⑯ .



3. MAIN BD ASS'Y REMOVAL

- 1) Remove the connector ⑯ (J7) of the keypad cable.
- 2) Remove the connector ⑰ (J6) of the LVDS signal cable.
- 3) Remove the connector ⑱ (J1) of the Main BD cable.
- 4) Remove the connector ⑲ (J5) of the Seapker cable.
- 5) Remove the connector ⑳ (J3) of the connector bd cable.
- 6) Remove six screws ㉑ from Mani BD Ass'y.
- 7) Remove four screws ㉒ from heat sink ㉓ .
- 8) Remove two screws ㉔ ,two hexagon screws ㉕ and six screws ㉖ from I/O Plate bracket ㉗ .
- 9) Separate the MAIN BD and I/O Plate BKT ㉘ .





ITEM	PART NO.	DESCRIPTION	QTY
1	1801-0119-3011	BEZEL (VIZIO L32) ASS'Y	1
2	3220-0012-0189	LCD IR BD ASS'Y(VIZIO L32)	1
3	3320-0012-0156	LCD DISPLAY BD ASS'Y(VIZIO L32)	1
4	1701-1923-0010	CARD READER COVER(TM-32V)	1
5	3320-0012-0146	LCD CONNECTOR BD ASS'Y(VIZIO L32)	1
6	1947-2000-1011	RUBBER PAD A(TM-32V)	6
7	1947-1200-0400	ACETATE CLOTH TAPE(20*45mm)	6
8	1947-1200-0820	ACETATE CLOTH TAPE(60*45mm)	5
9	1947-1700-0050	SHIELDING AL. TAPE(50.0*40.0)	2
10	1947-1200-0310	ACETATE CLOTH TAPE(27*75mm)	3
11	0460-3430-0660	WH P240430/FI-X30H 20276#30 165mm	1
12	0460-2830-0090	FCC 30P(0.5mm) 250mm	1
13	1947-2000-1021	RUBBER PAD-B(TM-32V)	2
14	0211-0315-0363	LCD MODULE 31.5" TFT LQ315T3LZ2x(Amtran+sharp)	1
15	1712-0100-8450	PANEL HOLDER SIDE-R(TM-32V)	1
16	1712-0100-8071	PANEL BRACKET-R(TM-32V)	1
17	1712-0100-8100	BASE BRACKET TOP(TM-32V)	2
18	1712-0100-8080	PANEL HOLDER TOP(TM-32V_SHARP)	2
19	1712-0100-8090	PANEL HOLDER SIDE-L(TM-32V_SHARP)	1
20	1712-0100-8221	PANEL BRACKET-L(TM-32V)	1
21	1712-0100-8440	PANEL BRACKET(TM-32V)	4
22	0335-0008-0250	SPEAKER 8ohm 10W 155*86mm P302F	1
23	1947-1800-0120	GASKET BLOCK(17W*45H*30Lmm)	4
24	1712-0100-8040	CHASSIS FOR MAIN BD(TM-32V)	1
25	0260-0000-0221	AC INLET+VRH5P 1617#22 500mm1015#18 100mm+TUBE	1
26	3320-0012-0150	LCD MAIN BD ASS'Y(VIZIO L32)	1
27	1947-1900-0030	HEATPATH(25x14mm)	1
28	1712-0400-0720	HEAT SINK(PD-42S)	1
29	1712-0100-4590	HEAT SINK FIX MTEAL(TM-32A)	1
30	1947-1800-0660	GASKET BLOCK(10.0W*2.0H*100.0Lmm)	1
31	1947-1800-0490	GASKET BLOCK(12L*10W*1.5Hmm)HOLE6#	1
32	1947-1800-0160	GASKET BLOCK(10.0W*13.0H*60.0L)	2
33	1947-1800-0790	GASKET BLOCK(100L*10.0W*1.0Hmm)	1
34	1712-0100-8060	I/O PLATE BRACKET(TM-32V)	1
35	1712-0100-8050	SHIELDING FOR MAIN BD(TM-32V)	1
36	1712-0100-8140	POWER BRACKET(TM-32V)	1
37	0500-0502-0101	POWER BD ASS'Y 0469D03 REV A	1
38	1712-0100-8130	POWER SHIELDING(TM-32V)	1
39	1801-0211-3010	REAR COVER(TM-32V)ASS'Y	1
40	1701-0516-0010	WIRE CLIP (VIZIO C20L))	1
41	1936-1100-7650	B/C LBL Vinc VIZIO L32	1
42	1701-0800-1510	REAR PLATE VIZIO L32	1
43	1701-0516-2010	BASE (TM-32V)	1
44	1712-0100-8110	BASE BRACKET BOTTOM(TM-32V)	2
45	1712-0100-8120	BASE BRACKET(TM-32V)	2
46	1712-1000-0180	BASE FOOT(#18.0*2.0,PORON)	8
47	1720-3004-0820	MAC.SCREW-MF M4.0*8.0L,Ni	8
48	1721-3004-0800	SCREW,Fate Head,T4.0*8.0L,Zn	8
49	1701-1000-0430	BASE FOOT(TM-32V)	4
50	1721-0004-1050	TAP.SCREW-TP#4.0*10.0L,BLK-Ni	10
51	1720-1504-1450	MAC.SCREW-MPSWF M4.0*14.0L,BLK-Ni	4
52	1720-0004-0520	MAC.SCREW-MB M4.0*5.0L,Ni	20
53	1720-1504-0820	MAC.SCREW-MPSWF M4.0*8.0L,Ni	10
54	1720-0003-0420	MAC.SCREW-MB M3.0*4.0L,Ni	9
55	1721-0504-1020	TAP.SCREW-MBSFW #TP4.0*10.0L,Ni	8
56	1721-0004-1620	TAP.SCREW-TP#4.0*16.0L,Ni	10
57	1720-0004-1020	MAC.SCREW-MB M4.0*10.0L,Ni	4
58	1721-2103-1050	TAP.SCREW-TRF #3.0*10.0L,BLK-Ni	4
59	1721-0004-0820	TAP.SCREW-TP #4.0*8.0L,Ni	2
60	1721-0003-0820	TAP.SCREW-TB #3.0*8.0L,Ni	7
61	1720-7344-0820	MAC. SCREW-MHSW #4-40*8.0LNi	2
62	1720-1204-0820	MAC.SCREW-MPGW M4.0*8.0L,Ni	1
63	1720-0003-0620	MAC.SCREW-MB M3.0*6.0L,Ni	14
64	1720-3003-0820	MAC.SCREW-MF M3.0*8.0L,Ni	2
65	1721-4104-1220	TAP.SCREW-TRF #4.0*12.0L,Ni	6
66	1721-3003-0850	TAP.SCREW-TF #M3.0*8.0L,BLK-Ni	2
67	0460-1004-0301	WH PH4P-PH4P 1061#26 80mm	1
68	0460-1012-0171	WH PH12P-PH12P 1061#26 450mm SHIELDING	1
69	0460-1013-0061	WH PH13P-A254313P 1007#24 480mm	1

VIZIO L32(sharp)		2609-3485-0225
DESCRIPTION		PART NO.
AMTRAN TECHNOLOGY Co., LTD.	THIRD ANGLE PROJECTION	HODEL NO.
JESSIE Yu	06/27/05	VIZIO L32(sharp)
UNLESS OTHERWISE NOTED	*****	DWG. NAME:
XX = ±0.10		32" CASE ASS'Y
X = ±0.2		REV. 0
ANG. = 1/2"		SHEET 1 of 1
DSN: CHU	MATERIAL: Full	DWG. No.: VIZIO-L32-CASE
Q'TY: 1	SIZE: A1	SCALE: Full
UNIT: MM	DWG. No.: 0460-1013-0061	32" CASE ASS'Y