

Service Manual

**ViewSonic VG150m-1
VG150mb-1**

**Model No. VLCDS23587-3W
VLCDS23587-4W**

15" Color TFT LCD Display



(VG150m-1_SM_547-R ev.1 a -Dec 2 0 02)

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Revision History

Revision	Date	Description	Approval
1a	12/17/02	Initial Release DCN-2256	C.Shen

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1. Precautions and Notices

Prior to using this manual, please ensure that you have carefully followed all the procedures outlined in the user manual for this product.

Read all of these instructions.

Save these instructions for later use.

Follow all warnings and instructions marked on the product.

Do not use this product near water.

This display should be installed on a solid horizontal base.

When cleaning, use only a neutral detergent cleaner with a soft damp cloth. Do not spray with liquid or aerosol cleaners.

Do not expose this display to direct sunlight or heat. Hot air may cause damage to the cabinet and other parts.

Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the display from overheating. Do not block ventilation slots and openings with objects or install the display in a place where ventilation may be hindered.

Do not install this display near a motor or transformer where strong magnetism is generated. Images on the display will become distorted and the color irregular.

Do not allow metal pieces or objects of any kind fall into the display from ventilation holes.

Slots and openings in the cabinet and the back or bottom are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating, those openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.

FCC Statement

This equipment has been tested and found to comply with the limits of 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 and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. 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 following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between equipment and receiver.
- Connect into an outlet on circuit different from that to which the receiver is connected.
- Consult the dealer or an experience radio/TV technician for help.

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, unauthorized changes or modifications to ViewSonic products will void the user's authority to operate this device. Thus ViewSonic will not be held responsible for the product and its safety.

CE Certification



This device complies with the requirements of the ECC directive 89/3366/EEC with regard to "Electromagnetic compatibility."

Safety Guidelines

Caution: Use a power cable properly grounded. Always use the AC Mains cords listed below for each area :

- USA (UL)
- Canada (CSA)
- Germany (VDE)
- Switzerland (SEV)
- Britain (BASE/BS)
- Japan (Electric Appliance Control Act)

In other areas, use AC cord which meets the local safety standards.

2. Specification

2-1 General Specification

Characteristic	Description
LCD Panel	Mitsubishi 15.0" AA150XC01, 0.297mm (H/V), Anti-glare
Maximum Viewing Angles	Horizontal: 150 degrees @ CR ≥ 10 Vertical: 110 degrees @ CR ≥ 10
Signal Input	Video : RGB analog Sync : H.V. Separate Sync, H.V. Composite Sync (TTL Compatible), Sync. On Green Horizontal : 30 to 62KHz Vertical : 50 to 75Hz
Connector	Analog: 15 Pin Mini D-Sub
Maximum Resolution	1024x768
Video Bandwidth	85 MHz nominal
Display Area	304.1 mm (H) x 228.1 mm (V)
Power Voltage	87~264VAC @ 47~63 Hz
Power Consumption	40W max. (Adaptor plus monitor)
Operating Conditions	Temperature : 32°F to 104°F (0°C to 40°C) Humidity : 10% to 90% (no condensation) Altitude : 0 to +3,000 meters
Storage Conditions	Temperature : -4°F to +140°F (-20°C to +60°C) Humidity : 10% to 90% (no condensation) Altitude : 0 to +12,000 meters
Mechanical Dimensions	Width: 359.0mm / 14.13" Height: 325.0mm / 12.8" Depth: 190.5mm / 7.5" Depth side view panel w/o base: 49.0mm / 1.92" Monitor Weight: 3.3Kg / 7.3 lbs
Package Dimensions	Width: 480.0mm / 18.9" Height: 425.0mm / 16.7" Depth: 110.0mm / 4.3" Gross: 5.1Kg (11.2 lbs)

2-2 Factory Preset Timing

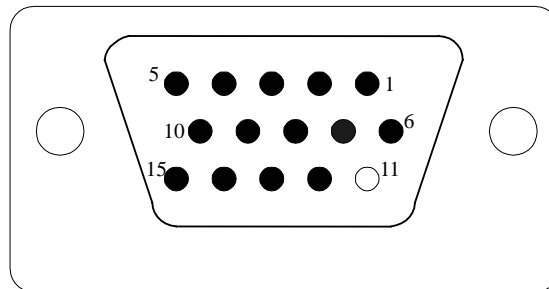
This timing chart is already preset for the TFT LCD monitors.

Timing	Horizontal Polarity	Horizontal Frequency	Vertical Polarity	Vertical Frequency
VGA 640x350	+	31.47 kHz	-	70.09 Hz
VGA 720x400	-	31.46	+	70.08
VGA 640x400	-	31.46	+	70.08
VGA 640x480	-	31.47	-	60.05
VESA 640x480	-	37.86	-	72.81
VESA 640x480	-	37.50	-	75.00
MAC 640x480	Composite	35.00	/	66.66
VESA 800x600	+	35.15	+	56.25
VESA 800x600	+	37.87	+	60.31
VESA 800x600	+	48.07	+	72.18
VESA 800x600	+	46.87	+	75.00
MAC 832x624	SOG	37.86	/	72.80
VESA 1024x768	-	48.36	-	60.00
VESA 1024x768	-	56.47	-	70.06
VESA 1024x768	-	58.03	-	71.91
VESA 1024x768	+	60.02	+	75.02
MAC 1024x768	Composite	60.24	/	74.92

2-3 D-Sub connector Pin Assignment

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

Pin Number	Pin Description
1	Red video input
2	Green video input
3	Blue video input
4	Ground
5	Ground
6	R video ground
7	G video ground
8	B video ground
9	+5V
10	Ground
11	No Connection
12	(SDA)
13	Horizontal sync (Composite sync)
14	Vertical sync
15	(SCL)

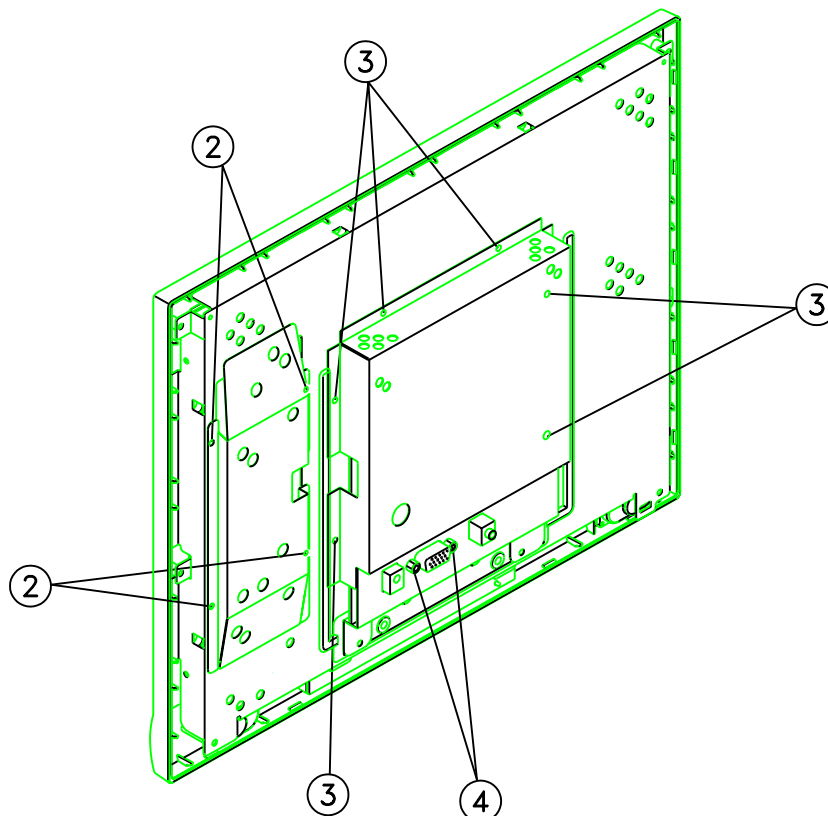
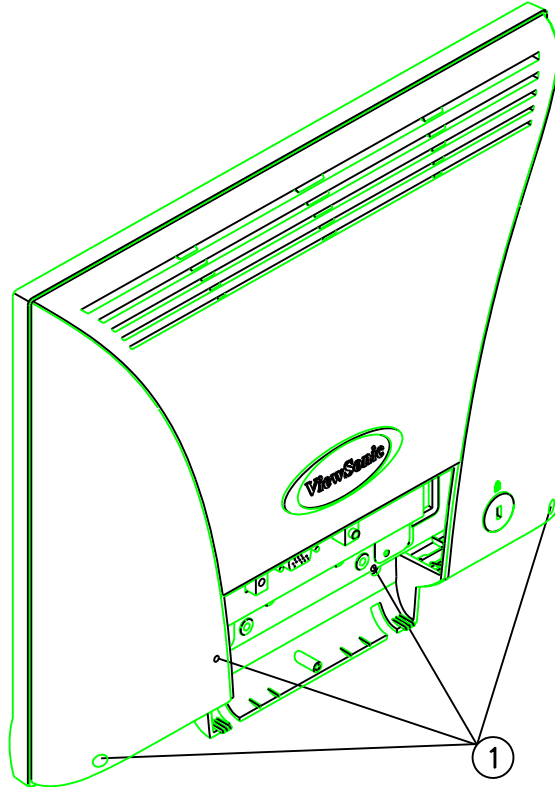


3. Disassembly / Assembly Instructions

1. REAR COVER ASS'Y REMOVAL

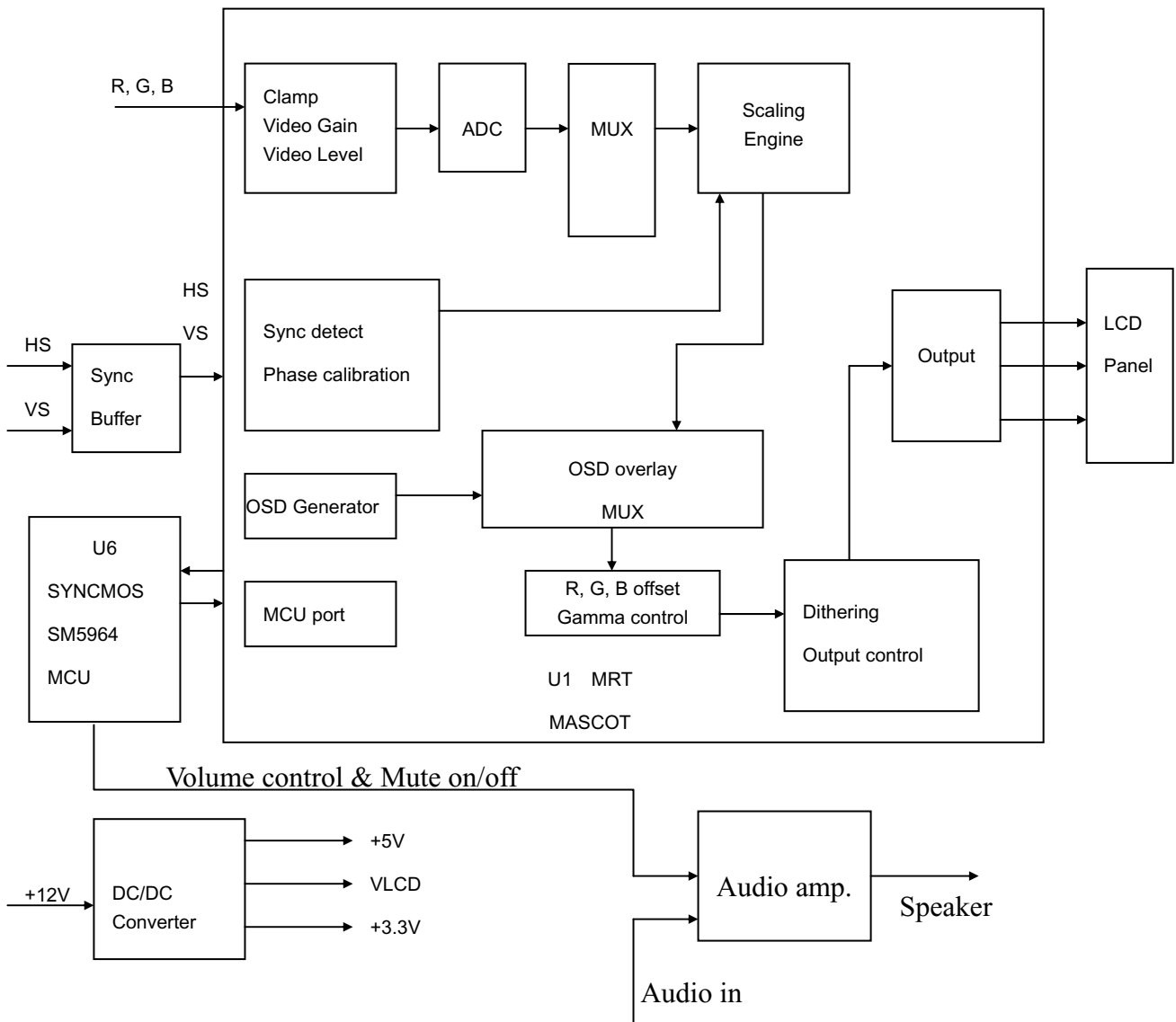
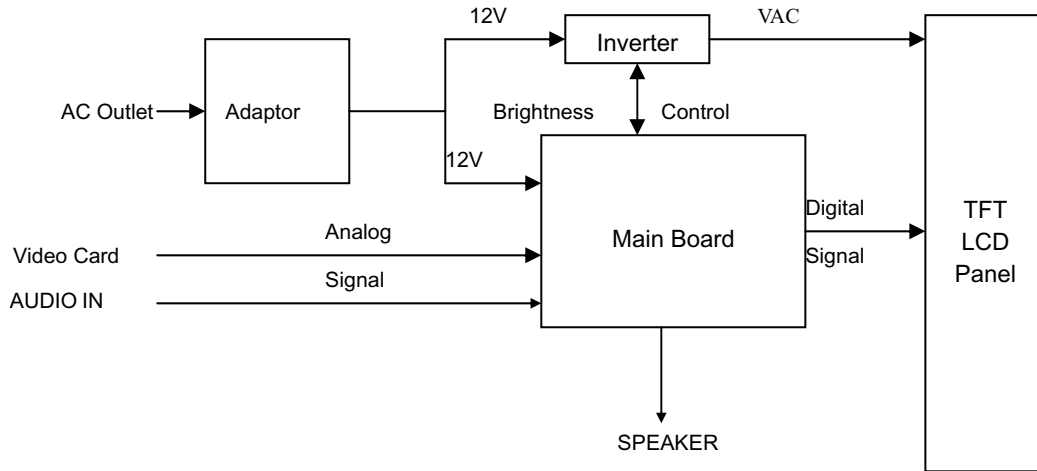
Note: Spread a mat underneath to avoid damaging the LCD surface.

- 1) Remove four screws ① from rear cover.
- 2) Separate the rear cover.
- 3) Remove four screws ② from inverter shield.
- 4) Separate the inverter shield.
- 5) Remove six small screws ③ and two large screws ④ from shield.
- 6) Separate the shield from chassis.



4. Electronic Circuit Description

4-1 Block Diagram



4-2 Main Board I/O Connections

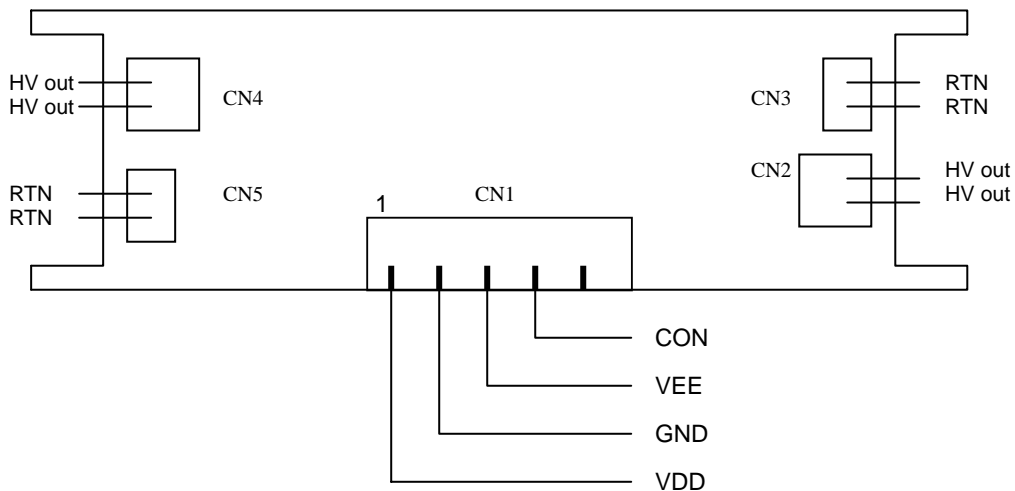
P3 CONNECTION "INVERTER CONTROL"

Pin	Description
1	N.C
2	CON
3	VEE
4	GND
5	VDD

P5 CONNECTION "OSD CONTROL"

Pin	Description
1	POW 1
2	GND
3	LED1
4	LED2
5	KEY1
6	KEY2
7	KEY3
8	KEY4
9	+
10	-
11	MUTE

4-3 Inverter Board I/O Connections



NOTE: MANUFACTURER'S NAME MUST BE ON THE PRINTED SIDE FOR THE INVERTER BOARD TO BE FACING UP.

4-4 Theory of Circuit Operation

VG150m/mb is a multi-frequency and multi-mode color TFT LCD monitor. It supports different resolutions including XGA, SVGA, VGA and other various high resolution up to 1024x768 for IBM, PC compatibles, Power PC and Macintosh. VG150m uses a TFT LCD panel with a 0.297mm pixel pitch, provides 16.7 millions color images.

As the previous block diagram illustrates, VG150m uses a highly integrated solution (U1: Mascot V) that combines a high performance ADC with an advanced image process controller. Using advanced image scaling algorithms, Mascot V has intelligently adaptive sub-algorithms that will automatically optimize the display quality for different images – the text is sharper and the graphics is smoother.

Furthermore, each TFT LCD monitor uses the 24LC02 (U14) chip to provide DDC1/2B™ with Analog Plug&Play, the DDC data format is EDID v1.3.

Digital process and control system allows users to control OSD menu values to change monitor settings. The follow sections are major part discussions of the TFT LCD display control board.

POWER SYSTEM

This product uses an external power adapter to provide DC+12V. It is the source of other voltages +5VX, 3.3VX, and VLCD.

The voltage of +5VX is produced by regulator LM2596-5V (U5) and external components that can realize DC to DC conversion from +12V to +5V. For some chips (MPU, ADC) that are sensitive to any voltage variance, we need LDO 1084-3.3V (U11) to produce a stable voltage 3.3VX.

There is still an important consideration about power consumption. We must greatly reduce the power consumption even up to 90% in power saving mode. So we need to switch off the power that needn't exist when the system enters to this mode. We use the P-channel MOSFET IRLML6402 (Q1) to control the on/off state of the panel's power VLCD.

See FIG1-1.

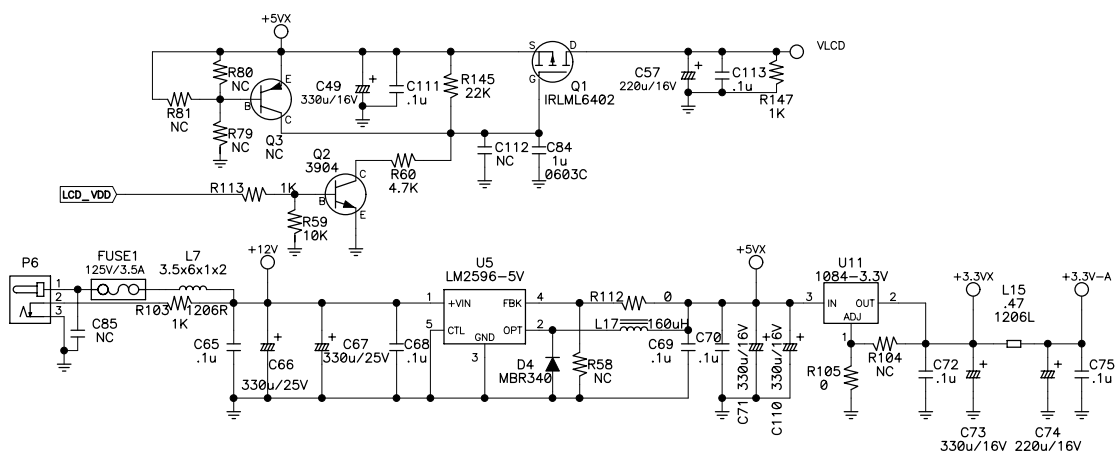


FIG1-1

ANALOG SIGNAL INPUT and EDID

This product uses the internal function of Mascot V (U1) as a signal detector in order to support separate SYNC. The analog input Horizontal and Vertical Synchronal signals pass through the Schmitt trigger buffer U4 to stabilize then input to Mascot U1 pin38 VGA_VSYNC, pin39 VGA_HSYNC or pin40 SOGI and the image processing. Then Mascot will detect the signal type if it is separate SYNC, composite SYNC or SOG. MPU (U6) reads the input signal type from IIC protocol and does the correct procedure to generate the proper signals to the whole system.

24LC02 (U14) chip provide DDC1/2B™ with Analog Plug&Play, and the DDC data format is EDID v1.3. See FIG1-2.

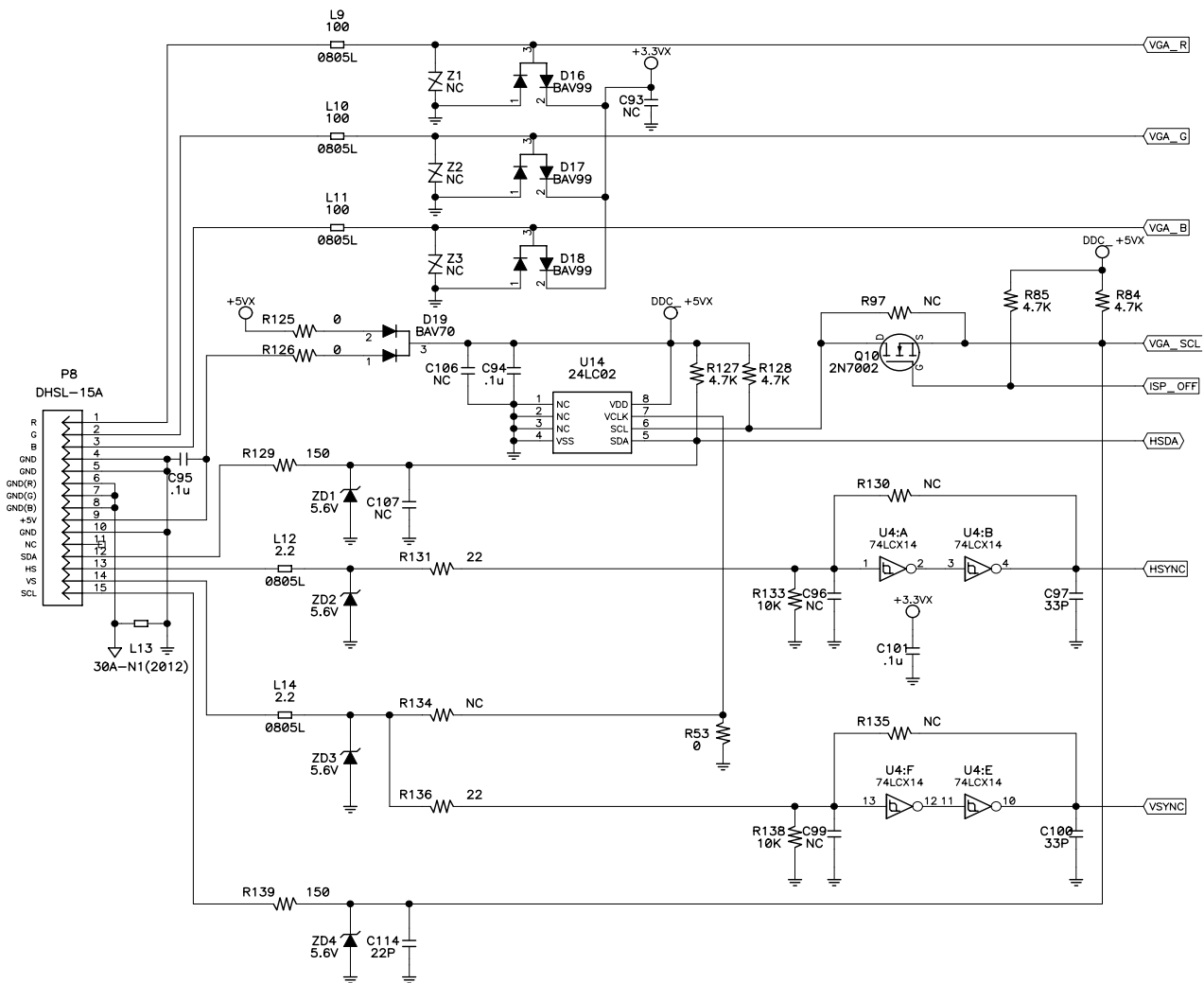


FIG1-2

ANALOG to DIGITAL CONVERSION and PROCESSING

General Description of Mascot

Mascot V is a highly integrated solution (U1) that combines a high performance ADC with an advanced image process controller. Using advanced image scaling algorithms, Mascot V has intelligently adaptive sub-algorithms that will automatically optimize the display quality for different images – the text is sharper and the graphics is smoother.

The build-in analog interface includes an 80MHz, 8-bit 3-channel ADC, pre-amplifier, and VGA, allowing seamless support to resolution from VGA to XGA. ADC function block diagram, see FIG3-1.

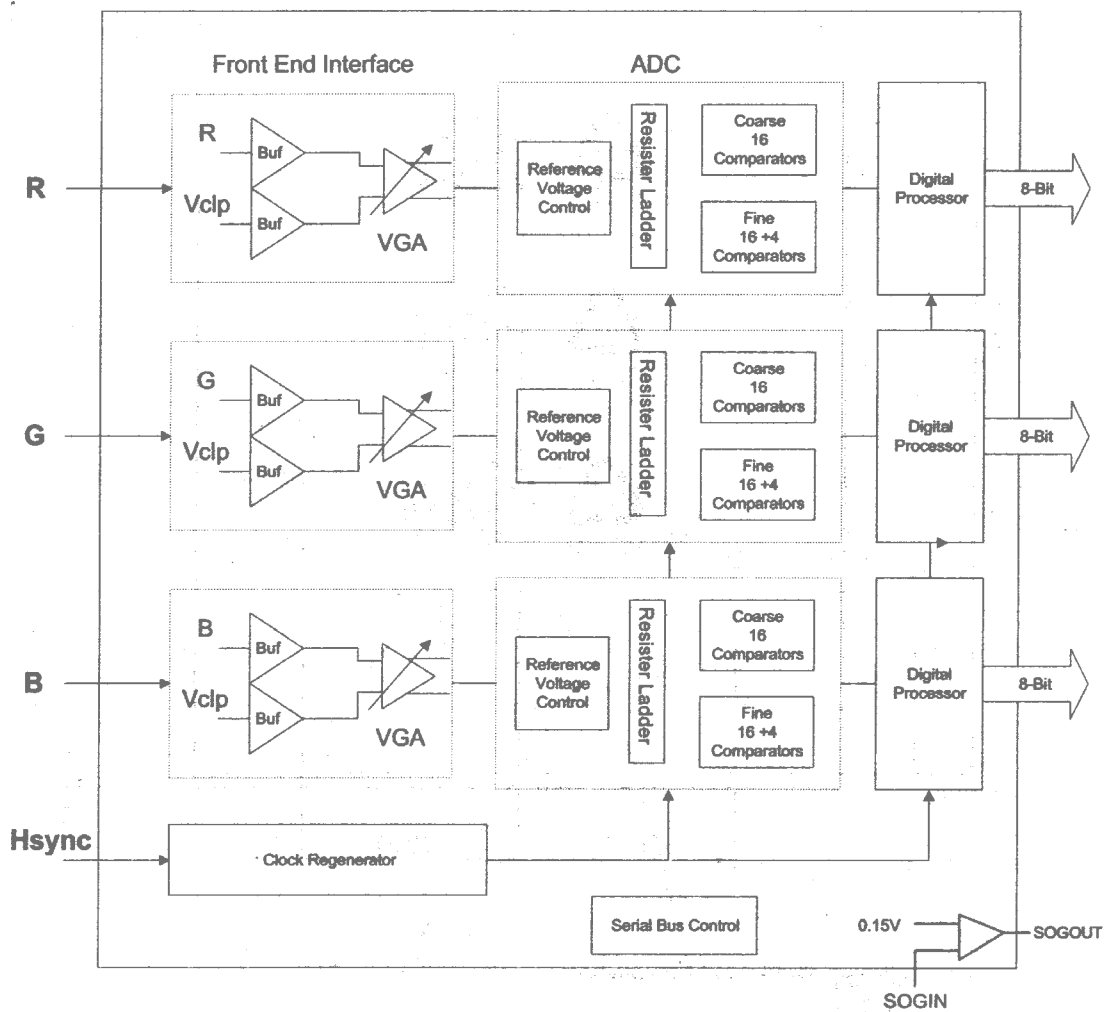


FIG3-1 ADC Functional Block Diagram

Clock Re-Generator Functional Block Diagram

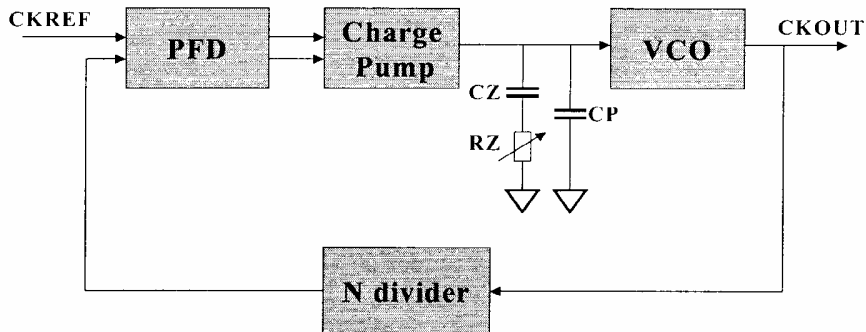


FIG3-2 Clock Re-Generator

ADC Block Description

Variable Gain Amplifier (VGA)

The front-end circuit is designed to provide four major functions:

Provide AC coupled interface with single-ended R/G/B input signal, convert single-ended signal to differential signal, and define common mode voltage.

Define CLAMPING voltage level with respect to ground for image brightness control.

Perform user programmable precision gain amplification.

Provide low impedance differential driver for ADC.

Phase Locked Loop (PLL) and Multi-Phase Generation

The phase locked loop (PLL) generates desired ADC sampling clock frequency (30 MHz to 80 MHz) from external line clock CKREF. The exact frequency is register programmable and related to the input line clock CKREF as follows:

$$\text{Freq (PLL)} = \text{Freq (CKREF)} * \text{Ndiv} <12:0>$$

To ease the graphic interface, a phase programmable output clock is also generated for external use. The exact phase delay with respect to VCO output clock is register programmable and can be formulated as follows:

$$T_{\text{DELAY}} = \tau + T_{\text{clk}} * \text{phase} <4:0> / 32$$

Where there is a systematic delay. Due to the periodic nature of the clock, user can practically program the ADC sampling anywhere with respect to data in the step size of $T_{\text{clk}}/32$.

ADC

Based on the requirements for this ADC (high speed, low power and small size). The sub ranging architecture is used to minimize the number of comparators. The interpolation technique is also used to reduce the number of preamplifiers. Two identical 8bit ADC converters are used to increase the throughput of sub ranging ADC to one conversion per clock cycle.

Each ADC operates in two-step sub range, i.e. coarse (3 bits) and fine (5 bits). One to four interpolations is performed in fine conversion step to minimize the number of preamplifier and to improve differential non-linearity errors (DNL). In addition, in order to prevent potential error occurred during coarse conversion, digital error correction technique is also used.

Clock Re-Generator Functional Block Diagram

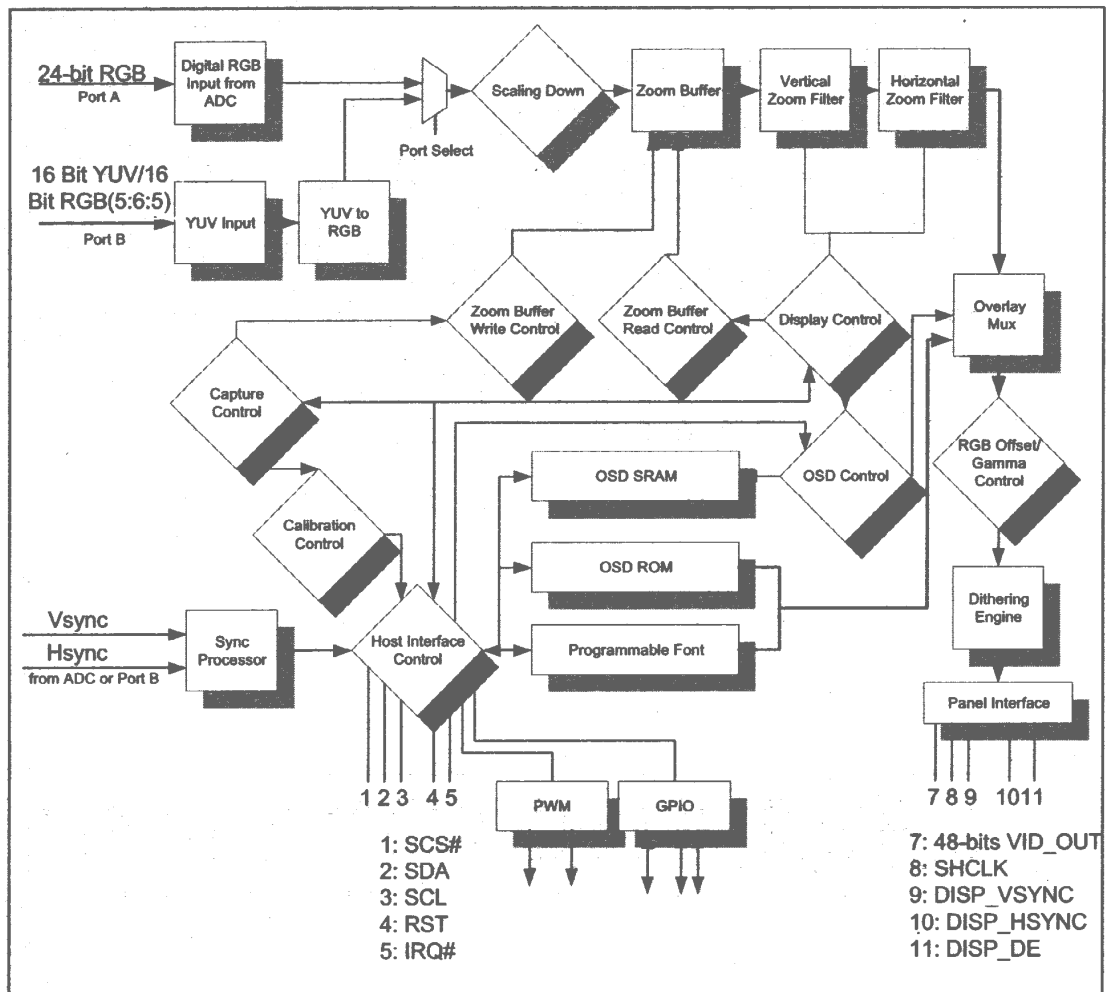


FIG3-3 Clock Re-Generator

Host Interface Control

Host interface controller is an interface between Mascot V and an external CPU. The access to Mascot V internal registers, SRAM, programmable fonts, gamma tables, and ROM is performed by interface controller. Mascot V provides single read/write and incremental read/write. Mascot V supports I2C bus and SPI protocols. The bus protocol selection is determined by pin CONFIG[4], and Mascot V slave address is determined by pin CONFIG[3:0].

GPIO (General Purpose Input/Output)

General Purpose Input/Output

Mascot V has provided three pins for general purpose input/output(GPIO); these pins can be programmed as input or output pins; each GPIO pin has three registers for programming: GPIO Input/output control register, GPIO output data register and GPIO input register; When GPIO is programmed as output pin, GPIO Input/output control register is programmed as 1 (output), and the output data is provided by GPIO output data register; When programmed as input pin, GPIO Input/output control register is programmed as 0(input), the input value can be accessed through GPIO input register.

PWM (Pulse Width Modulation)

Mascot V has provided two sets of PWM, each PWM can generate programmable periodic square waves. The generated wave consists of low period and high period. The low period and high period can be programmed separately. Each period can be programmed to be 0~255 basic cycles. The basic cycle is defined by design, which also has four kinds of basic cycles can be chosen by programming.

Sync Processor

Sync Processor is used to detect input source (analog RGB or 24-bit RGB) and generate interruption to an external CPU if input source changes. Then the CPU can program Mascot V correctly according to different input sources. Sync Processor can generate interruption when there are frequency changes, Hsync and Vsync polarity changes, and when there is no input signal. Sync processor provides h_counter and v_counter which are stored in registers CR0B, CR0C, CR0D, and CR0E. V frequency can be calculated by $(\text{refclk}/64) / v_counter$ or $187.5\text{kHz} / v_counter$ for using 12MHz refclk. H frequency is calculated by $(\text{refclk}/512k) * h_counter$ or $46.5\text{Hz} * h_counter$ or $46.5\text{Hz} * h_counter$ for using 12MHz refclk.

Mascot V Sync Processor can also support composite Sync and sync-on-green inputs. If sync Processor detects the input source is composite sync or sync-on-green input, Mascot V will separate composite sync or sync-on-green to Hsync and Vsync.

Calibration

Calibration block performs position calibration, color calibration and phase calibration. In position calibration, non-zero data are detected horizontally and vertically. The Left most and right most positions and their corresponding pitch can be found. Also Horizontal Total & Vertical Total are calculated.

Color calibration includes maximum color component detection, color read back from specified position and maximum color difference in 2 neighboring pixels.

In maximum color calibration, the pixel which has the maximum color component (based on CRB1[3:0]) can be found. In color read back calibration, the color component (based on CRB[3:0]) for specific position can be read back. In maximum color difference calibration, for specific color component, color differences between every 2 neighboring pixels are compared from first till the last pair within a frame. The position which has the largest color difference with its neighboring data is found.

Phase calibration can report pixel mismatch in up to 32 frames based on 2 specified points.

Capture Controller

Capture Controller is used to generate synchronization signals which are used for internal Mascot V. Within Capture Controller block(FIG3-4), incoming data are processed, filtered, minimized and aligned with controlling signals. Important internal synchronization signals include H_cnt, V_cnt, internal blank, and end_of_frames.

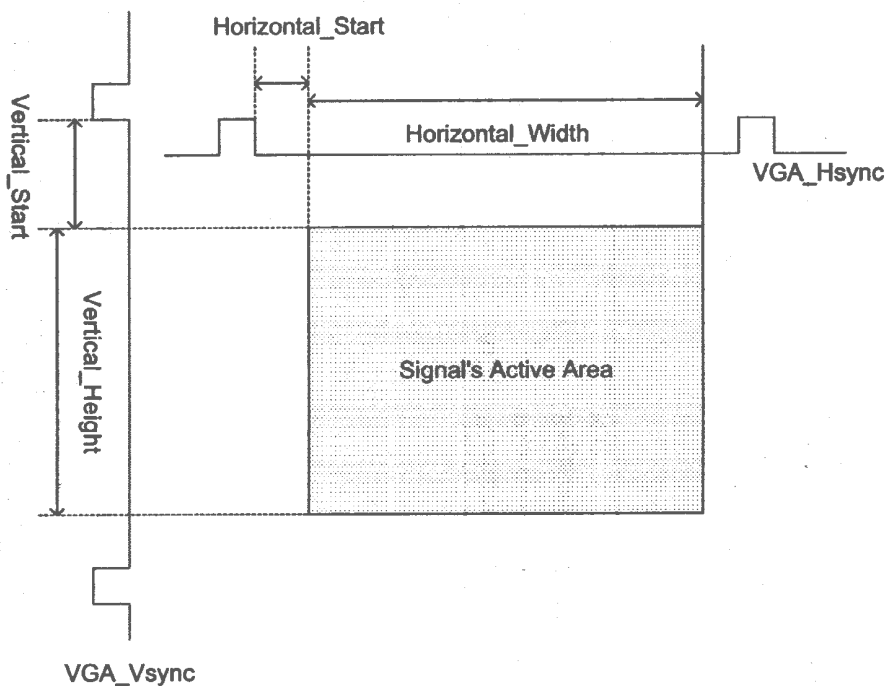


FIG3-4 Capture Controller block

YUV to RGB Block

This block performs color space format conversion. Mascot V can convert 16 Bit YUV, RGB into 24 Bit RGB data format.

Scaling Down

This block is used to conditionally drop incoming data if the incoming resolution is greater than 1024x768 which is the physical resolution of the panel. A modified version of the Bresenham line-drawing algorithm is used to determine which incoming data not to discard.

Zoom Buffer

Zoom Buffer is used to store input data for scaling (zoom) function.

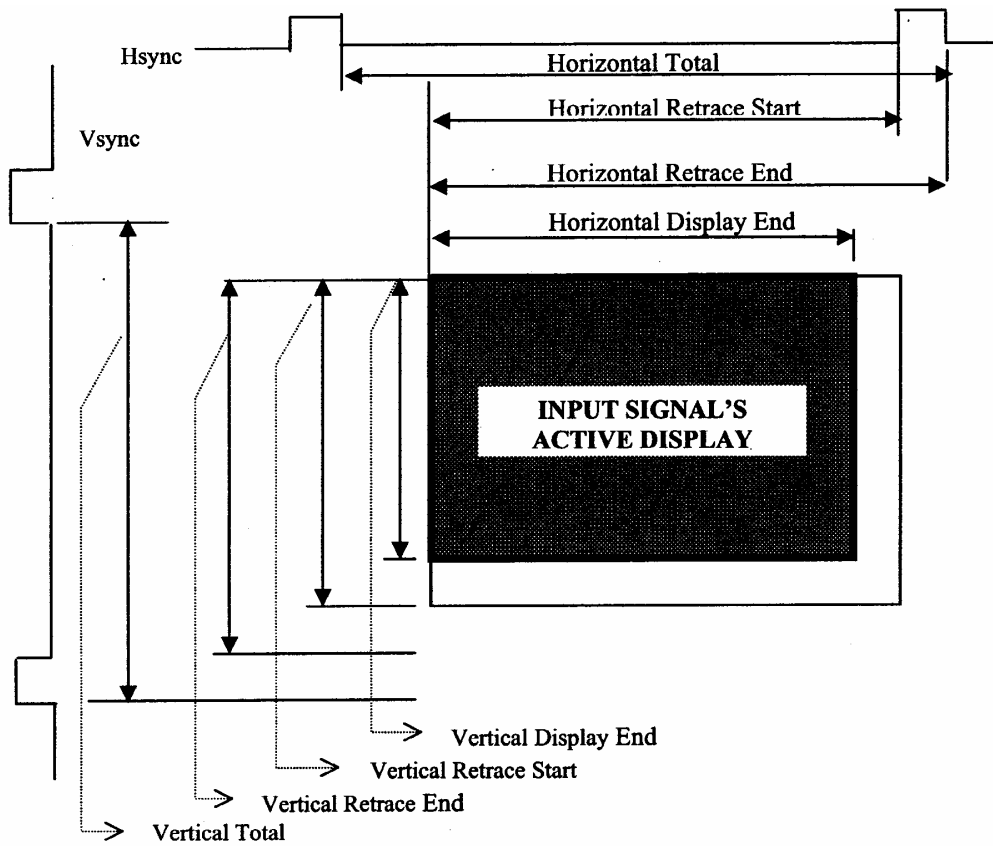
Zoom Buffer Write Control and Zoom Buffer Read Control

This Block generates write and read control signal to access zoom buffer.

Vertical Zoom Filter and Horizontal Zoom Filter

The Mascot V scaling engine uses an advanced scaling technology and provides high quality scaling of text images, graphic images and real-time video.

Display Control



The Display Control generates Vsync, Hsync, DE for TFT panel and other internal synchronization signals.

FIG3-5 Display Control

On-Screen Display

Mascot V OSD display supports 256 different fonts at size of 12x18, 256 fonts contain 128 fixed fonts that are stored in internal ROM, other 128 programmable fonts are stored in internal SRAM. OSD also supports Overlay port interface and color look-up table with 4 color indices from external OSD.

Diagram listed below is the concept of how OSD retrieve and display OSD Font. See FIG3-6.

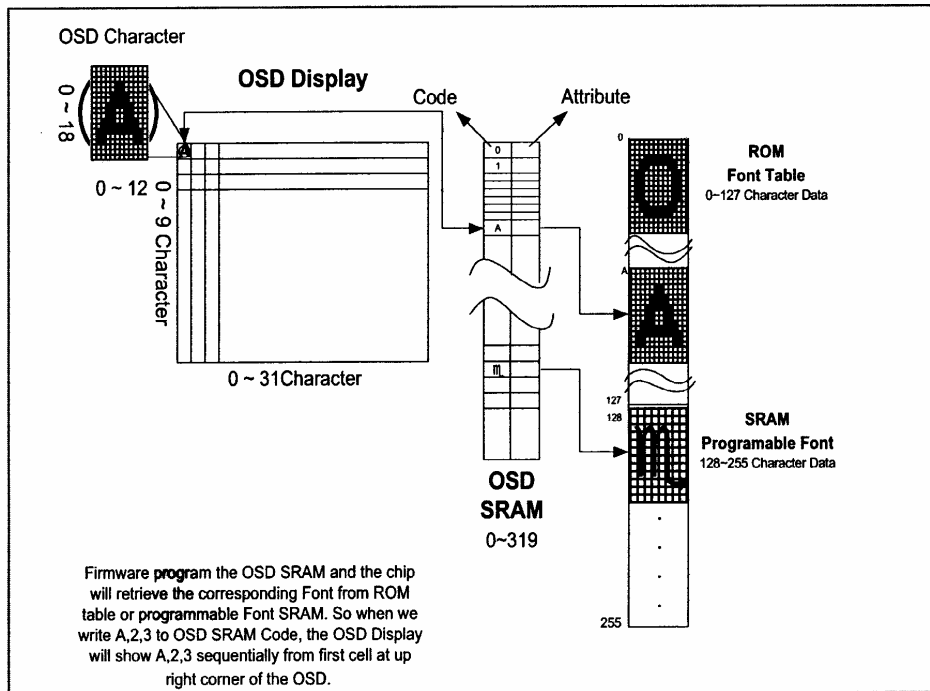


FIG3-6 On-Screen Display

When an OSD key has been pressed, firmware will detect the change and perform the procedure. Once firmware starts "drawing" OSD, it will program the OSD code and attribute to the OSD SRAM. Chip will look-up the OSD code then retrieve the character font data that corresponds to the code and then display the character on LCD panel. There are 320 memory spaces from 0 to 319 in SRAM. It is sequentially mapped to the OSD frame started from the upper-right corner and goes horizontally to the upper-left corner, and then move to the 2nd row and etc. ending at left-bottom corner. OSD frame are divided by 0~9 in row, total is 32x10=320 characters.

Diagram listed below is the concept of how 24bit RGB OSD character is composed, see FIG3-7 OSD Display Flow Chart. Each OSD character font data that is read out from ROM table will use the 4-bit foreground and 4-bit background color to determine its color. Use these 4-bit color indices to look-up the palette and select related 15bit RGB foreground and background color. Add a 3bit "0" to each R, G, and B channel then generate 24-bit RGB color for the OSD character.

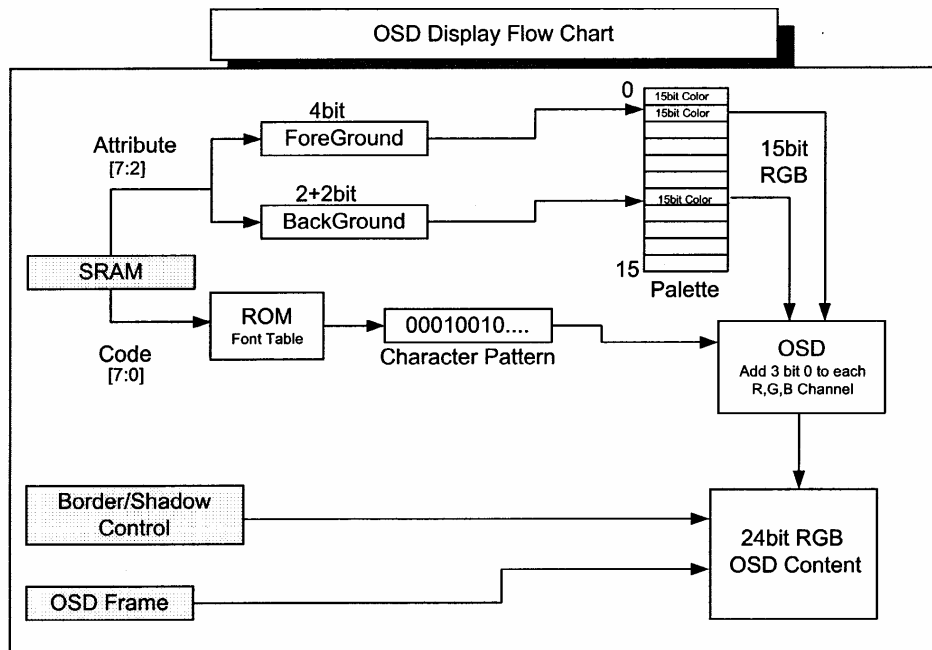


FIG3-7 OSD Display Flow Chart

Overlay Block

The Overlay Block mixes the scaled image data and osd data...

Overlay block mix mode is following 4 ways listed below:

- Transparent (Display)
- Opaque (OSD)
- Background Transparent (0 bits = Display)
- Translucent ((Display + OSD)/2)

RGB Offset and Gamma controller Block:

The RGB offset function is used to adjust brightness of the RGB data. It provides a simple shift (positive or negative) for each of the 3 color channels.

The Gamma Correction Block controls the linearity of RGB data.

It is used to adjust the RGB data according to the individual display characteristics and human eyes favorite. In addition, the gamma table may be used for contrast, brightness, and white balance (temperature) adjustment.

The Gamma Correction linearity can be programmed through host interface.

Dithering Block

The Dithering Block generates output RGB data for TFT panels that have fewer than 8 bits for R, G and B input. Mascot V uses a proprietary algorithm to generate smooth shade colors.

Panel Interface

Mascot V chip interfaces with all commonly used active matrix flat panel, e.g. 640x480, 800x600, and 1024x768.

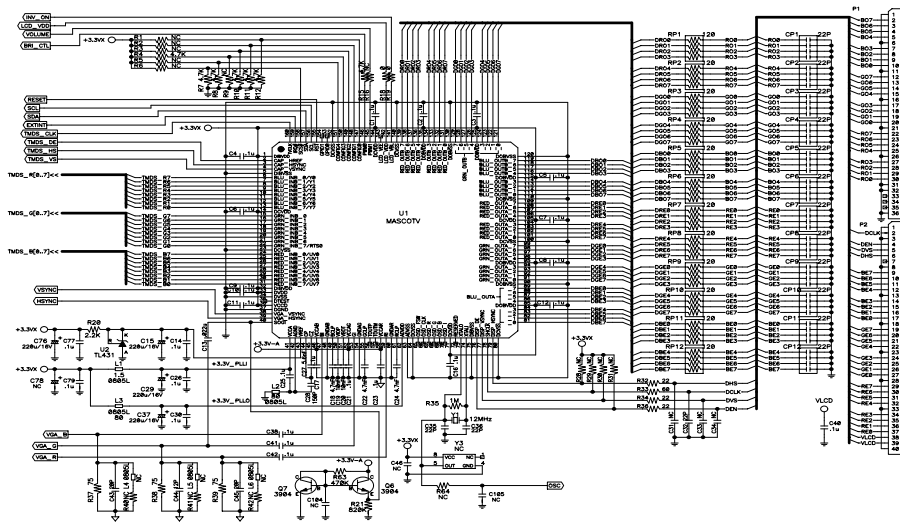


FIG3-8 Mascot function block

MPU

VG150m is controlled by a μ -controlled SM5964.

Description of SM5964

The SM5964 series product is an 8 – bit single chip microcontroller with 64KB flash & 1K byte RAM embedded. It has In-System Programming (ISP) function and is a derivative of the 8052 microcontroller family. It has 5-channel SPWM build-in. User can access on-chip expanded RAM with easier and faster way by its ‘bank mapping direct addressing mode’ scheme. With its hardware features and powerful instruction set, it’s straight forward to make it a versatile and cost effective controller for those applications which demand up to 32 I/O pins for PDIP package or up to 36 I/O pins for PLCC/QFP package, or applications which need up to 64K byte flash memory either for program or for data or mixed.

To program the on-chip flash memory, a commercial writer is available to do it in parallel programming method. The on-chip flash memory can be programmed in either parallel or serial interface with its ISP feature.

Ordering Information

SM5964ihhk (blank chip)

SM5964ihh – yyyk

I: process identifier {C, L}

hh: working clock in MHz {40}.

yyy: production code {001,...,999}

k: package type postfix {as below table}

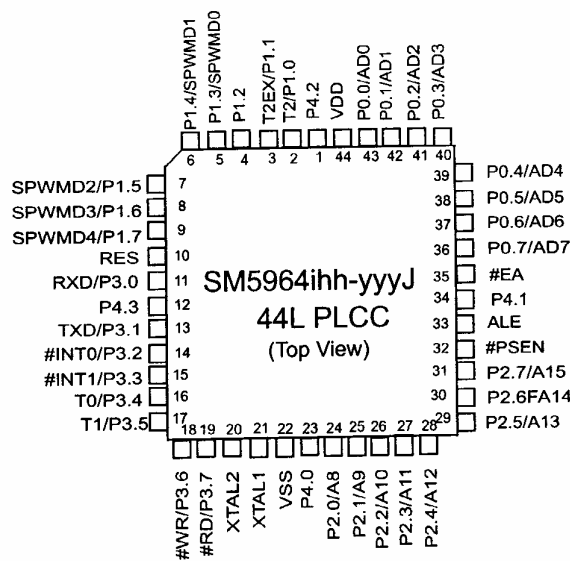


FIG4-1 SM5964 Pin Configuration

Features of SM5964

- Working voltage: 4.5V through 5.5V
- Program voltage: 5V
- General 8052 family compatible
- 12 clocks per machine cycle
- 64K byte on chip flash memory with In-System Programming (ISP) capability
- 1024 byte on chip data RAM
- Three 16 bit Timers/Counters
- One Watch Dog Timer
- Four 8-bit I/O ports for PDIP package
- Four 8-bit I/O ports + one 4-bit I/O ports for PLCC or QFP package
- Full duplex serial channel
- Bit operation instruction
- Page free jumps
- 8-bit Unsigned Division
- 8-bit Unsigned Multiply
- BCD arithmetic
- Direct Addressing
- Indirect Addressing
- Nested Interrupt
- Two priority level interrupt
- A serial I/O port
- Power save modes: Idle mode and Power down mode
- Code protection function
- Low EMI (inhibit ALE)
- Reset with address \$0000 blank initiate ISP service program
- ISP service program space configurable in N*512byte (N=0 to 8) size
- Bank mapping direct addressing mode for access on-chip RAM
- Five channel Specific PWM (SPWM) build-in
- Direct LED drive output at port 4

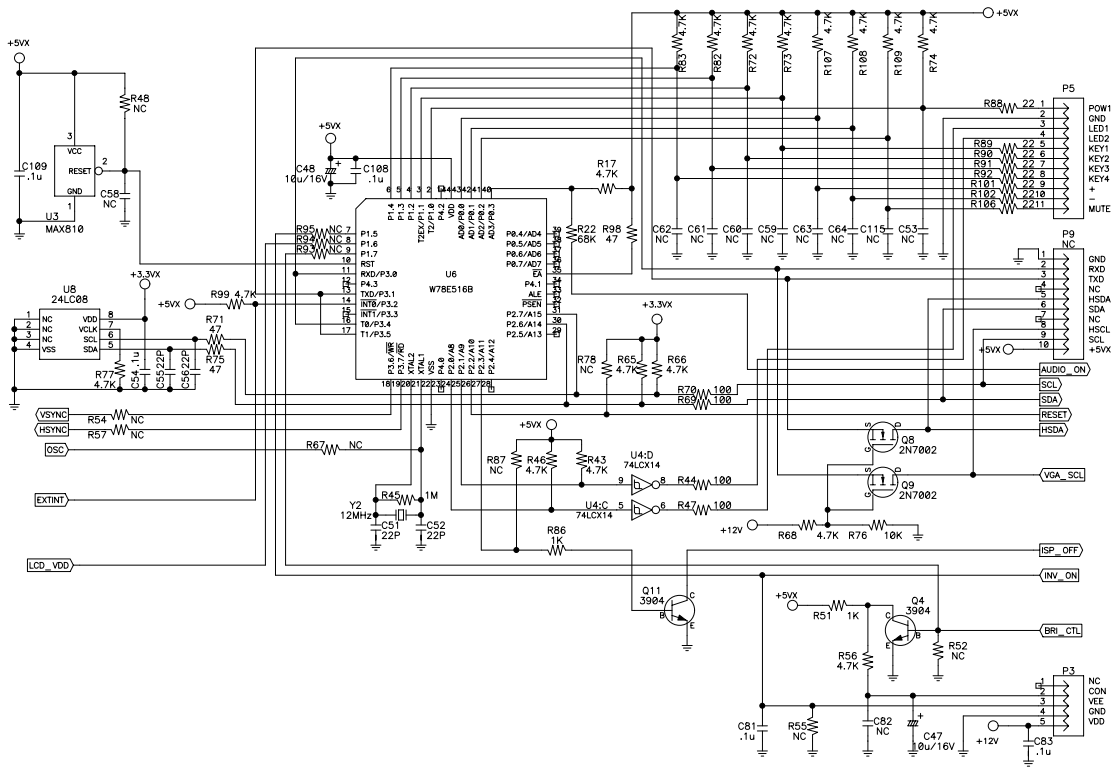


FIG4-2 MPU Control Block

AUDIO

VG150m/mb use AN7512 for stereo system, AN7512 is a dual 2-W BTL (Balanced Transformer-Less) audio power amplifier IC. Speakers and microphone will stay on, while the rest of the monitor is in power saving. See FIG5-1.

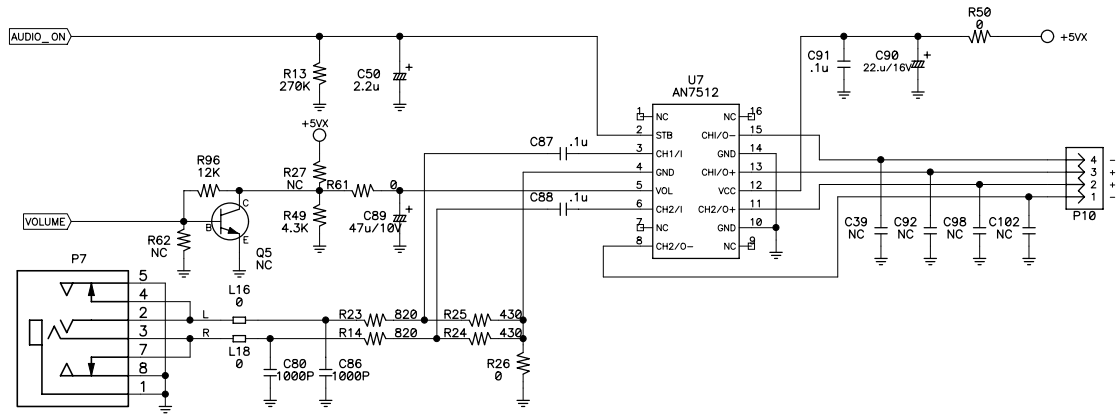


FIG5-1 Audio block diagram

5. Adjustment

On Screen Display

OSD (On Screen Display) function is supported on each of the TFT LCD analog display monitors and is controlled by easy to use Button 1, Down, Up, Button 2, Power (Soft Switch), Mute, Volume – and Volume +. (Power, 1, 2 and mute button should be one shot logic operation).

MAIN MENU	Sub-Function	Value
AUTO IMAGE ADJUST		
CONTRAST/ BRIGHTNESS		Adjustment Bar
COLOR ADJUST	6500K	(default)
	9300K	(default)
	USER	
	RED	Adjustment Bar
	GREEN	Adjustment Bar
	BLUE	Adjustment Bar
INFORMATION		
LANGUAGE	ENGLISH	
	FRANCAIS	
	DEUTSCH	
	ITALIANO	
	ESPANOL	
	SUOMI	
	JAPANESE	
	CHINESE TRADITIONAL	
	CHINESE SIMPLIFIED	
MANUAL IMAGE ADJUST	H SIZE	
	H/V POSITION	
	FINE TUNE	
	SHARPNESS	ON/OFF
SETUP MENU	RESOLUTION NOTICE	ENABLE/DISABLE
	OSD POSITION	H/V Adjustment Bar
	OSD TIME OUT	5S/15S/30S/60S
	BACKGROUND	ON/OFF
MEMORY RECALL		

OSD Lock short cuts function for the buttons

1. The OSD lock will be activated by pressing the front panel control buttons "(1), & (up)" for 10 seconds. If the user then tries to access the OSD by pressing any of the buttons "1", "down", "up", "2" a message will appear on the screen for 3 seconds showing "OSD Locked". The OSD lock will be deactivated by pressing the front panel control buttons "(1), & (up)" again for 10 seconds.

Note 1: LED flashes orange when the OSD has been Locked or Unlocked.

2. The power button lock will be activated by pressing the front panel control buttons "(1), & (down)" for 10 seconds. Locking the power button means that the user won't be able to turn off the LCD while the power button is locked. If the user presses the power button while it is locked, a message will appear on the screen for 3 seconds showing "Power Button Locked". It also means that with the power button locked, the LCD would automatically turn back "On" when power is restored after a power failure. If the power button is not in the locked mode, then power should return to its previous state when power is restored after a power failure. The power button lock will be deactivated by pressing the front panel control buttons "(1), & (down)" again for 10 seconds.

Note: LED flashes orange when the power button has been Locked or Unlocked.

Short Cut Keys:

Auto Image Adjust: press button [2]

Contrast / Brightness: press buttons Up or Down

[DOWN] + [UP] arrows = recall Contrast and Brightness while in the Contrast or Brightness adjustment, or when the OSD is not open.

[Audio-] + [Audio+] = recall volume to 50% whether or not the OSD is open.

OSD lock and unlock: press two buttons [1] & [Up] simultaneously for 10 seconds.

Power lock and unlock: press two buttons [1] & [Down] simultaneously for 10 seconds.

Memory Recall is to recall the following functions to factory setting:

Contrast, brightness, h size, h/v position, color temperature @ 6500K, OSD position, sharpness, OSD timeout, volume, and Resolution Notice.

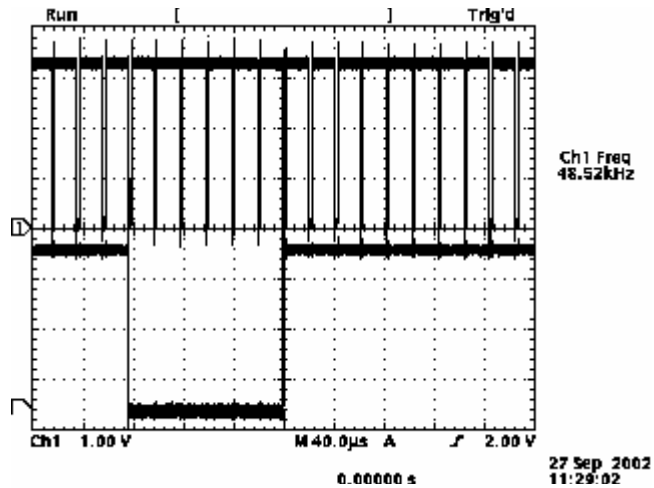
Note: Memory Recall should have no effect for Mute, Language, or User Color Settings.

6.Troubleshooting Flow Chart

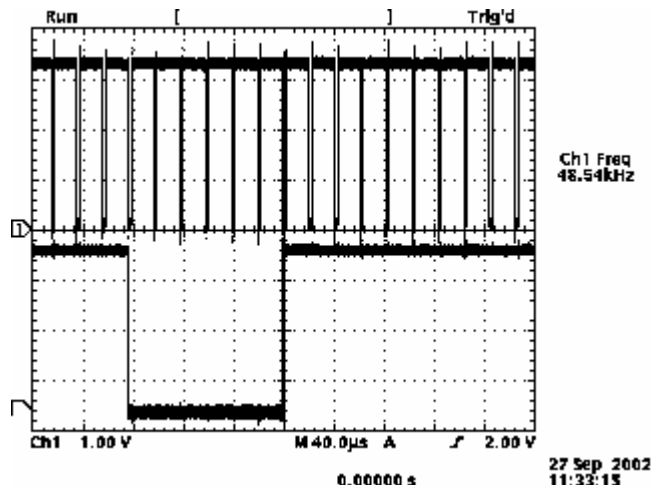
6-1 Figures of Waveform

Input Signal: VGA Card Sis 620
Resolution 1024X768
HSYNC 48.5 KHz
VSYNC 60Hz

CH1: INPUT HSYNC (PIN13 OF P8)
CH2: INPUT VSYNC (PIN14 OF P8)

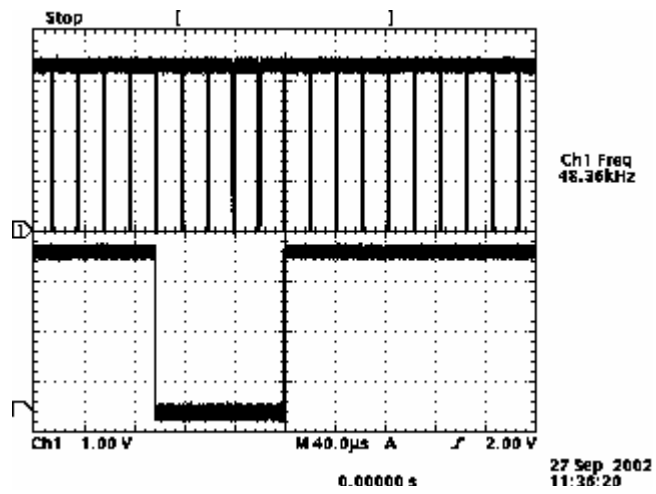


CH1: VGA_HSYNC (PIN39 OF U1)
CH2: VGA_VSYNC (PIN40 OF U1)



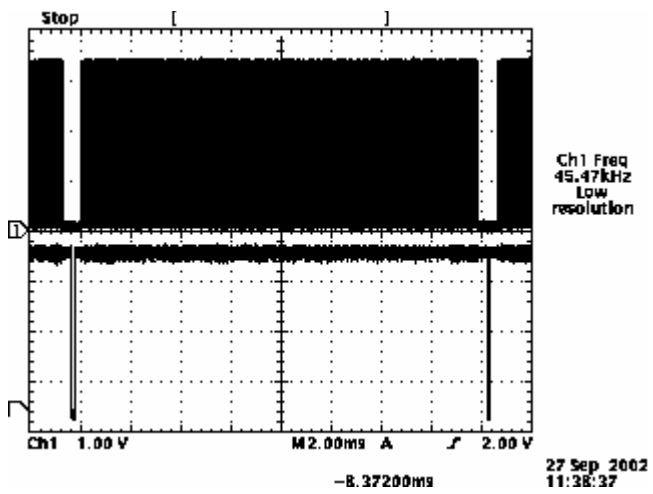
CH1: DISP_HSYNC (PIN79 OF U1)

CH2: DISP_VSYNC (PIN77 OF U1)

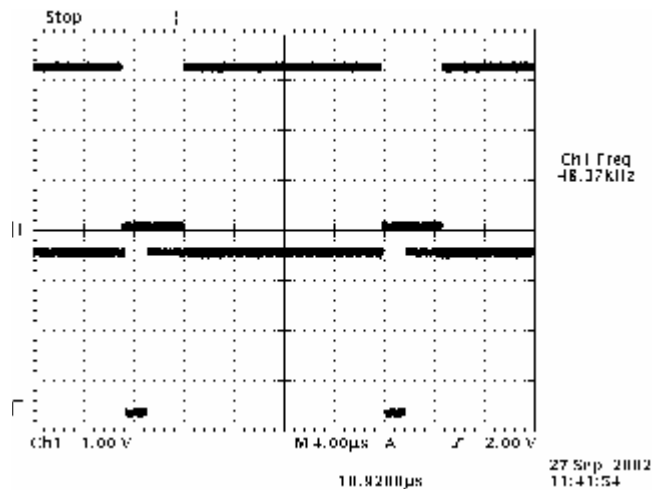


CH1: DISP_DE (PIN76 OF U1)

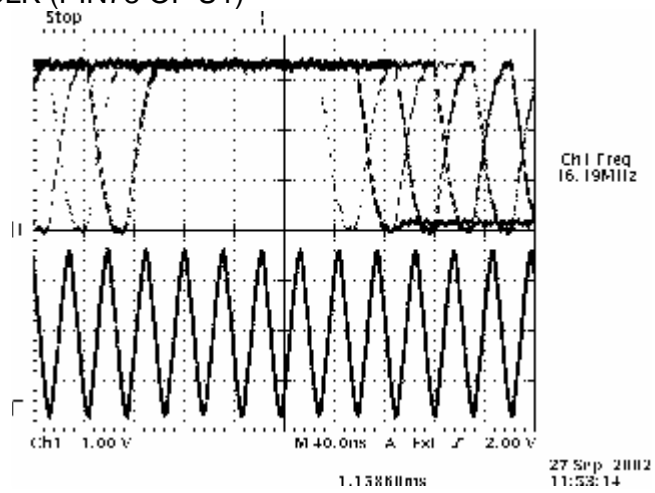
CH2: DISP_VSYNC (PIN77 OF U1)



CH1: DISP_DE (PIN76 OF U1)
CH2: DISP_HSYNC (PIN79 OF U1)

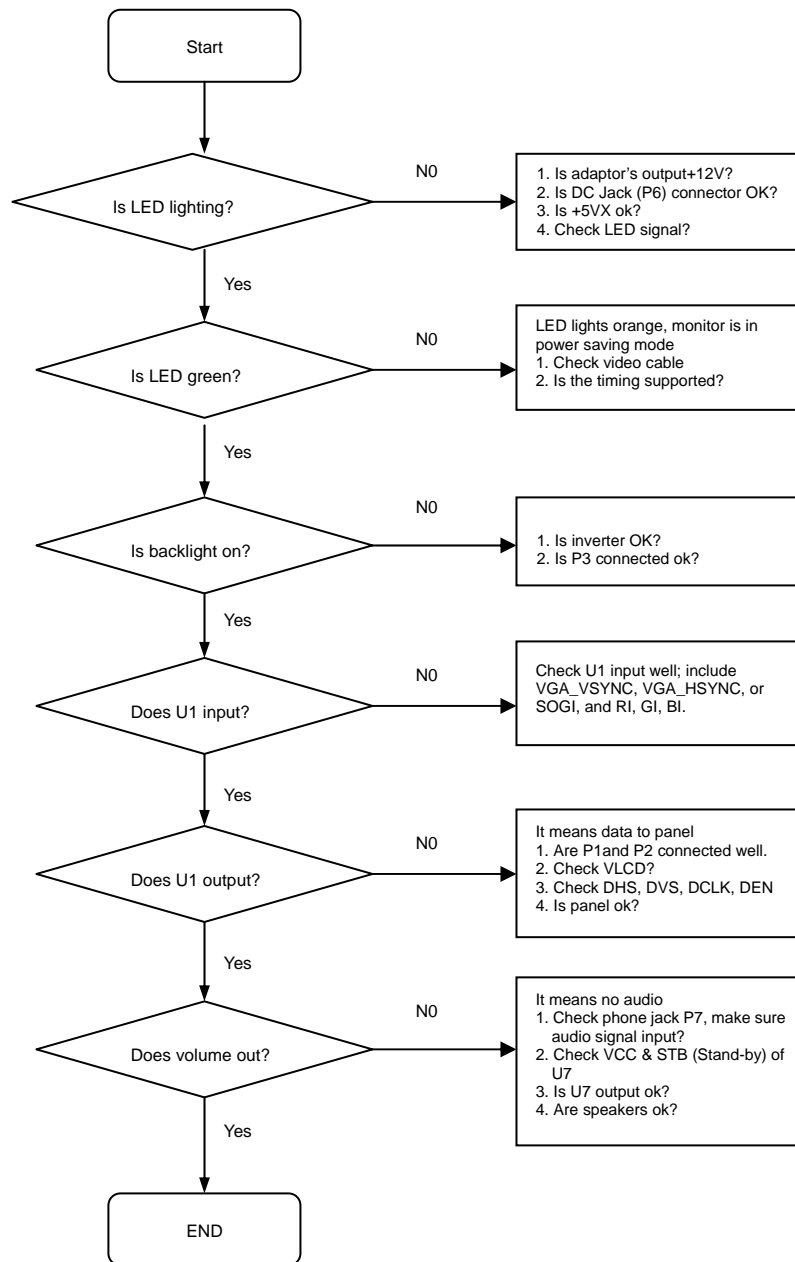


CH1: BLU_OUTB_4 (PIN116 OF U1)
CH2: HSCLK (PIN78 OF U1)

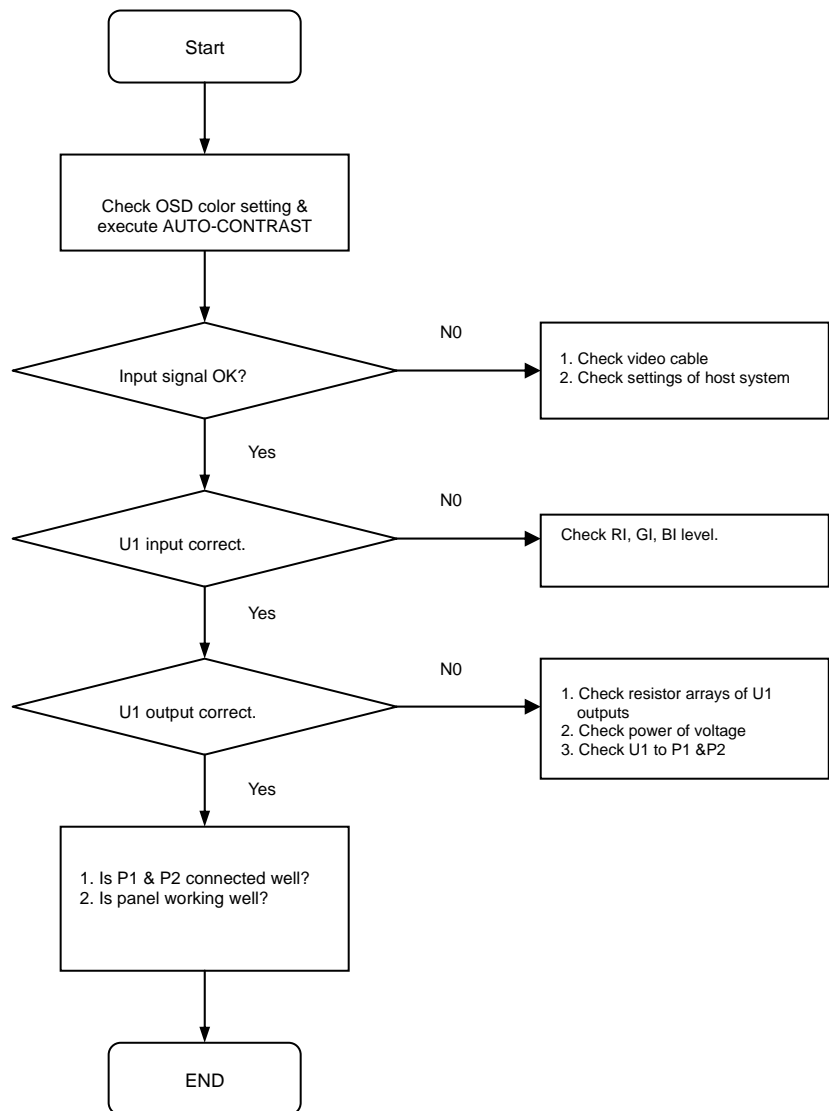


6-2 Troubleshooting Flow Chart

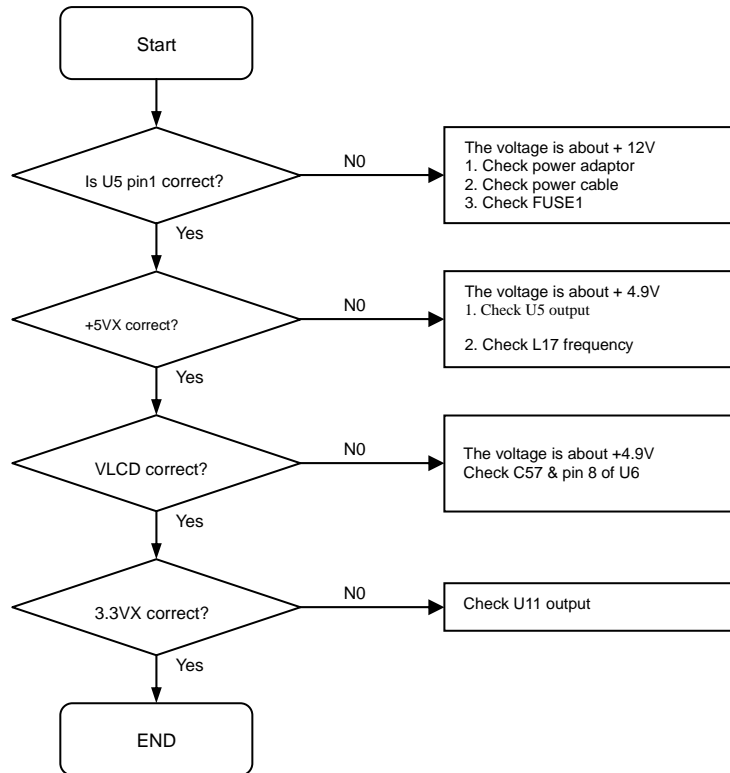
MONITOR DOES NOT WORK



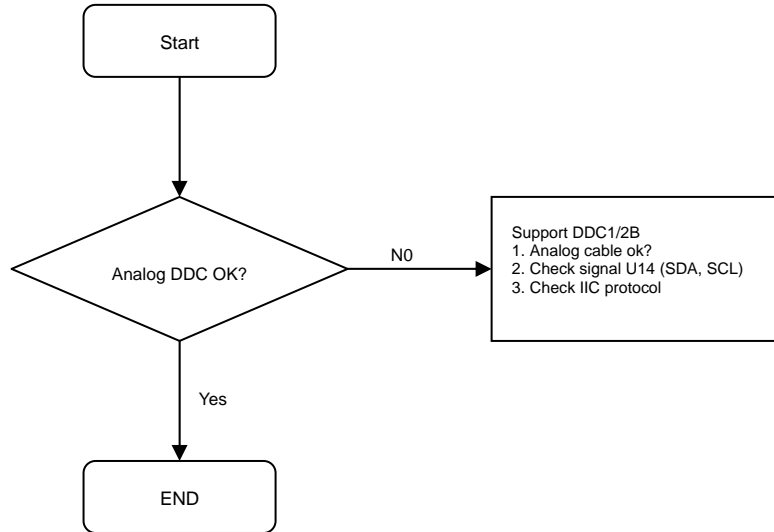
R, G, B COLOR Does NOT DISPLAY CORRECT



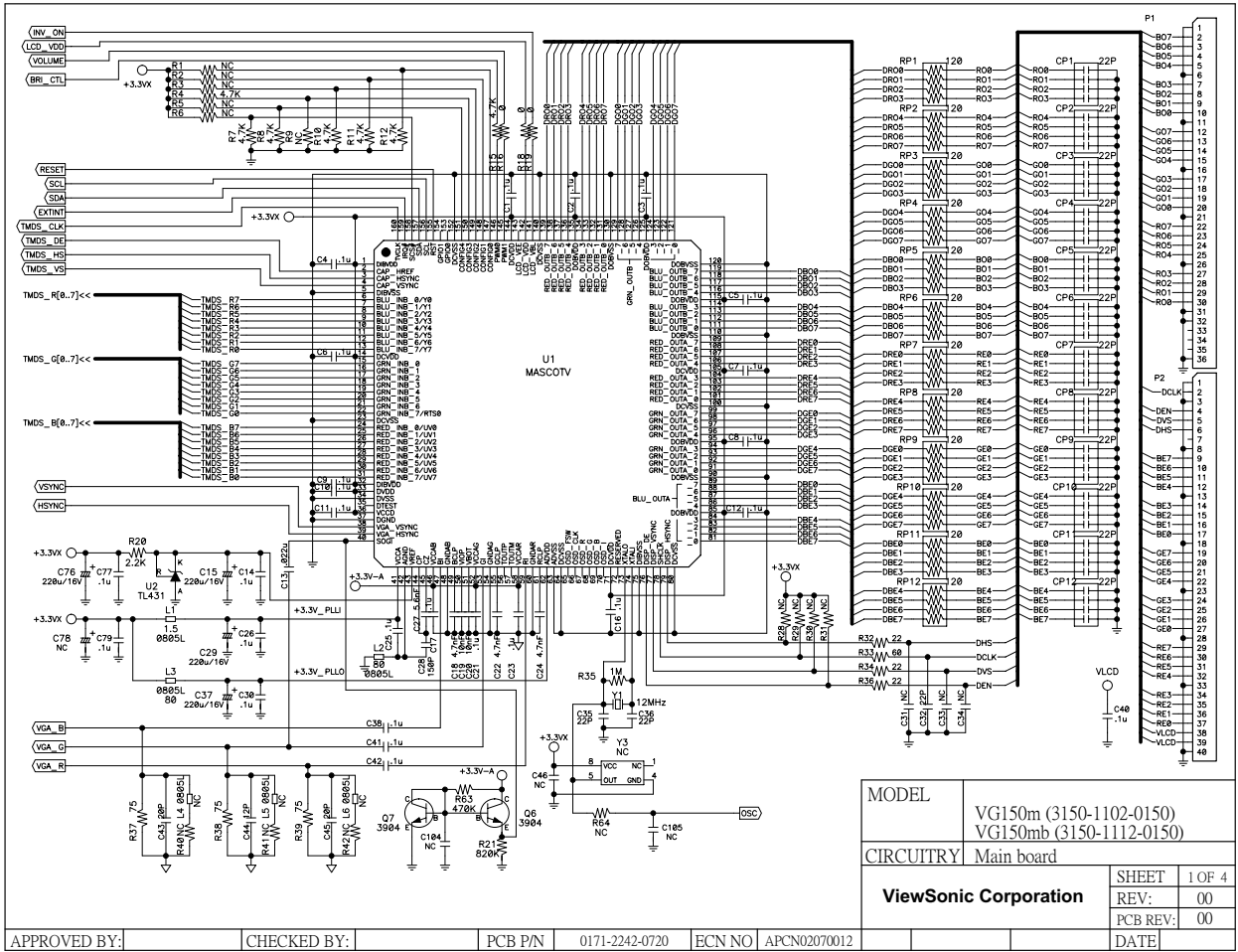
TROUBLE OF DC-DC CONVERTER

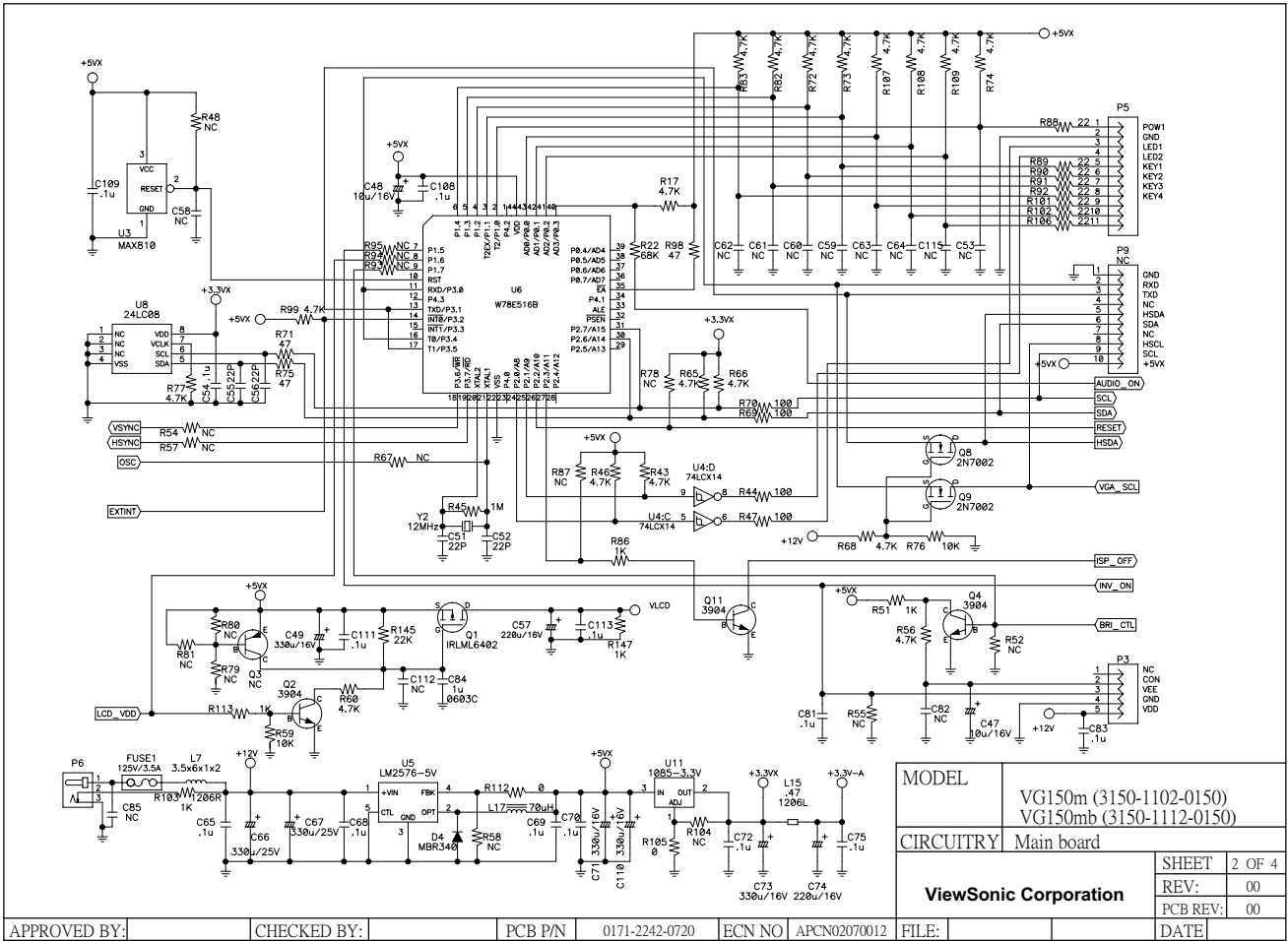


TROUBLE OF DDC READING



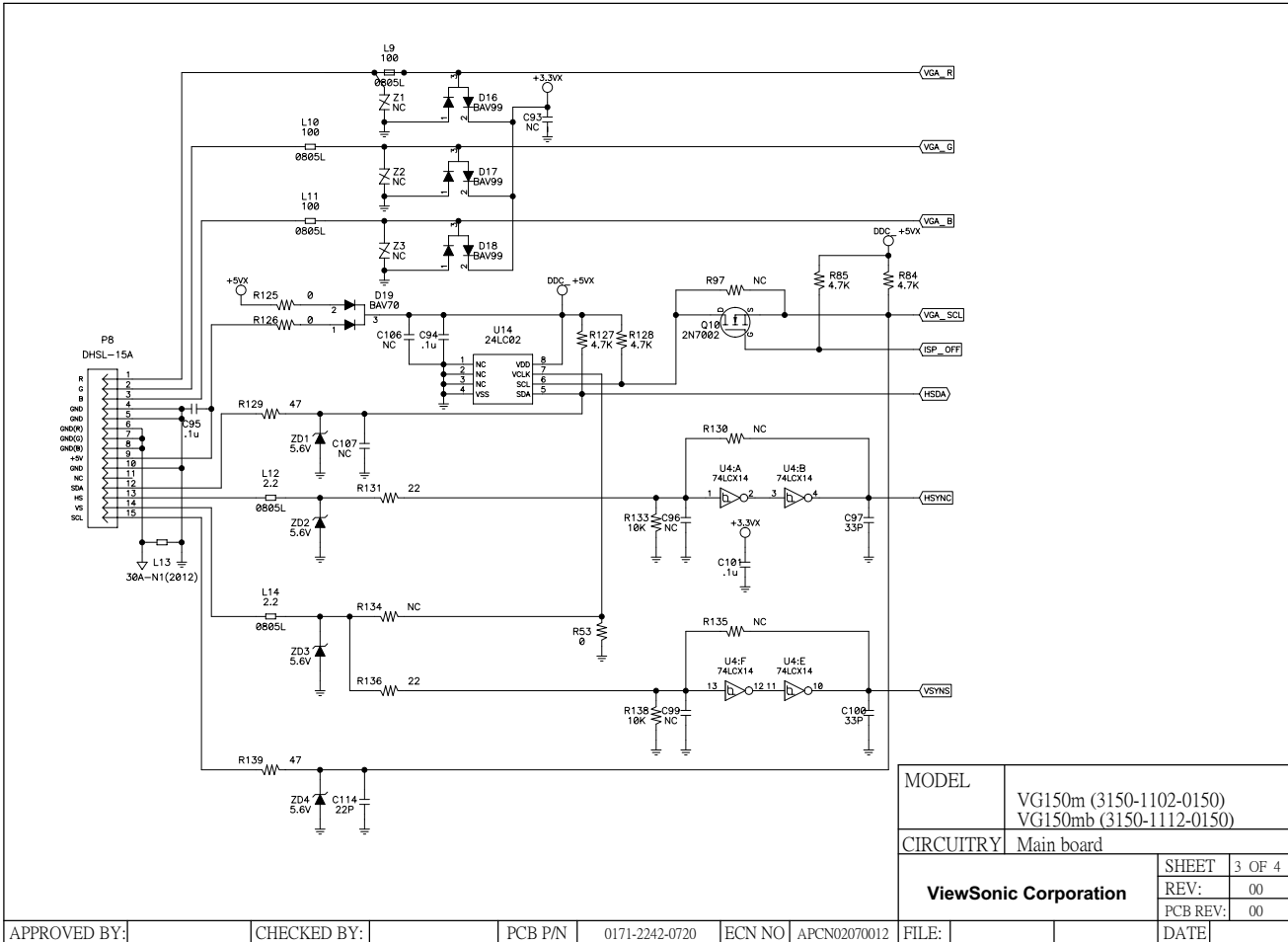
7. Schematics Diagrams

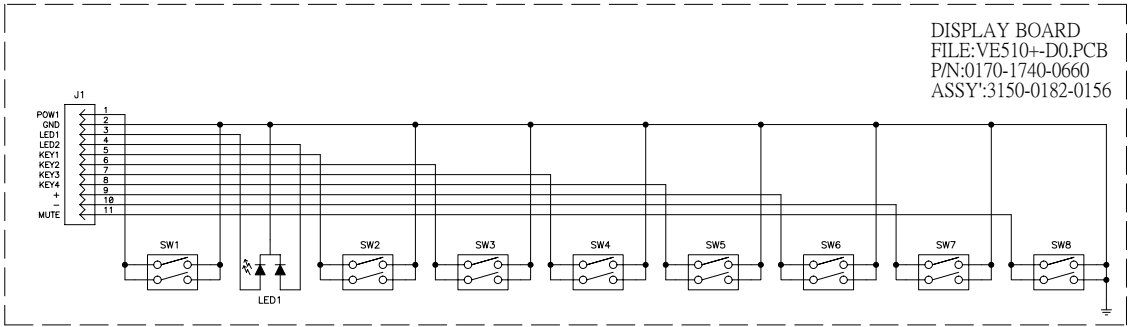
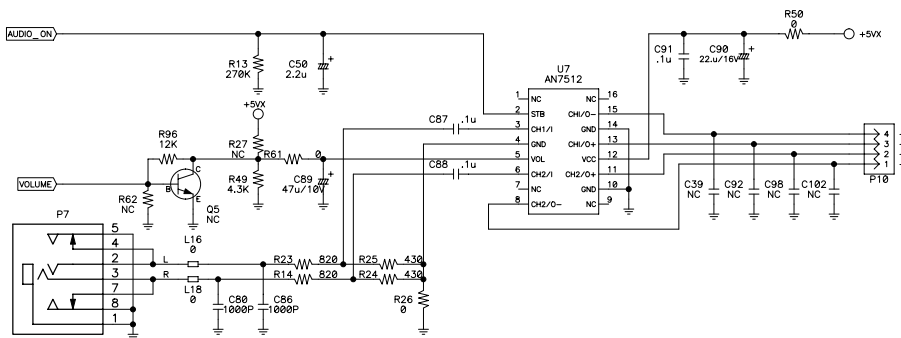




MODEL	VG150m (3150-1102-0150) VG150mb (3150-1112-0150)	
CIRCUITRY	Main board	
ViewSonic Corporation	SHEET	2 OF 4
	REV:	00
	PCB REV:	00
	DATE	

APPROVED BY: _____ CHECKED BY: _____ PCB P/N: 0171-2242-0720 ECN NO: APCN02070012 FILE: _____



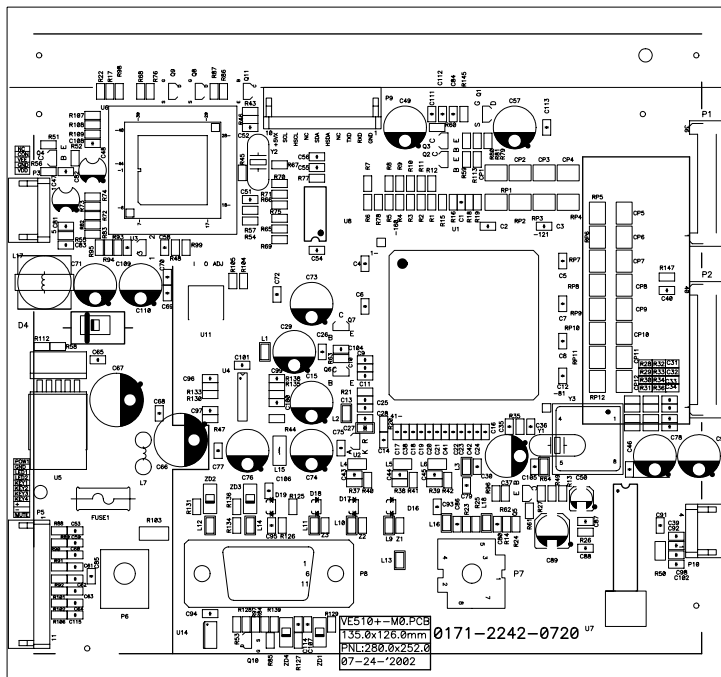


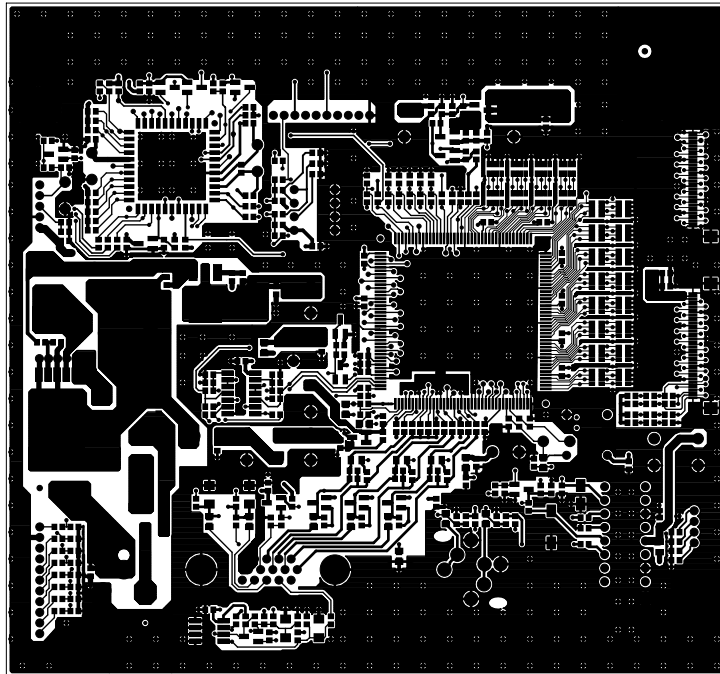
DISPLAY BOARD
 FILE:VE510+-D0.PCB
 P/N:0170-1740-0660
 ASSY:3150-0182-0156

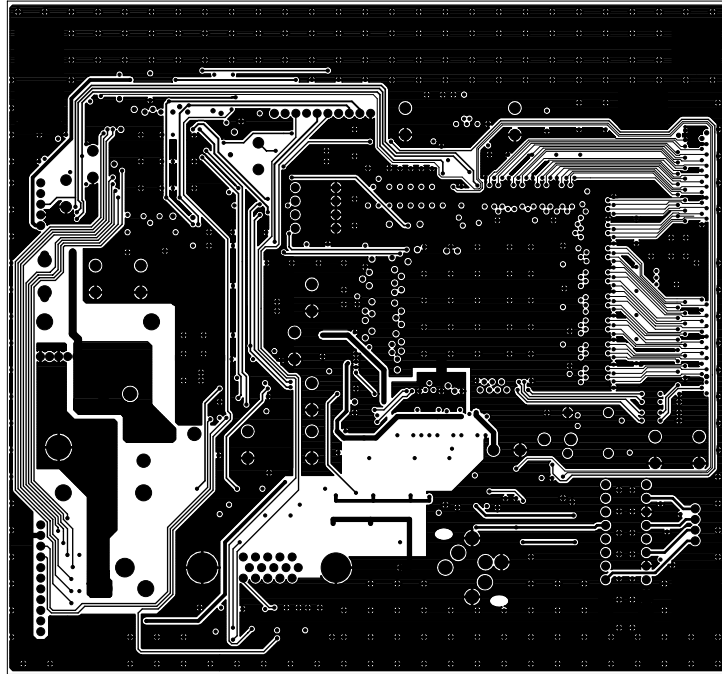
MODEL	VG150m (3150-1102-0150) VG150mb (3150-1112-0150)		
CIRCUITRY	MAIN BOARD		
ViewSonic Corporation	SHEET	4 OF 4	
	REV:	00	
	PCB REV:	00	

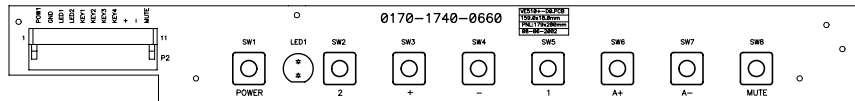
APPROVED BY:	CHECKED BY:	PCB P/N	0171-2242-0720	ECN NO	APCN02070012	FILE:		DATE	
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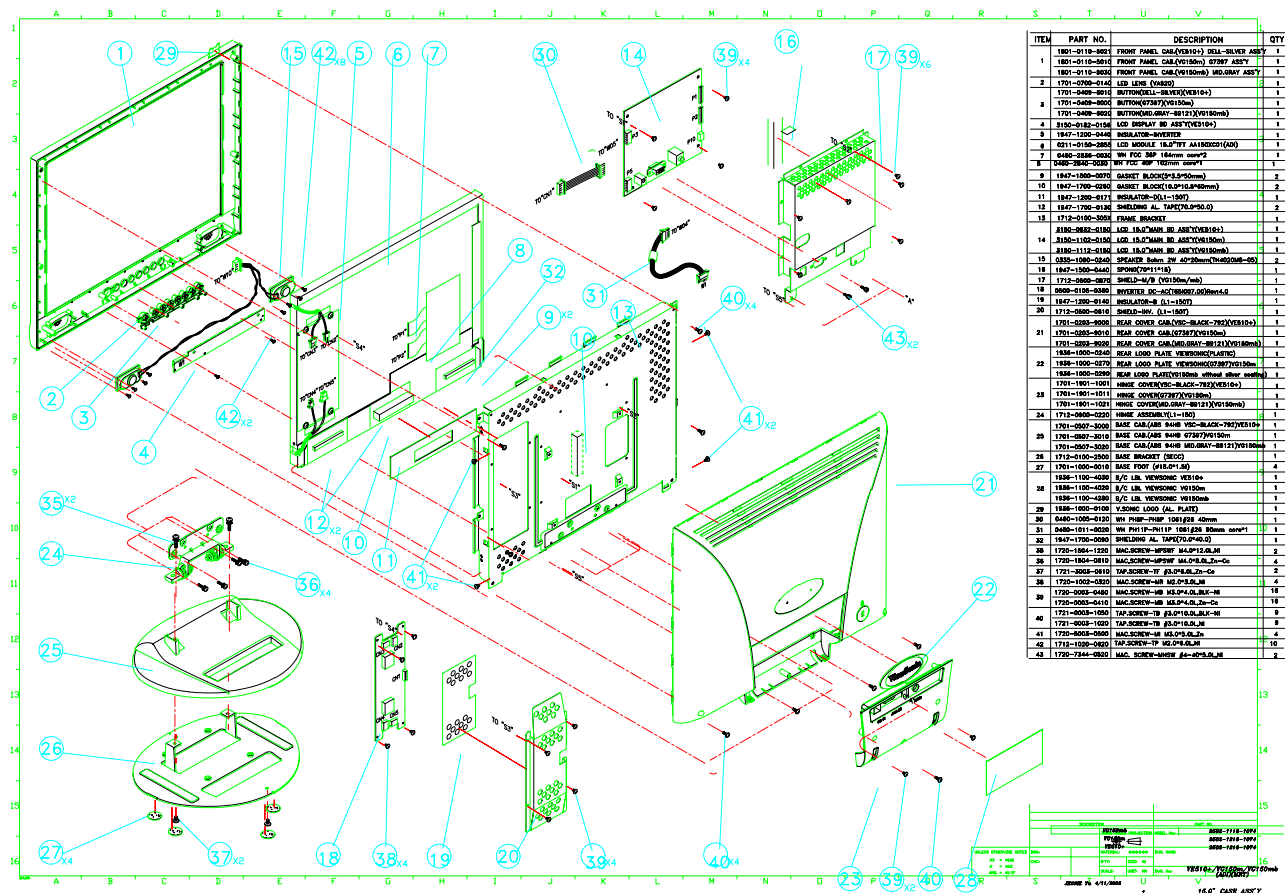
8. PCB Layout











ITEM	PART NO.	DESCRIPTION	QTY
1	1801-0110-0001	FRONT PANEL CAB(V8100) DELL-SILVER ASSY	1
1	1801-0110-0010	FRONT PANEL CAB(V8100) 07897 ASSY	1
1	1801-0110-0002	FRONT PANEL CAB(V8100) MIDDLEWAY ASSY	1
2	1701-0700-0140	LED LENS (0480)	2
1	1701-0400-0010	BUTTON/HELL-SILVER(V8100)	1
1	1701-0400-0002	BUTTON/HELL(V8100)	1
1	1701-0400-0001	BUTTON/HELL-GRAY-88121(V8100)	1
4	3100-0102-0104	LED DISPLAY HD ASSY(V8100)	1
1	1847-1700-0440	INSULATOR-KEYTER	1
6	0211-0100-0002	W/ FCC SWP (8mm) assy#2	1
7	0400-0000-0000	W/ FCC SWP (8mm) assy#1	1
8	0400-0000-0000	W/ FCC SWP (8mm) assy#1	1
9	1847-1700-0070	GASKET BLOC(3.15*52mm)	2
10	1847-1700-0280	GASKET BLOC(10.15*52mm)	2
11	1847-1700-0170	INSULATOR-DLL(1-100)	4
12	1847-1700-0130	SHIELDING AL. TAP(7*6*50.0)	2
13	1712-0000-0000	FRAME BRACKET	1
14	2100-0000-0100	LOC. 15.0*15.0MM BR. ASSY(V8100)	1
14	3100-1100-0100	LOC. 15.0*15.0MM BR. ASSY(V8100)	1
15	0100-1100-0100	LOC. 15.0*15.0MM BR. ASSY(V8100)	1
15	0300-1000-0040	SPONGE BLOC. 20.0*20.0*10.0	2
16	1847-1700-0440	SPONGE COP(11*13)	1
17	1712-0000-0070	SHIELDING AL. TAP(7*6*50.0)	1
18	0600-0100-0000	INVERTER DC-AC(80007.00)Hent.0	1
18	1847-1700-0100	INSULATOR-B (LL-100)	1
19	1712-0000-0000	SHIELDING AL. TAP(7*6*50.0)	1
21	1701-0000-0000	REAR COVER CAB(V8100) BLACK-780(V8100)	1
21	1701-0000-0010	REAR COVER CAB(V8100) WHITE-780(V8100)	1
22	1830-1000-0340	REAR LOOD PLATE V8100(V8100)	1
22	1830-1000-0370	REAR LOOD PLATE V8100(V8100)	1
22	1830-1000-0380	REAR LOOD PLATE V8100(V8100)	1
23	1701-1001-1001	REAR COVER V8100(V8100)	1
23	1701-1001-1011	REAR COVER V8100(V8100)	1
23	1701-1001-1021	REAR COVER V8100(V8100)	1
24	1712-0000-0000	FRAME BRACKET	1
24	1701-0000-0000	REAR COVER CAB(V8100) BLACK-780(V8100)	1
25	1701-0000-0010	REAR COVER CAB(V8100) WHITE-780(V8100)	1
26	1701-0000-0000	REAR COVER CAB(V8100) BLACK-780(V8100)	1
27	1701-0000-0010	REAR COVER CAB(V8100) WHITE-780(V8100)	1
28	1830-1000-0100	V.SOUND LOOD (AL. PLATE)	1
28	1830-1000-0200	S/C LB. V8100(V8100)	1
28	1830-1000-0300	S/C LB. V8100(V8100)	1
29	0400-1000-0100	W/ PHIP-PH1P (101) 25mm	1
30	0400-1011-0020	W/ PHIP-PH1P (101) 25mm	1
31	1847-1700-0000	SHIELDING AL. TAP(7*6*50.0)	1
32	1701-1001-1000	MAC.SCREW-WP8W M2.0*10.0	2
36	1701-1001-0010	MAC.SCREW-WP8W M2.0*10.0	4
37	1701-1001-0010	MAC.SCREW-WP8W M2.0*10.0	2
38	1701-1001-0010	MAC.SCREW-WP8W M2.0*10.0	4
39	1701-1001-0010	MAC.SCREW-WP8W M2.0*10.0	4
40	1701-1001-0010	MAC.SCREW-WP8W M2.0*10.0	4
41	1701-1001-0010	MAC.SCREW-WP8W M2.0*10.0	4
42	1701-1001-0010	MAC.SCREW-WP8W M2.0*10.0	4
43	1701-1001-0010	MAC.SCREW-WP8W M2.0*10.0	10

Mechanical Parts List

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	QTY
1	C-FP-0301-0874	FRONT PANEL CAB-(VE510+) DELL-SILVER ASS'Y	1801-0110-5021	1
2	C-FP-0301-0875	FRONT PANEL CAB-(VG150M) G7397 ASS'Y	1801-0110-5010	1
3	PL-BT-0706-0123	BUTTON (DELL-SILVER)	1701-0409-6010	1
3	PL-BT-0706-0122	BUTTON (G7397) (VG150M)	1701-0409-6000	1
3	PL-BT-0706-0124	BUTTON (MID.GRAY-89121) (VG150MB)	1701-0409-6020	1
4	B-CB-0206-0140	LCD DISPLAY BD ASS'Y	3150-0182-0156	1
5	B-SB-0221-0474	INSULATOR-INVERTER	1947-1200-0440	1
6	M-LCD-0826-0105	LCD MODULE 15.0" TFT AA150XC01(ADI)	0211-0150-2855	1
7	M-MS-0808-7663	WH FCC 36P 164MM CORE*2	0450-2836-0030	1
8	M-MS-0808-7665	WH FCC 40P 102MM CORE*1	0460-2840-0030	1
9	M-MS-0808-8069	GASKET BLOCK (5*3.5*50MM)	1947-1800-0070	2
10	M-MS-0808-6036	GASKET BLOCK (10.0*10.5*60MM)	1947-1700-0260	2
11	M-MS-0808-8068	INSULATOR-D (L1-150T)	1947-1200-0171	1
12	M-MS-0808-6035	SHIELDING AL. TAPE (70.0*50.0)	1947-1700-0130	2
13	M-MS-0808-7666	FRAME BRACKET	1712-0100-305X	1
14	B-MB-0201-0676	LCD 15.0" MAIN BD ASS'Y	3150-0932-0150	1
14	B-MB-0201-0677	LCD 15.0" MAIN BD ASS'Y (VG150M)	3150-1102-0150	1
14	B-MB-0201-0724	LCD 15.0" MAIN BD ASS'Y (VG150MB)	3150-1112-0150	1
15	E-SK-0412-0051	SPEAKER 8OHM 2W 40*20MM (TH4020M8-05)	0335-1080-0240	2
16	M-MS-0808-7669	SPONG (70*11*15)	1947-1500-0440	1
17	M-MS-0808-7667	SHIELD-M/B (VG150M/MB)	1712-0500-0870	1
18	B-SB-0221-0445	INVERTER DC-AC (T651007.00) REV:4.0	0500-0105-0360	1
19	M-MS-0808-8067	INSULATOR-B (L1-150T)	1947-1200-0140	1
20	M-MS-0808-8062	SHIELD-INV. (V1-150T)	1712-0500-0610	1
21	C-BC-0302-0385	REAR COVER CAB. (VSC-BLACK-792)	1701-0203-9000	1
21	C-BC-0302-0421	REAR COVER CAB. (G7397) (VG150M)	1701-0203-9010	1
21	C-BC-0302-0422	REAR COVER CAB.(MID.GRAY-89121) (VG150MB)	1701-0203-9020	1
22	M-MS-0808-8065	REAR LOGO PLATE VIEWSONIC (PLASTIC)	1936-1000-0240	1
22	M-MS-0808-7668	REAR LOGO PLATE VIEWSONIC (G7397) VG150M	1936-1000-0270	1
22	M-MS-0808-8349	REAR LOGO PLATE (VG150MB WITHOUT SILVER COATIN)	1936-1000-0290	1
23	M-CV-0830-2365	HINGE COVER (VSC-BLACK-792)	1701-1901-1001	1
23	M-CV-0830-2366	HING COVER (G7397) (VG150M)	1701-1901-1011	1
23	M-CV-0830-2367	HINGE COVER (MID.GRAY-89121) (VG150MB)	1701-1901-1021	1
24	M-MS-0808-7910	HINGE ASSEMBLY (L1-150)	1712-0900-0220	1
25	PL-PS-0715-0155	BASE CAB. (ABS 94HB VSC-BLACK-792)	1701-0507-3000	1
25	PL-PS-0715-0152	BASE CAB. (ABS 94HB G7397) VG150M	1701-0507-3010	1
25	PL-PS-0715-0174	BASE CAB. (ABS 94HB MID.GRAY-98121) VG150MB	1701-0507-3020	1
26	M-MS-0808-7909	BASE BRACKET (SECC)	1712-0100-2500	1
27	PL-PD-0714-0005	BASE FOOT (18.0*1.5)	1701-1000-0010	4
28	M-LB-0813-0742	B/C LBL VIEWSONIC	1936-1100-4030	1
28	M-LB-0813-0741	B/C LBL VIEWSONIC VG150M	1936-1100-4020	1
28	M-LB-0813-0743	B/C LBL VIEWSONIC VG150MB	1936-1100-4280	1
29	M-MS-0808-4677	V.SONIC LOGO (AL. PLATE)	1936-1000-0100	1
30	M-MS-0808-7906	WH PH5P-PH5- 1061#26 40MM	0460-1005-0120	1
31	M-MS-0808-7664	WH PH11P-PH11P 1061#26 90MM CORE*1	0460-1011-0020	1
32	M-MS-0808-4725	SHIELDING AL. TAPE (70.0*40.0)	1947-1700-0090	1
35	M-SCW-0824-0363	MAC. SCREW-MPSWF M4.0*12.0I, NI	1720-1504-1220	2
36	M-SCW-0824-0626	MAC. SCREW-MPSWF M4.0*8.0I, ZN-CC	1720-1504-0810	4
37	M-SCW-0824-0625	TAP. SCREW-TF #3.0*6.0L, ZN-CC	1721-3003-0610	2
38	M-SCW-0824-0648	MAC. SCREW-MR M2.0*3.0L, NI	1720-1002-0320	4
39	M-SCW-0824-0553	MAC. SCREW-MB M3.0*4.0L, BLK-NI	1720-0003-0450	16
39	M-SCW-0824-0362	MAC. SCREW-MB M3.0*4.0L, ZN-CC	1720-0003-0410	16
40	M-SCW-0824-0556	TAP. SCREW-TB #3.0*10.0L, BLK-NI	1721-0003-1050	9
40	M-SCW-0824-0366	TAP. SCREW-TB #3.0*10.0L, NI	1721-0003-1020	9
41	M-SCW-0824-0649	MAC. SCREW-MI M3.0*5.0L, ZN	1720-5003-0500	4
42	M-SCW-0824-0723	TAP. SCREW-TP M2.0*6.0L, NI	1712-1020-0620	10
43	M-SCW-0824-0724	MAC. SCREW-MHSW #4-40*5.0L, NI	1720-7344-0520	2

10. Recommended Spare Parts List

VG150m/mb

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION
1	E-SK-0412-0051	SPEAKER 8ohm 2W 40*20mm (TH4020M8-05) *2	0335-1080-0240	
2	M-MS-0808-8184	WH PH4P 1061#26 110/310mm	0460-1004-0101	
3	M-MS-0808-7906	WH PH5P-PH5P 1061#26 40mm	0460-1005-0120	
4	M-MS-0808-7664	WH PH11P-PH11P 1061#26 90mm core*1	0460-1011-0020	
5	M-MS-0808-7673	WH FFC 36P 164mm core*2 (ADI)	0460-2836-0030	
6	M-MS-0808-7665	WH FFC 40P 102mm core*1 (ADI)	0460-2840-0030	
7	B-SB-0221-0445	INVERTER DC-AC (T651007.00) REV:4	0500-0105-0360	
8	P-FM-0602-0720	EPS FORM-A	1925-1000-1040	
9	P-FM-0602-0721	EPS FORM-B	1925-1000-1050	
10	B-SB-0221-0473	15" LCD DISPLAY BD ASS'Y VE510+ (MRT)	3150-0182-0156	
11	E-D-0403-1740	DUAL SURFACE DIODES BAV70 SMD (SOT-23)	0390-5001-8293	D19
12	E-D-0403-1743	SCHOTTKY DIODE SB340 T	0390-6000-9172	D4
13	E-FS-0410-0084	PICO FUSE 125V 3.5A 3*7MM (R25103.5)	0182-1352-3703	FUSE1
14	E-L-0407-1057	DRUM CORE L:70UH 2A(10*16)	0361-1000-0120	L17
15	E-Q-0402-1578	MOSFET IRLML6402 P-CH SOT-23	0420-2000-6601	Q1
16	E-Q-0402-1577	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	0420-1002-4621	Q10
17	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q11
18	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q2
19	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q4
20	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q6
21	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q7
22	E-Q-0402-1577	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	0420-1002-4621	Q8
23	E-Q-0402-1577	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	0420-1002-4621	Q9
24	E-IC-0401-2642	IC MASCOT V PQFP 160PIN	0430-5007-1976	U1
25	E-IC-0401-2644	IC AIC1084-33CE SMD 3PIN TO-252	0430-6003-0069	U11
26	E-IC-0401-1982	IC AT24C02N-10SC-2.7 SMD 8PIN	0430-3001-1011	U14
27	E-IC-0401-2346	IC AMC431 SMD(SOT-23) 3PIN	0430-6000-4051	U2
28	E-IC-0401-2648	IC MAX810LTR 3PIN SOT-23	0430-7010-9058	U3
29	E-IC-0401-2521	IC 74LCX14 SMD 14PIN(SOIC)	0430-1004-4035	U4
30	E-IC-0401-2373	IC LM2596S-5.0 TO-263 5PIN	0430-6001-7204	U5
31	E-IC-0401-2643	IC SM5964C40J 44PIN PLCC	0430-5007-5578	U6
32	E-IC-0401-2522	IC AN7512 DIP 16PIN	0430-4007-2168	U7
33	E-IC-0401-1888	IC 24LC08B/P DIP 8PIN	0430-3000-4117	U8
34	E-T-0408-0465	X'TAL 12MHZ 49/US CL:30PF	0280-1200-0015	Y1
35	E-T-0408-0465	X'TAL 12MHZ 49/US CL:30PF	0280-1200-0015	Y2

VG150m

ITEM	DESCRIPTION	PART NO.	LOCATION
1	A-PC-0106-0127	POWER CORD 6FT 220V VDE	0320-3400-0010
2	A-PC-0106-0043	POWER CORD 6FT 110V UL/CSA AL	0320-4400-0010
3	A-VC-0101-0236	S.CABLE 1800mm 15(3R-3R) PC99 (+PIN9)	0321-0400-0140
4	A-AU-0120-0025	A.CABLE 3.5@ *2 2547#28 1800mm (WHITE)PC99	0322-2400-0050
5	C-FP-0301-0875	FRONT PANEL CAB. (ABS,94HB G7397) (VG150m)	1701-0110-5010
6	C-BC-0302-0421	REAR COVER CAB. (ABS,94HB G7397) (VG150m)	1701-0203-9010
7	P-BX-0601-0691	CARTON VIEWSONIC VG150m	1925-1200-3591
8	A-CD-VG150M	CD WIZARD + QSG VIEWSONIC VG150m	1925-1300-3591
9	M-MS-0808-4721	TCO99 ECO DOCUMENT	1925-1400-0090
10	B-MB-0201-0725	LCD MAIN BD ASS'Y VG150m(ADI)(MRT)	3150-1102-0150

VG150mb

ITEM	DESCRIPTION	PART NO.	LOCATION
1	A-PC-0106-0084	POWER CORD 6FT 220V VDE	0320-3000-0010
2	A-PC-0106-0039	POWER CORD 6FT 110V UL/CSA AL	0320-4000-0010
3	A-VC-0101-0226	S.CABLE 1800mm 15(3R-3R) PC99 +PIN9 (BLK)	0321-0000-0040
4	A-RCA-0113-0016	A.CABLE 3.5@* 2547#28 1800mm PC99 (BLK)	0322-2000-0010
5	C-BC-0302-0422	REAR COVER (ABS,MID.GRAY-89121) (VG150mb)	1701-0203-9020
6	C-FP-0301-0876	FRONT PANEL (ABS,MID.GRAY)(VG150mb) ASS'Y	1801-0110-5030
7	P-BX-0601-0692	CARTON VIEWSONIC VG150mb (SHARP)	1925-1200-3860
8	A-CD-VG150MB	CD WIZARD + QSG VIEWSONIC VG150mb (SHARP)	1925-1300-3861
9	M-MS-0808-2852	TCO'95 BOOKLET	1925-1400-0010
10	B-MB-0201-0724	LCD MAIN BD ASS'Y VG150mb(ADI)(MRT)	3150-1112-0150

11. Complete Parts List

2502-1316-1074 LCD MONITOR 15.0" VG150m (ABS,G7397)(ADI)(MRT)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	C-BS-0303-0355	LCD BASE ASS'Y (ABS,94HB G7397)	3150-0452-0334		1	
2		PACKING ASS'Y VG150m (SHARP)	3150-1682-0312		1	
3		PANEL ASS'Y VG150m (ABS 94HB,G7397)(ADI)(MRT)	3150-2422-0331		1	

3150-0452-0334 LCD BASE ASS'Y (ABS,94HB G7397)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	PL-PS-0715-0152	BASE CAB. (ABS,94HB G7397) (VG150m)	1701-0507-3010		1	
2	PL-PD-0714-0005	BASE FOOT (18.0*1.5T)	1701-1000-0010		4	
3	M-MS-0808-7909	BASE BRACKET (SECC)	1712-0100-2500		1	
4	M-MS-0808-7910	HINGE ASS'Y (L1-150T)	1712-0900-0220		1	
5	M-SCW-0824-0363	MAC. SCREW-MPSWF M4.0*12.0L,NI	1720-1504-1220		2	
6	M-SCW-0824-0625	TAP. SCREW-TF #3.0*6.0L, Zn-Cc	1721-3003-0610		2	

3150-1682-0312 PACKING ASS'Y VG150m (SHARP)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	A-AD-0114-0160	AC TO DC ADAPTOR (LSE9901B1250 WHITE)	0300-7012-4204		1	
2	A-PC-0106-0127	POWER CORD 6FT 220V VDE	0320-3400-0010		1	
3	A-PC-0106-0043	POWER CORD 6FT 110V UL/CSA AL	0320-4400-0010		1	
4	A-VC-0101-0236	S.CABLE 1800mm 15(3R-3R) 3+6C/PC99 (+PIN9)	0321-0400-0140		1	
5	A-AU-0120-0025	A.CABLE 3.5 *2 2547#28 1800mm CORE*2	0322-2400-0050		1	
6	P-FM-0602-0720	EPS FORM-A	1925-1000-1040		1	
7	P-FM-0602-0721	EPS FORM-B	1925-1000-1050		1	
8		PE BAG (180W*290L*0.04t)(PE-LD)(ACC.-1)	1925-1100-0280		3	
9		PE BAG (450W*600L*0.04t)(PE-LD)(15")	1925-1100-0310		1	
10	P-BX-0601-0691	CARTON VIEWSONIC VG150m (FOR SHARP)	1925-1200-3591		1	
11	A-CD-VG150M	CD WIZARD + QSG VIEWSONIC VG150m	1925-1300-3591		1	
12	M-MS-0808-8063	HANDLE-A FOR CARTON (L1-150T)	1925-1700-0030		1	
13	M-MS-0808-8064	HANDLE-B FOR CARTON (L1-150T)	1925-1700-0040		1	
14		B/C LBL VIEWSONIC VG150m	1936-1100-4021		1	
15	M-LB-0813-0679	BAR CODE LBL SILVER 40*40m/m	1936-1400-0360		1	
16		BASE LBL FOR VE510+ / VG150m	1936-1600-0560		1	

3150-2422-0331 PANEL ASS'Y VG150m (ABS 94HB,G7397)(ADI)(MRT)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	M-LCD-0826-0105	LCD MODULE 15.0" TFT AA150XC01(ADI)	0211-0150-2855		1	
2	E-SK-0412-0051	SPEAKER 8ohm 2W 40*20mm (TH4020M8-05)	0335-1080-0240		2	
3	M-MS-0808-8184	WH PH4P 1061#26 110/310mm	0460-1004-0101		1	
4	M-MS-0808-7906	WH PH5P-PH5P 1061#26 40mm	0460-1005-0120		1	
5	M-MS-0808-7664	WH PH11P-PH11P 1061#26 90mm core*1	0460-1011-0020		1	
6	M-MS-0808-7673	WH FFC 36P 164mm core*2 (ADI)	0460-2836-0030		1	
7	M-MS-0808-7665	WH FFC 40P 102mm core*1 (ADI)	0460-2840-0030		1	
8	B-SB-0221-0486	INVERTER DC-AC (TAD697) REV:D SHARP+ADI	0500-0101-0360		1	
9	C-FP-0301-0875	FRONT PANEL CAB. (ABS,94HB G7397) (VG150m)	1701-0110-5010		1	
10	C-BC-0302-0421	REAR COVER CAB. (ABS,94HB G7397) (VG150m)	1701-0203-9010		1	
11	PL-BT-0706-0122	BUTTON (ABS,94HB G7397) (VG150m)	1701-0409-6000		1	
12	M-MS-0808-8059	LED LENS	1701-0700-0140		1	
13	M-CV-0830-2366	HING COVER (ABS,94HB G7397) (VG150m)	1701-1901-1011		1	
14		FRAME BRACKET (SECC) REV:01	1712-0100-3051		1	
15	M-MS-0808-8062	SHIELD-INV. (L1-150T)	1712-0500-0610		1	
16	M-MS-0808-7667	SHIELD-M/B (VG150m/mb)	1712-0500-0870		1	
17	M-SCW-0824-0362	MAC. SCREW-MB M3.0*4.0L,Zn-Cc	1720-0003-0410		16	
18	M-SCW-0824-0648	MAC. SCREW-MR M2.0*3.0L, Ni	1720-1002-0320		4	
19	M-SCW-0824-0626	MAC. SCREW-MPSWF M4.0*8.0L, Zn-Cc	1720-1504-0810		4	
20	M-SCW-0824-0649	MAC. SCREW-MI M3.0*5.0L,ZN	1720-5003-0500		4	
21	M-SCW-0824-0724	MAC. SCREW-MHSW #4-40*5.0L,Ni	1720-7344-0520		2	
22	M-SCW-0824-0366	TAP. SCREW-TB #3.0*10.0L,NI	1721-0003-1020		9	
23		TAP. SCREW-TP M2.0*6.0L,NI	1721-1020-0620		10	
24	M-MS-0808-4677	V.SONIC LOGO (AL. PLATE)	1936-1000-0100		1	
25	M-MS-0808-7668	REAR LOGO PLATE VIEWSONIC (G7397)	1936-1000-0270		1	
26	M-MS-0808-8067	INSULATOR-B (L1-150T)	1947-1200-0140		1	
27	M-MS-0808-8068	INSULATOR-D (L1-150T)	1947-1200-0171		1	
28		ACETATE CLOTH TAPE 60*125mm	1947-1200-0240		1	
29	B-SB-0221-0474	INSULATOR-INVERTER	1947-1200-0440		1	
30	M-MS-0808-7669	SPONGE (70*11*15)	1947-1500-0440		1	
31	M-MS-0808-4725	SHIELDING AL. TAPE (40.0*70.0)	1947-1700-0090		1	
32	M-MS-0808-6035	SHIELDING AL.TAPE (70.0*50.0)	1947-1700-0130		2	
33	M-MS-0808-6036	GASKET BLOCK (10.0*10.5*60.0mm)	1947-1700-0260		2	
34	M-MS-0808-8069	GASKET BLOCK (5*3.5*50mm)	1947-1800-0070		2	
35		HEAT PATH (22.0L*8.0W*2.0t)	1947-1900-0060		1	
36	B-SB-0221-0473	15" LCD DISPLAY BD ASS'Y (MRT)	3150-0182-0156		1	
37	B-MB-0201-0725	LCD MAIN BD ASS'Y VG150m(ADI)(MRT)	3150-1102-0150		1	

B-SB-0221-0473 3150-0182-0156 15" LCD DISPLAY BD ASS'Y VE510+ (MRT)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	M-MS-0808-8058	LED L-3WYGW 3	0440-5000-0030	LED1	1	
2		PCB DISPLAY BD V0 159.0*18.0*1.6t (VE510+ MRT)	0170-1740-0660	PCB01	1	
3		WAFER 2.00MM 11P 90' KINK	0451-2000-1164	P1	1	
4	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW1	1	
5	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW2	1	
6	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW3	1	
7	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW4	1	
8	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW5	1	
9	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW6	1	
10	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW7	1	
11	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW8	1	

B-MB-0201-0725

3150-1102-0150 LCD MAIN BD ASS'Y VG150m(ADI)(MRT)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	E-C-0404-4794	E/C GEN. 330UF 16V 105' 8*9mm F (SX TYPE)	0101-0331-1211	C110	1	
2		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C15	1	
3		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C29	1	
4		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C37	1	
5		E/C GEN. 10UF 16V 105' 4*7mm F (SX TYPE)	0101-0100-1211	C47	1	
6		E/C GEN. 10UF 16V 105' 4*7mm F (SX TYPE)	0101-0100-1211	C48	1	
7	E-C-0404-4794	E/C GEN. 330UF 16V 105' 8*9mm F (SX TYPE)	0101-0331-1211	C49	1	
8		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C57	1	
9		E/C GEN. 330UF 25V 105' N-F	0101-1331-1310	C66	1	
10		E/C GEN. 330UF 25V 105' N-F	0101-1331-1310	C67	1	
11	E-C-0404-4794	E/C GEN. 330UF 16V 105' 8*9mm F (SX TYPE)	0101-0331-1211	C71	1	
12	E-C-0404-4794	E/C GEN. 330UF 16V 105' 8*9mm F (SX TYPE)	0101-0331-1211	C73	1	
13		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C74	1	
14		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C76	1	
15		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C90	1	
16	E-D-0403-1743	SCHOTTKY DIODE SB340 T	0390-6000-9172	D4	1	
17	E-FS-0410-0084	PICO FUSE 125V 3.5A 3*7MM (R25103.5)	0182-1352-3703	FUSE1	1	
18	E-L-0407-1057	DRUM CORE L:70UH 2A(10*16)	0361-1000-0120	L17	1	
19	E-L-0407-0547	FERRITE CORE RH 3.5X6X1.0(W)X2	0370-0000-1010	L7	1	
20	M-MS-0808-7905	CONN. B TO FPC IL-FHR 36P (IL-FHR-F36S-HF)	0303-1000-0363	P1	1	
21	M-MS-0808-8055	CONN. B TO FPC FH12-36S-0.5SH 36PIN	0303-1000-0364			CS
22	M-MS-0808-2118	WAFER 2.00MM 4P 90' KINK	0451-2000-0464	P10	1	
23	M-MS-0808-8056	CONN. B TO FPC IL-FHR 40P (IL-FHR-F40S-HF)	0303-1000-0403	P2	1	
24	M-MS-0808-8057	CONN. B TO FPC FH12-40S-0.5SH 40PIN	0303-1000-0404			CS
25	M-MS-0808-1765	WAFER 2.00MM 5P 90' KINK	0451-2000-0564	P3	1	
26		WAFER 2.00MM 11P 90' KINK	0451-2000-1164	P5	1	
27	M-MS-0808-8054	DC POWER JACK 180 °	0302-1360-0026	P6	1	
28		PHONE JACK 3.5 7PIN 180' (PC99) +SHIELDING	0302-0350-0070	P7	1	
29	M-MS-0808-8053	D-SUB FEMALE 180' 15P 3ROW 5mm (PC99)	0300-1213-3150	P8	1	
30	E-IC-0401-2522	IC AN7512 DIP 16PIN	0430-4007-2168	U7	1	
31	E-IC-0401-1888	IC 24LC08B/P DIP 8PIN	0430-3000-4117	U8	1	
32	E-IC-0401-2513	IC ST24C08 DIP 8PIN	0430-3000-4107			CS
33	E-IC-0401-2514	IC S24C08ADP DIP 8PIN	0430-3000-4147			CS
34	E-IC-0401-2515	IC M24C08-BN6 DIP 8PIN	0430-3000-6107			CS
35	M-MS-0808-0305	IC SOCKET 2.54MM 8PIN	0201-2540-8000	U8S	1	
36	E-T-0408-0465	X'TAL 12MHZ 49/US CL:30PF	0280-1200-0015	Y1	1	
37	E-T-0408-0465	X'TAL 12MHZ 49/US CL:30PF	0280-1200-0015	Y2	1	
38		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP1	1	
39		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP10	1	
40		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP11	1	
41		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP12	1	
42		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP2	1	
43		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP3	1	
44		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP4	1	
45		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP5	1	
46		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP6	1	
47		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP7	1	
48		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP8	1	
49		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP9	1	
50	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C1	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
51	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C10	1	
52		C/M Multi. 33PF 50V NPO 0603	0111-3330-5106	C100	1	
53	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C101	1	
54	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C108	1	
55	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C109	1	
56	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C11	1	
57	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C111	1	
58	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C113	1	
59	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C114	1	
60	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C12	1	
61	E-C-0404-4045	C/M MULTI 0.022UF 50V X7R 0805	0111-3223-5115	C13	1	
62	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y7R 0603	0111-3104-2536	C14	1	
63	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C16	1	
64	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C17	1	
65	E-C-0404-4106	C/M MULTI. 4700PF 50V X7R 0603	0111-3472-5116	C18	1	
66	E-C-0404-3711	C/M MULTI 0.01UF 50V X7R 0603	0111-3103-5116	C19	1	
67	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C2	1	
68	E-C-0404-3711	C/M MULTI 0.01UF 50V X7R 0603	0111-3103-5116	C20	1	
69	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C21	1	
70	E-C-0404-4106	C/M MULTI. 4700PF 50V X7R 0603	0111-3472-5116	C22	1	
71	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C23	1	
72	E-C-0404-4106	C/M MULTI. 4700PF 50V X7R 0603	0111-3472-5116	C24	1	
73	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C25	1	
74	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C26	1	
75		C/M MULTI 5600PF 50V X7R 0805	0111-3562-5115	C27	1	
76		C/M MULTI 150PF 50V NPO 0603	0111-3151-5106	C28	1	
77	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C3	1	
78	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C30	1	
79	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C32	1	
80	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C35	1	
81	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C36	1	
82	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C38	1	
83	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C4	1	
84	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C40	1	
85	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C41	1	
86	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C42	1	
87	E-C-0404-4104	C/M MULTI. 20PF 50V NPO 0603	0111-3200-5106	C43	1	
88	E-C-0404-4104	C/M Multi. 12PF 50V NPO 0603	0111-3120-5106	C44	1	
89		C/M MULTI. 20PF 50V NPO 0603	0111-3200-5106	C45	1	
90	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C5	1	
91	E-C-0404-4230	E/C GEN. 2.2UF 50V RV2 SMD	0101-1229-1504	C50	1	
92	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C51	1	
93	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C52	1	
94	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C54	1	
95	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C55	1	
96	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C56	1	
97	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C6	1	
98	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C65	1	
99	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C68	1	
100	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C69	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
101	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C7	1	
102	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C70	1	
103	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C72	1	
104	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C75	1	
105	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C77	1	
106	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C79	1	
107	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C8	1	
108	E-C-0404-3710	C/M MULTI 1000PF 50V X7R 0603	0111-3102-5116	C80	1	
109	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C81	1	
110	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C83	1	
111	E-C-0404-3713	C/M MULTI. 1.0UF 10V Y5V 0603	0111-3105-1136	C84	1	
112	E-C-0404-3710	C/M MULTI 1000PF 50V X7R 0603	0111-3102-5116	C86	1	
113	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C87	1	
114	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C88	1	
115	E-C-0404-4095	E/C GEN. 47UF 10V RV2 SMD	0101-1470-1104	C89	1	
116	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C9	1	
117	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C91	1	
118	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C94	1	
119	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C95	1	
120		C/M Multi. 33PF 50V NPO 0603	0111-3330-5106	C97	1	
121		DUAL SURFACE DIODES BAV99 SMD (SOT-23)	0390-5001-9293	D16	1	
122		DUAL SURFACE DIODES BAV99 SMD (SOT-23)	0390-5001-9293	D17	1	
123		DUAL SURFACE DIODES BAV99 SMD (SOT-23)	0390-5001-9293	D18	1	
124	E-D-0403-1740	DUAL SURFACE DIODES BAV70 SMD (SOT-23)	0390-5001-8293	D19	1	
125		CHIP BEAD CORE 1.5uH (MLI-201209-1R5K)	0370-0000-6952	L1	1	
126		CHIP BEAD CORE 100ohm (MLB-160808-0100B-N3)	0370-0000-7053	L10	1	
127		CHIP BEAD CORE 100ohm (MLB-160808-0100B-N3)	0370-0000-7053	L11	1	
128	E-R-0405-3162	RES. CF 2.2ohm 1/8W J 0805	0130-2208-1858	L12	1	
129	E-L-0407-1213	CHIP BEAD CORE 30ohm MLB-201209-0030A-N1	0370-0000-3552	L13	1	
130	E-R-0405-3162	RES. CF 2.2ohm 1/8W J 0805	0130-2208-1858	L14	1	
131		CHIP BEAD CORE 0.47uH (MLI-321611-R47M)	0370-0000-6851	L15	1	
132	E-R-0405-3167	RES. CF 0.0ohm 1/8W J 0805	0130-0000-1858	L16	1	
133	E-R-0405-3167	RES. CF 0.0ohm 1/8W J 0805	0130-0000-1858	L18	1	
134		CHIP BEAD CORE 80ohm (MLB-201209-0080P-N2)	0370-0000-6752	L2	1	
135		CHIP BEAD CORE 80ohm (MLB-201209-0080P-N2)	0370-0000-6752	L3	1	
136		CHIP BEAD CORE 100ohm (MLB-160808-0100B-N3)	0370-0000-7053	L9	1	
137	B-MB-0201-0676	PCB MAIN BD 135.0*126.0*1.6t FR4 4M (VE510+ MRT)	0171-2242-0720	PCB01	1	
138	E-Q-0402-1578	MOSFET IRLML6402 P-CH SOT-23	0420-2000-6601	Q1	1	
139	E-Q-0402-1577	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	0420-1002-4621	Q10	1	
140	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q11	1	
141	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
142	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q2	1	
143	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
144	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q4	1	
145	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
146	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q6	1	
147	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
148	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q7	1	
149	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
150	E-Q-0402-1577	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	0420-1002-4621	Q8	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
151	E-Q-0402-1577	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	0420-1002-4621	Q9	1	
152	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP1	1	
153	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP10	1	
154	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP11	1	
155	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP12	1	
156	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP2	1	
157	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP3	1	
158	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP4	1	
159	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP5	1	
160	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP6	1	
161	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP7	1	
162	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP8	1	
163	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP9	1	
164	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R10	1	
165	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R101	1	
166	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R102	1	
167	E-R-0405-4232	RES. CF 1.0Kohm 1/8W J 1206	0130-1001-1859	R103	1	
168	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R105	1	
169	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R106	1	
170	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R107	1	
171	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R108	1	
172	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R109	1	
173	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R11	1	
174	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R112	1	
175	E-R-0405-6277	RES. CF 1.0Kohm 1/10W J 0603	0130-1001-0055	R113	1	
176	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R12	1	
177	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R125	1	
178	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R126	1	
179	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R127	1	
180	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R128	1	
181	E-R-0405-6293	RES. CF 150ohm 1/10W J 0603	0130-1500-0055	R129	1	
182	E-R-0405-6611	RES. CF 270Kohm 1/10W J 0603	0130-2703-0055	R13	1	
183	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R131	1	
184	E-R-0405-6278	RES. CF 10Kohm 1/10W J 0603	0130-1002-0055	R133	1	
185	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R136	1	
186	E-R-0405-6278	RES. CF 10Kohm 1/10W J 0603	0130-1002-0055	R138	1	
187	E-R-0405-6293	RES. CF 150ohm 1/10W J 0603	0130-1500-0055	R139	1	
188		RES. CF 820ohm 1/10W J 0603	0130-8200-0055	R14	1	
189	E-R-0405-6283	RES. CF 22Kohm 1/10W J 0603	0130-2202-0055	R145	1	
190	E-R-0405-6277	RES. CF 1.0Kohm 1/10W J 0603	0130-1001-0055	R147	1	
191	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R15	1	
192	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R16	1	
193	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R17	1	
194	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R18	1	
195	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R19	1	
196	E-R-0405-6282	RES. CF 2.2Kohm 1/10W J 0603	0130-2201-0055	R20	1	
197	E-R-0405-6298	RES. CF 820Kohm 1/10Wohm J 0603	0130-8203-0055	R21	1	
198		RES. CF 68Kohm 1/10W J 0603	0130-6802-0055	R22	1	
199		RES. CF 820ohm 1/10W J 0603	0130-8200-0055	R23	1	
200		RES. CF 430ohm 1/10W J 0603	0130-4300-0055	R24	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
201		RES. CF 430ohm 1/10W J 0603	0130-4300-0055	R25	1	
202	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R26	1	
203	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R32	1	
204	E-L-0407-1215	CHIP BEAD CORE 60ohm MLB-160808-0060A-N2	0370-0000-4453	R33	1	
205	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R34	1	
206		RES. CF 1.0Mohm 1/10W J 0603	0130-1004-0055	R35	1	
207	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R36	1	
208	E-R-0405-6291	RES. CF 75ohm1/10W J 0603	0130-7509-0055	R37	1	
209	E-R-0405-6291	RES. CF 75ohm1/10W J 0603	0130-7509-0055	R38	1	
210	E-R-0405-6291	RES. CF 75ohm1/10W J 0603	0130-7509-0055	R39	1	
211	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R4	1	
212	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R43	1	
213	E-R-0405-6276	RES. CF 100ohm 1/10W J 0603	0130-1000-0055	R44	1	
214		RES. CF 1.0Mohm 1/10W J 0603	0130-1004-0055	R45	1	
215	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R46	1	
216	E-R-0405-6276	RES. CF 100ohm 1/10W J 0603	0130-1000-0055	R47	1	
217	E-R-0405-6285	RES. CF 3.3Kohm 1/10W J 0603	0130-3301-0055	R49	1	
218	E-R-0405-3167	RES. CF 0.0ohm 1/8W J 0805	0130-0000-1858	R50	1	
219	E-R-0405-6277	RES. CF 1.0Kohm 1/10W J 0603	0130-1001-0055	R51	1	
220	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R53	1	
221	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R56	1	
222	E-R-0405-6278	RES. CF 10Kohm 1/10W J 0603	0130-1002-0055	R59	1	
223	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R60	1	
224	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R61	1	
225		RES. CF 470Kohm 1/10Wohm J 0603	0130-4703-0055	R63	1	
226	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R65	1	
227	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R66	1	
228	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R68	1	
229	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R69	1	
230	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R7	1	
231	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R70	1	
232	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R71	1	
233	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R72	1	
234	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R73	1	
235	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R74	1	
236	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R75	1	
237	E-R-0405-6278	RES. CF 10Kohm 1/10W J 0603	0130-1002-0055	R76	1	
238	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R77	1	
239	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R8	1	
240	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R82	1	
241	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R83	1	
242	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R84	1	
243	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R85	1	
244	E-R-0405-6277	RES. CF 1.0Kohm 1/10W J 0603	0130-1001-0055	R86	1	
245	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R88	1	
246	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R89	1	
247	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R90	1	
248	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R91	1	
249	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R92	1	
250	E-R-0405-6280	RES. CF 12Kohm 1/10W J 0603	0130-1202-0055	R96	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
251	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R98	1	
252	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R99	1	
253	E-IC-0401-2642	IC MASCOT V PQFP 160PIN	0430-5007-1976	U1	1	
254	E-IC-0401-2644	IC AIC1084-33CE SMD 3PIN TO-252	0430-6003-0069	U11	1	
255	E-IC-0401-1982	IC AT24C02N-10SC-2.7 SMD 8PIN	0430-3001-1011	U14	1	
256	E-IC-0401-2346	IC AMC431 SMD(SOT-23) 3PIN	0430-6000-4051	U2	1	
257	E-IC-0401-2648	IC MAX810LTR 3PIN SOT-23	0430-7010-9058	U3	1	
258		IC LM810M3-4.63 3PIN SOT-23-3	0430-7010-9004			CS
259	E-IC-0401-2521	IC 74LCX14 SMD 14PIN(SOIC)	0430-1004-4035	U4	1	
260	E-IC-0401-2373	IC LM2596S-5.0 TO-263 5PIN	0430-6001-7204	U5	1	
261	E-IC-0401-2643	IC SM5964C40J 44PIN PLCC	0430-5007-5578	U6	1	
262		PLCC SOCKET 44PIN SMD	0204-1274-4012	U6S	1	
263		SOFTWARE VG150m(ADI) CPU:VG15mAMM05.hex	0990-4000-8102	U6X	1	
264		ZENER RLZ5.6B 5.45V~5.73V 1/2W SMD	0400-0541-2012	ZD1	1	
265		ZENER RLZ5.6B 5.45V~5.73V 1/2W SMD	0400-0541-2012	ZD2	1	
266		ZENER RLZ5.6B 5.45V~5.73V 1/2W SMD	0400-0541-2012	ZD3	1	
267		ZENER RLZ5.6B 5.45V~5.73V 1/2W SMD	0400-0541-2012	ZD4	1	

2502-1116-1074 LCD MONITOR 15.0" VG150mb(ABS,MID.GRAY)(ADI)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	C-BS-0303-0356	BASE ASS'Y (ABS 94HB,MID.GRAY-89121)	3150-0532-0334		1	
2		PACKING ASS'Y VG150mb (SHARP)	3150-1622-0312		1	
3		PANEL VG150mb (ABS,MID.GRAY-89121)(ADI)(MRT)	3150-2402-0331		1	

C-BS-0303-0356 3150-0532-0334 BASE ASS'Y (ABS 94HB,MID.GRAY-89121)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	PL-PS-0715-0174	BASE CAB. (ABS,94HB MID.GRAY-89121) (VG150mb)	1701-0507-3020		1	
2	PL-PD-0714-0005	BASE FOOT (18.0*1.5T)	1701-1000-0010		4	
3	M-MS-0808-7909	BASE BRACKET (SECC)	1712-0100-2500		1	
4	M-MS-0808-7910	HINGE ASS'Y (L1-150T)	1712-0900-0220		1	
5	M-SCW-0824-0363	MAC. SCREW-MPSWF M4.0*12.0L,NI	1720-1504-1220		2	
6	M-SCW-0824-0625	TAP. SCREW-TF #3.0*6.0L, Zn-Cc	1721-3003-0610		2	

3150-1622-0312 PACKING ASS'Y VG150mb (SHARP)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	A-AD-0114-0159	AC TO DC ADAPTOR (LSE9901B1250 BLK V.SONIC) PSE	0300-7012-4234		1	
2	A-AD-0114-0170	AC TO DC ADAPTOR 12V/4.0A(UP04821120B BL V.SONIC)	0300-7012-4533			CS
3	A-AD-0114-0171	AC TO DC ADAPTOR 12V/4.0A (0217B1248 BLK V.SONIC)	0300-7012-4554			CS
4	A-PC-0106-0084	POWER CORD 6FT 220V VDE	0320-3000-0010		1	
5	A-PC-0106-0039	POWER CORD 6FT 110V UL/CSA AL	0320-4000-0010		1	
6	A-VC-0101-0226	S.CABLE 1800mm 15(3R-3R) 3+6C/PC99 +PIN9 (BLK)	0321-0000-0040		1	
7	A-RCA-0113-0016	A.CABLE 3.5@* 2547#28 1800mm PC99 (BLK)	0322-2000-0010		1	
8	P-FM-0602-0720	EPS FORM-A	1925-1000-1040		1	
9	P-FM-0602-0721	EPS FORM-B	1925-1000-1050		1	
10		PE BAG (180W*290L*0.04t)(PE-LD)(ACC.-1)	1925-1100-0280		3	
11		PE BAG (450W*600L*0.04t)(PE-LD)(15")	1925-1100-0310		1	
12	P-BX-0601-0692	CARTON VIEWSONIC VG150mb (SHARP)	1925-1200-3860		1	
13	A-CD-VG150MB	CD WIZARD + QSG VIEWSONIC VG150mb	1925-1300-3861		1	
14	M-MS-0808-8063	HANDLE-A FOR CARTON (L1-150T)	1925-1700-0030		1	
15	M-MS-0808-8064	HANDLE-B FOR CARTON (L1-150T)	1925-1700-0040		1	
16		B/C LBL VIEWSONIC VG150mb	1936-1100-4281		1	
17	M-LB-0813-0679	BAR CODE LBL SILVER 40*40m/m	1936-1400-0360		1	
18		BASE LBL FOR VE510+ / VG150m	1936-1600-0560		1	

3150-2402-0331 PANEL ASS'Y VG150mb (ABS,MID.GRAY-89121)(ADI)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	M-LCD-0826-0105	LCD MODULE 15.0" TFT AA150XC01(ADI)	0211-0150-2855		1	
2	E-SK-0412-0051	SPEAKER 8ohm 2W 40*20mm (TH4020M8-05)	0335-1080-0240		2	
3	M-MS-0808-8184	WH PH4P 1061#26 110/310mm	0460-1004-0101		1	
4	M-MS-0808-7906	WH PH5P-PH5P 1061#26 40mm	0460-1005-0120		1	
5	M-MS-0808-7664	WH PH11P-PH11P 1061#26 90mm core*1	0460-1011-0020		1	
6	M-MS-0808-7673	WH FFC 36P 164mm core*2 (ADI)	0460-2836-0030		1	
7	M-MS-0808-7665	WH FFC 40P 102mm core*1 (ADI)	0460-2840-0030		1	
8	B-SB-0221-0486	INVERTER DC-AC (TAD697) REV:D SHARP+ADI	0500-0101-0360		1	
9	C-BC-0302-0422	REAR COVER CAB. (ABS,94HB MID.GRAY-89121)	1701-0203-9020		1	
10	PL-BT-0706-0124	BUTTON (ABS 94HB,MID.GRAY-89121) (VG150mb)	1701-0409-6020		1	
11	M-MS-0808-8059	LED LENS	1701-0700-0140		1	
12	M-CV-0830-2367	HING COVER (ABS,94HB MID.GRAY-89121) (VG150mb)	1701-1901-1021		1	
13		FRAME BRACKET (SECC) REV:01	1712-0100-3051		1	
14	M-MS-0808-8062	SHIELD-INV. (L1-150T)	1712-0500-0610		1	
15	M-MS-0808-7667	SHIELD-M/B (VG150m/mb)	1712-0500-0870		1	
16	M-SCW-0824-0553	MAC. SCREW-MB M3*4.0L, BLK-Zn	1720-0003-0450		16	
17	M-SCW-0824-0648	MAC. SCREW-MR M2.0*3.0L, Ni	1720-1002-0320		4	
18	M-SCW-0824-0626	MAC. SCREW-MPSWF M4.0*8.0L, Zn-Cc	1720-1504-0810		4	
19	M-SCW-0824-0649	MAC. SCREW-MI M3.0*5.0L,ZN	1720-5003-0500		4	
20	M-SCW-0824-0724	MAC. SCREW-MHSW #4-40*5.0L,Ni	1720-7344-0520		2	
21	M-SCW-0824-0556	TAP. SCREW-TB #3*10.0L, BLK-Zn	1721-0003-1050		9	
22		TAP. SCREW-TP M2.0*6.0L,NI	1721-1020-0620		10	
23	C-FP-0301-0876	FRONT PANEL CAB.(ABS 94HB,MID.GRAY)(VG150mb)	1801-0110-5030		1	
24	M-MS-0808-4677	V.SONIC LOGO (AL. PLATE)	1936-1000-0100		1	
25	M-MS-0808-8349	REAR LOGO PLATE (VG150mb without silver coating)	1936-1000-0290		1	
26	M-MS-0808-8067	INSULATOR-B (L1-150T)	1947-1200-0140		1	
27	M-MS-0808-8068	INSULATOR-D (L1-150T)	1947-1200-0171		1	
28		ACETATE CLOTH TAPE 60*125mm	1947-1200-0240		1	

29	B-SB-0221-0474	INSULATOR-INVERTER	1947-1200-0440		1	
30	M-MS-0808-7669	SPONGE (70*11*15)	1947-1500-0440		1	
31	M-MS-0808-4725	SHIELDING AL. TAPE (40.0*70.0)	1947-1700-0090		1	
32	M-MS-0808-6035	SHIELDING AL.TAPE (70.0*50.0)	1947-1700-0130		2	
33	M-MS-0808-6036	GASKET BLOCK (10.0*10.5*60.0mm)	1947-1700-0260		2	
34	M-MS-0808-8069	GASKET BLOCK (5*3.5*50mm)	1947-1800-0070		2	
35		HEAT PATH (22.0L*8.0W*2.0t)	1947-1900-0060		1	
36	B-SB-0221-0473	15" LCD DISPLAY BD ASS'Y	3150-0182-0156		1	
37		LCD MAIN BD ASS'Y VG150mb(ADI)	3150-1112-0150		1	

B-SB-0221-0473 3150-0182-0156 15" LCD DISPLAY BD ASS'Y VG150m/mb

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	M-MS-0808-8058	LED L-3WYGW 3	0440-5000-0030	LED1	1	
2		PCB DISPLAY BD V0 159.0*18.0*1.6t	0170-1740-0660	PCB01	1	
3		WAFER 2.00MM 11P 90' KINK	0451-2000-1164	P1	1	
4	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW1	1	
5	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW2	1	
6	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW3	1	
7	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW4	1	
8	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW5	1	
9	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW6	1	
10	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW7	1	
11	M-MS-0808-1213	SW TACTILE 6*6MM 4P	0220-7020-0167	SW8	1	

3150-1112-0150 LCD MAIN BD ASS'Y VG150mb(ADI)(MRT)

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
1	E-C-0404-4794	E/C GEN. 330UF 16V 105' 8*9mm F (SX TYPE)	0101-0331-1211	C110	1	
2		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C15	1	
3		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C29	1	
4		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C37	1	
5		E/C GEN. 10UF 16V 105' 4*7mm F (SX TYPE)	0101-0100-1211	C47	1	
6		E/C GEN. 10UF 16V 105' 4*7mm F (SX TYPE)	0101-0100-1211	C48	1	
7	E-C-0404-4794	E/C GEN. 330UF 16V 105' 8*9mm F (SX TYPE)	0101-0331-1211	C49	1	
8		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C57	1	
9		E/C GEN. 330UF 25V 105' N-F	0101-1331-1310	C66	1	
10		E/C GEN. 330UF 25V 105' N-F	0101-1331-1310	C67	1	
11	E-C-0404-4794	E/C GEN. 330UF 16V 105' 8*9mm F (SX TYPE)	0101-0331-1211	C71	1	
12	E-C-0404-4794	E/C GEN. 330UF 16V 105' 8*9mm F (SX TYPE)	0101-0331-1211	C73	1	
13		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C74	1	
14		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C76	1	
15		E/C GEN. 220uF 16V 105' 8*9mm F (SX TYPE)	0101-0221-1211	C90	1	
16	E-D-0403-1743	SCHOTTKY DIODE SB340 T	0390-6000-9172	D4	1	
17	E-FS-0410-0084	PICO FUSE 125V 3.5A 3*7MM (R25103.5)	0182-1352-3703	FUSE1	1	
18	E-L-0407-1057	DRUM CORE L:70UH 2A(10*16)	0361-1000-0120	L17	1	
19	E-L-0407-0547	FERRITE CORE RH 3.5X6X1.0(W)X2	0370-0000-1010	L7	1	
20	M-MS-0808-7905	CONN. B TO FPC IL-FHR 36P (IL-FHR-F36S-HF)	0303-1000-0363	P1	1	
21	M-MS-0808-8055	CONN. B TO FPC FH12-36S-0.5SH 36PIN	0303-1000-0364			CS
22	M-MS-0808-2118	WAFER 2.00MM 4P 90' KINK	0451-2000-0464	P10	1	
23	M-MS-0808-8056	CONN. B TO FPC IL-FHR 40P (IL-FHR-F40S-HF)	0303-1000-0403	P2	1	
24	M-MS-0808-8057	CONN. B TO FPC FH12-40S-0.5SH 40PIN	0303-1000-0404			CS
25	M-MS-0808-1765	WAFER 2.00MM 5P 90' KINK	0451-2000-0564	P3	1	
26		WAFER 2.00MM 11P 90' KINK	0451-2000-1164	P5	1	
27	M-MS-0808-8054	DC POWER JACK 180 °	0302-1360-0026	P6	1	
28		PHONE JACK 3.5 7PIN 180' (PC99) +SHIELDING	0302-0350-0070	P7	1	
29	M-MS-0808-8053	D-SUB FEMALE 180' 15P 3ROW 5mm (PC99)	0300-1213-3150	P8	1	
30	E-IC-0401-2522	IC AN7512 DIP 16PIN	0430-4007-2168	U7	1	
31	E-IC-0401-1888	IC 24LC08B/P DIP 8PIN	0430-3000-4117	U8	1	
32	E-IC-0401-2513	IC ST24C08 DIP 8PIN	0430-3000-4107			CS
33	E-IC-0401-2514	IC S24C08ADP DIP 8PIN	0430-3000-4147			CS
34	E-IC-0401-2515	IC M24C08-BN6 DIP 8PIN	0430-3000-6107			CS
35	M-MS-0808-0305	IC SOCKET 2.54MM 8PIN	0201-2540-8000	U8S	1	
36	E-T-0408-0465	X'TAL 12MHZ 49/US CL:30PF	0280-1200-0015	Y1	1	
37	E-T-0408-0465	X'TAL 12MHZ 49/US CL:30PF	0280-1200-0015	Y2	1	
38		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP1	1	
39		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP10	1	
40		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP11	1	
41		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP12	1	
42		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP2	1	
43		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP3	1	
44		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP4	1	
45		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP5	1	
46		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP6	1	
47		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP7	1	
48		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP8	1	
49		ARRAY CAP 22P 50V NPO 8PIN	0111-5220-5111	CP9	1	
50	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C1	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
51	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C10	1	
52		C/M Multi. 33PF 50V NPO 0603	0111-3330-5106	C100	1	
53	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C101	1	
54	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C108	1	
55	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C109	1	
56	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C11	1	
57	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C111	1	
58	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C113	1	
59	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C114	1	
60	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C12	1	
61	E-C-0404-4045	C/M MULTI 0.022UF 50V X7R 0805	0111-3223-5115	C13	1	
62	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C14	1	
63	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C16	1	
64	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C17	1	
65	E-C-0404-4106	C/M MULTI. 4700PF 50V X7R 0603	0111-3472-5116	C18	1	
66	E-C-0404-3711	C/M MULTI 0.01UF 50V X7R 0603	0111-3103-5116	C19	1	
67	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C2	1	
68	E-C-0404-3711	C/M MULTI 0.01UF 50V X7R 0603	0111-3103-5116	C20	1	
69	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C21	1	
70	E-C-0404-4106	C/M MULTI. 4700PF 50V X7R 0603	0111-3472-5116	C22	1	
71	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C23	1	
72	E-C-0404-4106	C/M MULTI. 4700PF 50V X7R 0603	0111-3472-5116	C24	1	
73	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C25	1	
74	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C26	1	
75		C/M MULTI 5600PF 50V X7R 0805	0111-3562-5115	C27	1	
76		C/M MULTI 150PF 50V NPO 0603	0111-3151-5106	C28	1	
77	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C3	1	
78	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C30	1	
79	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C32	1	
80	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C35	1	
81	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C36	1	
82	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C38	1	
83	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C4	1	
84	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C40	1	
85	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C41	1	
86	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C42	1	
87	E-C-0404-4104	C/M MULTI. 20PF 50V NPO 0603	0111-3200-5106	C43	1	
88	E-C-0404-4104	C/M Multi. 12PF 50V NPO 0603	0111-3120-5106	C44	1	
89		C/M MULTI. 20PF 50V NPO 0603	0111-3200-5106	C45	1	
90	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C5	1	
91	E-C-0404-4230	E/C GEN. 2.2UF 50V RV2 SMD	0101-1229-1504	C50	1	
92	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C51	1	
93	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C52	1	
94	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C54	1	
95	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C55	1	
96	E-C-0404-3714	C/M MULTI. 22PF 50V NPO 0603	0111-3220-5106	C56	1	
97	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C6	1	
98	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C65	1	
99	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C68	1	
100	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C69	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
101	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C7	1	
102	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C70	1	
103	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C72	1	
104	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C75	1	
105	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C77	1	
106	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C79	1	
107	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C8	1	
108	E-C-0404-3710	C/M MULTI 1000PF 50V X7R 0603	0111-3102-5116	C80	1	
109	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C81	1	
110	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C83	1	
111	E-C-0404-3713	C/M MULTI. 1.0UF 10V Y5V 0603	0111-3105-1136	C84	1	
112	E-C-0404-3710	C/M MULTI 1000PF 50V X7R 0603	0111-3102-5116	C86	1	
113	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C87	1	
114	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C88	1	
115	E-C-0404-4095	E/C GEN. 47UF 10V RV2 SMD	0101-1470-1104	C89	1	
116	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C9	1	
117	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C91	1	
118	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C94	1	
119	E-C-0404-3712	C/M MULTI. 0.1UF 25V Y5V 0603	0111-3104-2536	C95	1	
120		C/M Multi. 33PF 50V NPO 0603	0111-3330-5106	C97	1	
121		DUAL SURFACE DIODES BAV99 SMD (SOT-23)	0390-5001-9293	D16	1	
122		DUAL SURFACE DIODES BAV99 SMD (SOT-23)	0390-5001-9293	D17	1	
123		DUAL SURFACE DIODES BAV99 SMD (SOT-23)	0390-5001-9293	D18	1	
124	E-D-0403-1740	DUAL SURFACE DIODES BAV70 SMD (SOT-23)	0390-5001-8293	D19	1	
125		CHIP BEAD CORE 1.5uH (MLI-201209-1R5K)	0370-0000-6952	L1	1	
126		CHIP BEAD CORE 100ohm (MLB-160808-0100B-N3)	0370-0000-7053	L10	1	
127		CHIP BEAD CORE 100ohm (MLB-160808-0100B-N3)	0370-0000-7053	L11	1	
128	E-R-0405-3162	RES. CF 2.2ohm 1/8W J 0805	0130-2208-1858	L12	1	
129	E-L-0407-1213	CHIP BEAD CORE 30ohm MLB-201209-0030A-N1	0370-0000-3552	L13	1	
130	E-R-0405-3162	RES. CF 2.2ohm 1/8W J 0805	0130-2208-1858	L14	1	
131		CHIP BEAD CORE 0.47uH (MLI-321611-R47M)	0370-0000-6851	L15	1	
132	E-R-0405-3167	RES. CF 0.0ohm 1/8W J 0805	0130-0000-1858	L16	1	
133	E-R-0405-3167	RES. CF 0.0ohm 1/8W J 0805	0130-0000-1858	L18	1	
134		CHIP BEAD CORE 80ohm (MLB-201209-0080P-N2)	0370-0000-6752	L2	1	
135		CHIP BEAD CORE 80ohm (MLB-201209-0080P-N2)	0370-0000-6752	L3	1	
136		CHIP BEAD CORE 100ohm (MLB-160808-0100B-N3)	0370-0000-7053	L9	1	
137	B-MB-0201-0676	PCB MAIN BD 135.0*126.0*1.6t FR4 4M (VE510+ MRT)	0171-2242-0720	PCB01	1	
138	E-Q-0402-1578	MOSFET IRLML6402 P-CH SOT-23	0420-2000-6601	Q1	1	
139	E-Q-0402-1577	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	0420-1002-4621	Q10	1	
140	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q11	1	
141	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
142	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q2	1	
143	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
144	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q4	1	
145	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
146	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q6	1	
147	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
148	E-Q-0402-1087	TRANSISTOR MMBT3904LT1 SMD T	0410-5000-1610	Q7	1	
149	E-Q-0402-0307	TRANSISTOR 2N3904 SMD T	0410-5000-1604			CS
150	E-Q-0402-1577	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	0420-1002-4621	Q8	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
151	E-Q-0402-1577	MOSFET N-CH 2N7002E-T1 SMD (SOT-23)	0420-1002-4621	Q9	1	
152	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP1	1	
153	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP10	1	
154	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP11	1	
155	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP12	1	
156	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP2	1	
157	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP3	1	
158	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP4	1	
159	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP5	1	
160	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP6	1	
161	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP7	1	
162	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP8	1	
163	E-L-0407-1517	ARRAY BEAD 120ohm (FCA3216M4-121TO2)	0370-0010-0161	RP9	1	
164	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R10	1	
165	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R101	1	
166	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R102	1	
167	E-R-0405-4232	RES. CF 1.0Kohm 1/8W J 1206	0130-1001-1859	R103	1	
168	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R105	1	
169	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R106	1	
170	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R107	1	
171	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R108	1	
172	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R109	1	
173	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R11	1	
174	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R112	1	
175	E-R-0405-6277	RES. CF 1.0Kohm 1/10W J 0603	0130-1001-0055	R113	1	
176	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R12	1	
177	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R125	1	
178	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R126	1	
179	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R127	1	
180	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R128	1	
181	E-R-0405-6293	RES. CF 150ohm 1/10W J 0603	0130-1500-0055	R129	1	
182	E-R-0405-6611	RES. CF 270Kohm 1/10W J 0603	0130-2703-0055	R13	1	
183	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R131	1	
184	E-R-0405-6278	RES. CF 10Kohm 1/10W J 0603	0130-1002-0055	R133	1	
185	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R136	1	
186	E-R-0405-6278	RES. CF 10Kohm 1/10W J 0603	0130-1002-0055	R138	1	
187	E-R-0405-6293	RES. CF 150ohm 1/10W J 0603	0130-1500-0055	R139	1	
188		RES. CF 820ohm 1/10W J 0603	0130-8200-0055	R14	1	
189	E-R-0405-6283	RES. CF 22Kohm 1/10W J 0603	0130-2202-0055	R145	1	
190	E-R-0405-6277	RES. CF 1.0Kohm 1/10W J 0603	0130-1001-0055	R147	1	
191	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R15	1	
192	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R16	1	
193	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R17	1	
194	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R18	1	
195	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R19	1	
196	E-R-0405-6282	RES. CF 2.2Kohm 1/10W J 0603	0130-2201-0055	R20	1	
197	E-R-0405-6298	RES. CF 820Kohm 1/10Wohm J 0603	0130-8203-0055	R21	1	
198	E-R-0405-5794	RES. CF 68Kohm 1/10W J 0603	0130-6802-0055	R22	1	
199		RES. CF 820ohm 1/10W J 0603	0130-8200-0055	R23	1	
200		RES. CF 430ohm 1/10W J 0603	0130-4300-0055	R24	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
201		RES. CF 430ohm 1/10W J 0603	0130-4300-0055	R25	1	
202	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R26	1	
203	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R32	1	
204	E-L-0407-1215	CHIP BEAD CORE 60ohm MLB-160808-0060A-N2	0370-0000-4453	R33	1	
205	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R34	1	
206		RES. CF 1.0Mohm 1/10W J 0603	0130-1004-0055	R35	1	
207	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R36	1	
208	E-R-0405-6291	RES. CF 75ohm1/10W J 0603	0130-7509-0055	R37	1	
209	E-R-0405-6291	RES. CF 75ohm1/10W J 0603	0130-7509-0055	R38	1	
210	E-R-0405-6291	RES. CF 75ohm1/10W J 0603	0130-7509-0055	R39	1	
211	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R4	1	
212	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R43	1	
213	E-R-0405-6276	RES. CF 100ohm 1/10W J 0603	0130-1000-0055	R44	1	
214		RES. CF 1.0Mohm 1/10W J 0603	0130-1004-0055	R45	1	
215	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R46	1	
216	E-R-0405-6276	RES. CF 100ohm 1/10W J 0603	0130-1000-0055	R47	1	
217	E-R-0405-6285	RES. CF 3.3Kohm 1/10W J 0603	0130-3301-0055	R49	1	
218	E-R-0405-3167	RES. CF 0.0ohm 1/8W J 0805	0130-0000-1858	R50	1	
219	E-R-0405-6277	RES. CF 1.0Kohm 1/10W J 0603	0130-1001-0055	R51	1	
220	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R53	1	
221	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R56	1	
222	E-R-0405-6278	RES. CF 10Kohm 1/10W J 0603	0130-1002-0055	R59	1	
223	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R60	1	
224	E-R-0405-5794	RES. CF 0.0ohm 1/10W J 0603	0130-0000-0055	R61	1	
225		RES. CF 470Kohm 1/10Wohm J 0603	0130-4703-0055	R63	1	
226	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R65	1	
227	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R66	1	
228	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R68	1	
229	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R69	1	
230	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R7	1	
231	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R70	1	
232	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R71	1	
233	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R72	1	
234	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R73	1	
235	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R74	1	
236	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R75	1	
237	E-R-0405-6278	RES. CF 10Kohm 1/10W J 0603	0130-1002-0055	R76	1	
238	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R77	1	
239	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R8	1	
240	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R82	1	
241	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R83	1	
242	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R84	1	
243	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R85	1	
244	E-R-0405-6277	RES. CF 1.0Kohm 1/10W J 0603	0130-1001-0055	R86	1	
245	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R88	1	
246	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R89	1	
247	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R90	1	
248	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R91	1	
249	E-R-0405-5795	RES. CF 22ohm 1/10W J 0603	0130-2209-0055	R92	1	
250	E-R-0405-6280	RES. CF 12Kohm 1/10W J 0603	0130-1202-0055	R96	1	

ITEM	VIEWSONIC P/N	DESCRIPTION	REFERENCE NUMBER	LOCATION	Q'TY	M/S
251	E-R-0405-6288	RES. CF 47ohm 1/10W J 0603	0130-4709-0055	R98	1	
252	E-R-0405-6287	RES. CF 4.7Kohm 1/10W J 0603	0130-4701-0055	R99	1	
253	E-IC-0401-2642	IC MASCOT V PQFP 160PIN	0430-5007-1976	U1	1	
254	E-IC-0401-2644	IC AIC1084-33CE SMD 3PIN TO-252	0430-6003-0069	U11	1	
255	E-IC-0401-1982	IC AT24C02N-10SC-2.7 SMD 8PIN	0430-3001-1011	U14	1	
256	E-IC-0401-2346	IC AMC431 SMD(SOT-23) 3PIN	0430-6000-4051	U2	1	
257	E-IC-0401-2648	IC MAX810LTR 3PIN SOT-23	0430-7010-9058	U3	1	
258		IC LM810M3-4.63 3PIN SOT-23-3	0430-7010-9004			CS
259	E-IC-0401-2521	IC 74LCX14 SMD 14PIN(SOIC)	0430-1004-4035	U4	1	
260	E-IC-0401-2373	IC LM2596S-5.0 TO-263 5PIN	0430-6001-7204	U5	1	
261	E-IC-0401-2643	IC SM5964C40J 44PIN PLCC	0430-5007-5578	U6	1	
262		PLCC SOCKET 44PIN SMD	0204-1274-4012	U6S	1	
263		SOFTWARE VG150mb(ADI) CPU:VG15bAMM05.hex	0990-4000-8202	U6X	1	
264		ZENER RLZ5.6B 5.45V~5.73V 1/2W SMD	0400-0541-2012	ZD1	1	
265		ZENER RLZ5.6B 5.45V~5.73V 1/2W SMD	0400-0541-2012	ZD2	1	
266		ZENER RLZ5.6B 5.45V~5.73V 1/2W SMD	0400-0541-2012	ZD3	1	
267		ZENER RLZ5.6B 5.45V~5.73V 1/2W SMD	0400-0541-2012	ZD4	1	

Reader's Response

Dear Readers:

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

Assessment

A. What do you think about the content after reading VG150m/mb series Service Manual?

<i>Unit</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
Specification				
Disassembly / Assembly Instructions				
Electronic Circuit Description				
Adjustment				
Troubleshooting Flow Chart				
Schematics Diagrams				
PCB Layout				
Explode Diagram and Mechanical Parts List				
Recommend Spare Parts List				
Complete Parts List				

B. Are you satisfied with the VG150m/mb service manual?

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

C. Do you have any other opinion or suggestion about this service manual?

Reader's basic data:

Name:		Title:	
Company:			
Add:			
Tel:		Fax:	
E-mail:			

After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-444-8654. You may also e-mail any suggestions to the Director of Quality Assurance (marc.maupin@viewsonic.com)