Service Manual



Model #: VIZIO GV47L FHDTV10A

V, Inc

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FCC INFORMATION

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

FCC WARNING

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

CE CERTIFICATION

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

SAFETY CAUTION

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

Chapter 1 Features

- 1. High resolution 1920 x 1080 with wide screen.
- 2. Built-in digital HDTV and standard TV combination TV tuner.
- 3. All TV formats supported (1080i, 720p, 480 p and 480i).
- 4. Computer Monitor (RGB): up to 1360 x 768 (H x V).
- 5. Wall mounting capable with and without speakers.
- 6. 2.1 virtual surround sound with 20W subwoofer.
- 7. Dual HDMI (High Definition Multimedia Interface).
- 8. Independent Red, Green and Blue adjustment in TV, Video, HDMI and VGA for user fine tuning of color temperature with reset.
- 9. Power saving to reduce consumption power to less than 3W.
- 10. Zero Bright Pixel.
- 11. PIP, POP, CC, V-Chip, 3D Comb Filter, Zoom, Freeze, 3:2 Reverse Pull-down, ATSC, with 8VSB & QAM demodulation, with MPEG-2 decoding, NTSC Video decoding via RF (Antenna, Cable or Satellite) or Video (CVBS, S-Video or Component), Progressive Scan Video via Component YPbPr, VGA or HDMI, HDTV via HDMI or Component YPbPr,

Chapter 2 Specification

1. TFT-LCD CHARACTERISTICS

Type: 47.0" WUXGA TFT LCD

Size: 47 inch

Display Size: 46.96" diagonal

Outline Dimension: 1096 mm (H) x 640 mm (V) x 51 mm (D) (Typ.)

Pixel Pitch: 0.5415mm (H) x 0.5415mm (V)

Pixel Format: 1920 horiz. By 1080 vert. Pixels RGB strip arrangement

Contrast ratio: 800:1(Typ.), 1,600:1 with DCR

Luminance, White: 500 cd/m2 (Typ.)
Display Operating Mode: normally Black

Surface Treatment: Hard Coating (3H), Anti-glare treatment of the front polarizer.

2. OPTICAL CHARACTERISTICS

Viewing Angle (CR>10)

Left: 89°typ. Right: 89°typ. Top: 89°typ. Bottom: 89°typ.

3. SIGNAL (Refer to the Timing Chart)

Sync Signal
1) Type: LVDS

2) Input Voltage Level: 100~240 Vac, 50/ 60 Hz

4. Input Connectors

RJ11, D-SUB15PIN (MINI, 3rows), Headphone, HDMIX2, RCAX2 (component), RCAX2 (AUDIO in), RCAX2 (composite), RCAX2 (AUDIO in), S-Video, Tuner

5. POWER SUPPLY

Power Consumption: 400W MAX

Power OFF: 3W MAX

6.Speaker

Output 10W (max) X2, Sub woofer 20W X1

7. ENVIRONMENT

7-1. Operating Temperature: 0c~35c (Ambient)

7-2. Operating Humidity: Ta= 35 °C, 90%RH (Non-condensing)7-3. Operating Altitude: 0 - 14,000 feet (4267.2m)(Non-Operating)

8. DIMENSIONS (Physical dimension)

Width: 1131 mm. Depth: 270 mm Height: 798 mm

9. WEIGHT (Physical weight)

a. Net: 40.3 +/-0.5kgsb. Gross: 47.3+/-0.5kgs

9-1. MOUNTING PRECAUTIONS

- (1) You must mount a module using holes arranged in four corners or four sides.
- (2) You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.
- (3) Please attach the surface transparent protective plate to the surface in order to protect the polarizer. Transparent protective plate should have sufficient strength in order to the resist external force.
- (4) You should adopt radiation structure to satisfy the temperature specification.
- (5) Acetic acid type and chlorine type materials for the cover case are not desirable because the former generates corrosive gas of attacking the polarizer at high temperature and the latter causes circuit break by electro-chemical reaction.

- (6) Do not touch, push or rub the exposed polarizes with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment. Do not touch the surface of polarizer for bare hand or greasy cloth.(Some cosmetics are detrimental to the polarizer.)
- (7) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks with petroleum benzene. Normal-hexane is recommended for cleaning the adhesives used to attach front / rear polarizers. Do not use acetone, toluene and alcohol because they cause chemical damage to the polarizer.
- (8) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (9) Do not open the case because inside circuits do not have sufficient strength.

9-2. OPERATING PRECAUTIONS

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

9-3. HANDLING PRECAUTIONS FOR PROTECTION

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

Chapter 3 On Screen Display

Main unit button

POWER

SOURCE

CH+

CH -

VOL+

VOL-

MENU

TV Source

- A. Picture Adjust:
 - a. Picture Mode (Standard/Movie /Game /Custom)
 - b. Backlight (0~100)
 - c. Contrast (0~100)
 - d. Brightness (0~100)
 - e. Color (saturation)(0~100)
 - f. Tint (hue) (0~100)
 - g. Sharpness (0~7)
 - h. Color Temperature (Cool/Normal/Warm/Custom)
 - i. Advanced Picture Adjust
- B. Audio Adjust:
 - a. Volume (0~100)
 - b. Bass (0~100)
 - c. Treble (0~100)
 - d. Balance (-50~+50)
 - e. Surround (ON/OFF)
 - f. Speakers (ON/OFF)

C. Special Features:

- a. Language (English/Français/Espaňol)
- b. Sleep Timer (OFF/30Min/60Min/90Min/120Min)
- c. Analog CC (OFF/CC1~4/TT1~4)
- d. Digital CC (OFF/CC1~4/Service1~6)
- e. Digital CC Style
- f. PIP Position (TL/TC/TR/ML/MR/BL/BC/BR)
- g. Rest All Settings

D. TV Tuner Setup:

- a. Tuner Mode (Cable/Air)
- b. Auto Search
- c. Skip Channel
- d. Digital Audio Out (PCM/Dolby Digital)
- e. Time Zone

(Eastern/Indiana/Central/Mountain/Arizona/Pacific/Alaska/Hawaii)

f. Daylight Saving (ON/OFF)

E. Parental Control:

- a. Parental Lock Enable (ON/OFF)
- b. TV Rating
- c. Movie Rating
- d. Block Unrated TV (NO/YES)
- e. Access Code Edit

RGB Mode

A. Picture Adjust:

- a. Auto Adjust
- b. Backlight (0~100)
- c. Contrast (0~100)
- d. Brightness (0~100)
- e. Color Temperature (9300/6500/Custom)
- f. H-Size (0~255)
- g. Horizontal Shift (0~255)
- h. Vertical Shift (0~63)
- i. Fine Tune (0~31)

B. Audio Adjust:

- a. Volume (0~100)
- b. Bass (0~100)
- c. Treble (0~100)
- d. Balance (-50~+50)
- e. Surround (ON/OFF)
- f. Speakers (ON/OFF)

C. Special Features:

- a. Language (English/Français/Espaňol)
- b. Sleep Timer (OFF/30Min/60Min/90Min/120Min)
- c. PIP Position (TL/TC/TR/ML/MR/BL/BC/BR)
- d. Rest All Settings

AV / SV / COMPONENT MODE

A. Picture Adjust:

- a. Picture Mode (Standard/Movie /Game /Custom)
- b. Backlight (0~100)
- c. Contrast (0~100)
- d. Brightness (0~100)
- e. Color (saturation) (0~100)
- f. Tint (hue) (-50~+50)
- g. Sharpness (0~7)
- h. Color Temperature (Cool/Normal/Warm/Custom)
- i. Advanced Picture Adjust

B. Audio Adjust:

- a. Volume (0~100)
- b. Bass (0~100)
- c. Treble (0~100)
- d. Balance (-50~+50)
- e. Surround (ON/OFF)
- f. Speakers (ON/OFF)

C. Special Features:

- a. Language (English/Français/Espaňol)
- b. Sleep Timer (OFF/30Min/60Min/90Min/120Min)
- c. Analog CC (OFF/CC1~4/TT1~4)
- d. PIP Position (TL/TC/TR/ML/MR/BL/BC/BR)
- e. Rest All Settings

D. Parental Control:

- a. Parental Lock Enable (ON/OFF)
- b. TV Rating
- c. Move Rating
- d. Block Unrated TV (NO/YES)
- e. Access Code Edit

HDMI MODE:

A. Picture Adjust:

- a. Picture Mode (Standard/Movie /Game /Custom)
- b. Backlight (0~100)
- c. Contrast (0~100)
- d. Brightness (0~100)
- e. Color (saturation) (0~100)
- f. Tint (hue) (-50~+50)
- g. Sharpness (0~7)
- h. Color Temperature (Cool/Normal/Warm/Custom)
- i. Advanced Picture Adjust

B. Audio Adjust:

- a. Volume (0~100)
- b. Bass (0~100)
- c. Treble (0~100)
- d. Balance (0~100)
- e. Surround (ON/OFF)
- f. Speakers (ON/OFF)

C. Special Features:

- a. Language (English/Français/Espaňol)
- b. Sleep Timer (OFF/30Min/60Min/90Min/120Min)
- c. PIP Position (TL/TC/TR/ML/MR/BL/BC/BR)
- d. Rest All Settings

Chapter4 Factory preset timings

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

Mode No.	Resolution	Refresh Rate (Hz)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Horizontal Sync Polarity (TTL)	Vertical Sync Polarity (TTL)	Pixel Rate (MHz)	Remark
1	640x480	60	31.5	59.94	N	N	25.175	Windows
2	640x480	75	37.5	75.00	N	N	31.500	Windows
3	800x600	60	37.9	60.317	Р	Р	40.000	Windows
4	800x600	75	46.9	75	Р	Р	49.500	Windows
5	800x600	85	53.7	85.06	Р	Р	56.250	Windows
6	1024x768	60	48.4	60.01	N	N	65.000	Windows
7	1024x768	70	56.5	70.07	N	N	75.000	Windows
8	1024x768	75	60.0	75.03	Р	Р	78.750	Windows
9	1360x768	60	47.7	60.00	Р	N	85.5	Windows

Remark: P: positive, N: negative

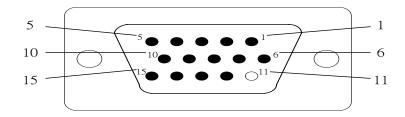
O Primary mode

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Chapter 5 Pin Assignment

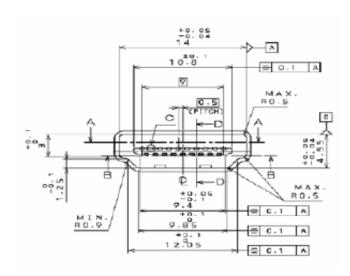
The LCD analog display monitors use a 15 Pin Mini D-Sub connector as video input source.

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



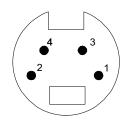
HDMI CONNECT PIN ASSIGNMENT

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



Four-Pin mini DIN S-Video Connector

a. Pin Assignment



1, 2 = GND

3 = Luminance (Y)

4 = Chrominance(C)

b. Frequency: H: 15.734KHz V: 60Hz (NTSC) c. Signal level: Y: 1Vp-p C: 0.286Vp-p

d. Impedance: 75Ω

e. Connector type: 4-pin mini DIN

F-Type TV RF connector

NTSC system

a. Signal level Analog 1Vp-p typical (45tdB~90dB)

b. Frequency 55~801 MHz

ATSC system

a. IF-output level 1Vp-p minimumb. Frequency 57~803 MHz

QAM system (supporting clear QAM)

a. IF-output level 1Vp-p minimumb. Frequency 57~849 MHz

AV/Composit Video (CVBS) Connector

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

b. Signal level: 1Vp-p Sync (H+V):0.3V below Video (Y+C)

c. Impedance: 75Ω d. Connector type: RCA jack

PC connector 15 pin male D-sub connector

a. Type: Analog

b. Frequency: H: 30-80KHz V: 60-85Hz

c. Signal level: 0.7Vp-p d. Impedance: 75Ω

e. Synchronization H/V separate sync:

H/V composite sync: Sync on Green

TTL

TTL

f. Video bandwidth: 135MHz

g. Connector type: 15-pin D-Sub, female

HDMI Signal (HDMI):

a. Pin Assignment Refer to HDMI Pin Assignment

b. Frequency: H: 15.734KHz V: 60Hz

H: 31KHz V: 60Hz H: 45KHz V: 60Hz H: 33KHz V: 60Hz

c. Polarity: Positive or Negative

d. Type: Type A

Component signal (Component 1 and Component 2)

a. Frequency: H: 15.734KHz V: 60Hz (NTSC-480i)

H: 31KHz V: 60Hz (NTSC-480p)
H: 45KHz V: 60Hz (NTSC-720p)

H: 33KHz V: 60Hz (NTSC-1080i)

b. Signal level: Y: 1Vp-p

Pb: ±0.350Vp-p Pr: ±0.350Vp-p

c. Impedance: 75Ω d. Connector type: RCA jack

PC Stereo audio

a. Signal level: 1Vrms b. Impedance: $47K\Omega$

c. Connector type: 3.5 \(\phi \) mini jack

Video Stereo audio

a. Signal level: 0.7Vrms b. Impedance: $47K\Omega$

c. Frequency response: 250Hz-20KHz

d. Connector type: RCA L/R

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Chapter 6 Main Board I/O Connections

J6 CONNECTION (TOP→BOTTOM)

Pin	Description
1	"+5V"
2	"+3.3V"
3	"ADCKEY"
4	"LED"
5	"PWR KEY"
6	"GND"
7	"GND"
8	"IR"

J7 CONNECTION (TOP→BOTTOM)

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

Chapter 7 Theory of Circuit Operation

7.1 The operation of D-SUB 15pin route

The D-SUB 15pin is input analog signal to the MTK8206 transfer A/D converter then generates the vertical and horizontal timing signals for display device.

7.2 The operation of HDMII CON route

The HDMI 1&2 CON is input digital signal to the PI3HDMI412FT switch output signal is process to the MT8293. Then transfer to the MTK8206, the MTK8206 generates the vertical and horizontal timing signals for display device.

7.3 The operation of HDTV & Component route

HDTV & Component signal is input to the MTK8206 then MTK8206 generates the vertical and horizontal timing signals for display device.

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

The Video 1,2 and S-Video signal is transmission signal to the MTK8206 then MTK8206 generates the vertical and horizontal timing signals for display device.

7.5 The operation of TV route

TV signal is processes to the tuner and output to MTK8206 then MTK8206 generates the vertical and horizontal timing signals for display device. Audio is processes to the tuner output to SIF circuit and output to MTK8206. Then MTK8206 process to wm8776 and output to MP7722 & MP7782 transfer to speaker

7.6 The operation of DTV route

DTV signal is processes to the tuner and transmission to MT5112 and output signal to MT5351 then MT5351 output to MT8206 generates the vertical and horizontal timing signals for display device.

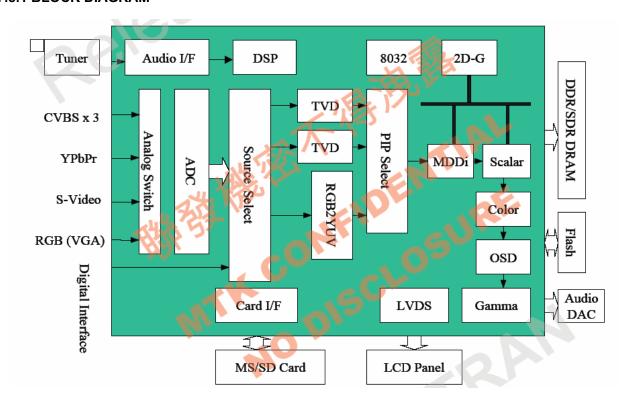
7.7 The operation of touch keypad

There are 7 touch keys to control and select the function of GV47L and also has one LED to indicate the status of operation. They are "POWER, SOURCE, CH+/-, VOL+/-, MENU".

7.8 MT8206 Application

MT8206 is a highly integrated video and audio single chip processor for emerging HDTV-Ready LCD TV. It includes one 3D/2D TV Decoder recovering the best image from CVBS, and in addition, its analog input also support popular S-Video, Component, VGA video source. On-chip advanced motion adaptive de-interlacer (MDDitm) converts accordingly the interlace video into smooth non-flicking progressive motion pictures. With on-chip advanced 2D Graphic processor,MT8206 provides customers with high quality UI adding significant end product value. Flexible scalar provides wide adoption to various LCD panel for different video sources. Its on-chip audio processor decodes whole world standard audio signals from tuner with lip sync control, delivering high quality post-processed sound effect to customers. On-chip microprocessor and reference FW reduces the system BOM and shortens the schedule of UI design by high-level C program. With truly SOC design, MT8206 offers our customers the real cost-effective high performance HDTV-ready solution.

7.8.1 BLOCK DIAGRAM



7.8.2 Video input

- a. Input Multiplexing
 - 1.Component X2
 - 2.Composite X2
 - 3.S-videoX1
 - 4.HDMI X2
 - 5.VGA X1
 - 6.RF&DTV X1
- b. Input formats:
 - 1.support HDTV 480i/480p/720p/1080i
 - 2.support CVBS signal 1VP-P/75Ω
 - 3.support Y/C signal 1VP-P/75Ω
 - 4.support 480i/480p/720p/1080i/1080p
 - 5.support VGA input up to 1360x768@60HZ
 - 6.support RF NTSC system Frequency 55~801MHZ;DTV 480i/480p/720p/1080i

7.8.3 Decoder

TVD

- 1. Single 2nd generation TV decoder
- 2.Automatic TV standard detection supporting NTSC, NTSC-4.43, PAL (B, G, D, H, M, N, I, Nc), PAL (Nc), PAL, SECAM
- 3.Enhanced 2nd generation NTSC/PAL Motion Adaptive 3D comb filter
- 4. Motion Adaptive 3D Noise Reduction
- 5.Embedded VBI decoder for Closed-Caption/XDS/ Teletext/WSS/VPS
- 6. Supporting Macro vision detection

YPbPr/Scart/D-connector

- 1.Supporting HDTV 480i/480p/576i/576p/720p/1080i input
- 2.Smart detection on Scart function for European region
- 3.Smart detection on D-connector for Japan region
- 4. Supporting SCART RGB inputs mixed with composite signal by adjustable horizontal delay

VGA

- 1. Supporting various VGA input timings up to SXGA (1360x768@60Hz).
- 2. Supporting Separate/Composite/SOG sync types

Digital port

- 1.digital port supporting DVI 24-bit RGB or CCIR-656/601 digital video input format
- 2.additional 8 bit digital port for ITU656 video format

VBI

- 1. Dual VBI decoders for the application of V-Chip/Closed-Caption/XDS/ Teletext/WSS/VPS
- 2. Supporting external VBI decoder by YPrPb input
- 3.VBI decoder up to 1000 pages Teletext.

Support Formats:

Support NTSC, NTSC-4.43

Automatic Luma / Chroma gain control

Automatic TV standard detection

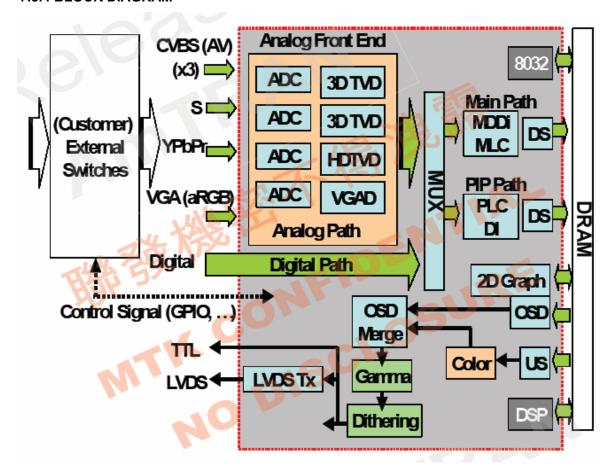
NTSC Motion Adaptive 3D comb filter

Motion adaptive 3D Noise Reduction

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

Macro vision detection

7.8.4 BLOCK DIAGRAM



7.8.5 2D-Graphic/OSD processor

Embedded two backend RGB domain OSD planes and one YUV domain OSD plane. to support Main/PIP Teletext/Close-caption functions together with setup menu

- 1. Supporting alpha blending among these two planes and video
- 2.Supporting Text/Bitmap decoder
- 3. Supporting line/rectangle/gradient fill
- 4. Supporting bitblt
- 5. Supporting color Key function
- 6.Supporting Clip Mask
- 7.65535/256/16/4/2-color bitmap format OSD,
- 8. Automatic vertical scrolling of OSD image
- 9. Supporting OSD mirror and upside down

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7.8.6 Microprocessor interface

When power is supplied and power key is pressed then the rest circuit lets Reset to low state that will reset the MTK8206 to initial state. After that the Reset will transits to high state and the MTK8206 start to work that microprocessor executes the programs and configures the internal registers. The execution speed of CPU is 162 MHz.

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

Pin name	Function	Туре	Description
AD17	PWM	Output	Backlight Adjust
R3	GPIO2	Output	Panel on/off
V1	GPIO7	Output	System power
Y2	GPIO16	Output	LVDS on/off
R4	GPIO3	Output	ATSC POW on/off
AD22	IOSCL	Input / Output	SDA
AV22	IOSDA	Input / Output	SCL
W3	GPIO13	Output	HDMI Switch Select
Y4	GPIO_18	Output	MT8293 Reset
W4	GPIO_14	Output	MT8293 acknowledge to player
B19	ADC_IN0	Input	Key ADC detection
L4	IR	Input	IR Receiver
Y1	GPIO_15	Output	SYSTEM EEPROM Read / Write
T2	GPIO_23	Output	LED Backlight
L2	RESETn	Input	MT8206 RESET
R2	GPIO_1	Output	DTV & HDMI Select PIN
T4	GPIO_4	Output	DTV & ATV Select PIN

2. PIP/POP HARDWARE LIMITION:

MAIM/PIP TABLE (8202)							
PIP TV MAIN		ATSC (DTV)	AVI	AV2/S-VIDEO	COMPONENT 1&2	HDMI 1&2	PC
TV		X	Χ	Χ	0	0	0
ATSC (DTV)	Χ		Χ	Χ	0	Χ	0
AVI	Χ	Χ		Χ	0	0	0
AV2/ S-VIDEO	Χ	Χ	Χ		0	0	0
COMPONENT 1&2	0	0	0	0		0	Χ
HDMI 1&2	0	Χ	0	0	0		0
PC	0	0	0	0	Χ	0	

7.8.7 Video processor

1.Color Management

Fully 10-bit processing to enhance the video quality

Advanced flesh tone and multiple-color enhancement. (For skin, sky, and grass...)

Gamma/anti-Gamma correction

Advanced Color Transient Improvement (CTI)

Saturation/hue adjustment

2. Contrast/Brightness/Sharpness Management

Sharpness and DLTI/DCTI

Brightness and contrast adjustment

Black level extender

White peak level limiter

Adaptive Luma/Chroma management

3.De-interlacing

2nd generation advanced Motion adaptive de-interlacing

Automatic detect film or video source

3:2/2:2 pull down source detection

Main/PIP 2 independent de-interlacing processor

4.Scaling

2nd generation high resolution arbitrary ratio vertical/horizontal scaling of video,

from 1/32X to 32X

Advanced linear and non-linear Panorama scaling

Programmable Zoom viewer

Picture-in-Picture (PIP)

Picture-Out-Picture (POP)

5.Display

Advanced dithering processing for LCD display with 6/8/10 bit output

10bit gamma correction

Supporting alpha blending for Video and two OSD planes

Frame rate conversion

6. Seamless performance comparing demonstration function

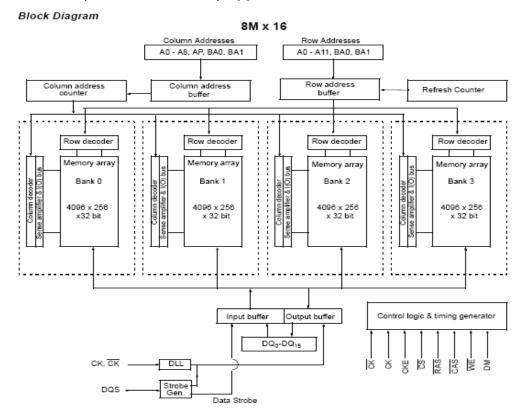
Support Left/Right video processing comparing function without additional resources (DRAM...) for customers' demonstration

All the video functions (De-interlace/3D comb/NR/Flesh tone/CTI) can be included

7.8.8 DRAM Usage

For features of 8206, Dual for enhance features support, and single 16x32 DDR for simple function support Lists are the comparison chart between function support lists of (2xDDR)

7.9 DDR SDRAM (V58C2128164SBI5) Application



7.9.1 Pin description

Signal Pin Description

Pin	Type	Signal	Polarity	Function
CK CK	Input	Pulse	Positive Edge	The system clock input. All inputs except DQs and DMs are sampled on the rising edge of CK.
CKE	Input	Level	Active High	Activates the CK signal when high and deactivates the CK signal when low, thereby initiates either the Power Down mode, or the Self Refresh mode.
CS	Input	Pulse	Active Low	$\overline{\text{CS}}$ enables the command decoder when low and disables the command decoder when high. When the command decoder is disabled, new commands are ignored but previous operations continue.
RAS, CAS WE	Input	Pulse	Active Low	When sampled at the positive rising edge of the clock, $\overline{\text{CAS}}$, $\overline{\text{RAS}}$, and $\overline{\text{WE}}$ define the command to be executed by the SDRAM.
DQS	Input/ Output	Pulse	Active High	Active on both edges for data input and output. Center aligned to input data Edge aligned to output data
A0 - A11	Input	Level		During a Bank Activate command cycle, A0-A11 defines the row address (RA0-RA11) when sampled at the rising clock edge. During a Read or Write command cycle, A0-An defines the column address (CA0-CAn) when sampled at the rising clock edge. CAn depends on the SDRAM organization: 32M x 4 DDR CAn = CA9, A11 16M x 8 DDR CAn = CA9 8M x 16 DDR CAn = CA8 In addition to the column address, A10(=AP) is used to invoke autoprecharge operation at the end of the burst read or write cycle. If A10 is high, autoprecharge is selected and BA0, BA1 defines the bank to be precharged. If A10 is low, autoprecharge is disabled. During a Precharge command cycle, A10(=AP) is used in conjunction with BA0 and BA1 to control which bank(s) to precharge. If A10 is high, all four banks will be precharged simultaneously regardless of state of BA0 and BA1.
BAO, BA1	Input	Level	-	Selects which bank is to be active.
DQx	Input/ Output	Level	-	Data Input/Output pins operate in the same manner as on conventional DRAMs.
DM, LDM, UDM	Input	Pulse	Active High	In Write mode, DM has a latency of zero and operates as a word mask by allowing input data to be written if it is low but blocks the write operation if is high for x 16 LDM corresponds to data on DQ0-DQ7, UDM corresponds to data on DQ8-DQ15.
VDD, VSS	Supply			Power and ground for the input buffers and the core logic.
VDDQ VSSQ	Supply	-	-	Isolated power supply and ground for the output buffers to provide improved noise immunity.
VREF	Input	Level	_	SSTL Reference Voltage for Inputs

7.9.2 Command Truth Table

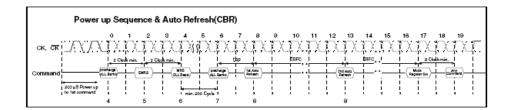
Command		CKEn-1	CKEn	cs	RAS	CAS	WE	ADDR	A10/ AP	ВА	Note				
Mode Register Set		Н	Х	L	L	L	L	OP code		1,2					
Extended Mode Re	gister Set	Н	Х	L	L	L	L	0	P code		1,2				
Device Dese	lect	н	х	Н	Х	Х	Х		х		1				
No Operat	ion		^	L	н	н	Н	X			1				
Bank Activ	/e	Н	Х	L	L	Н	Н	R.A	4	٧	1				
Read		н	х	L	н	L	н	CA	L	v	1				
Read with Autop	recharge	"	^		n .	'	"	CA.	Н	v	1,3				
Write		н	х	L	н	L	L	CA	L	v	1				
Write with Autop	recharge	1 "	^		"	`	١ '	L.A.	Н		1,4				
Precharge All	Banks	н	х	L L H L	х	Н	Х	1,5							
Precharge select	ed Bank	"				п	١ '	_ ^	L	٧	1				
Read Burst :	Stop	Н	Х	L	Н	Н	L	Х		1					
Auto Refre	sh	Н	Н	L	L	L	Н	Х		1					
	Entry	Н	L	L	L	L	Н	х		1					
Self Refresh	Exit	L	н	Н	Х	Х	Х				1				
	EXIC		-	-	_				L	Н	Н	Н			
	Entry	н	L	Н	Х	Х	Х	х			1				
Precharge Power	Lilay		-	L	Н	Н	Н				1				
Down Mode	Exit	L	н	Н	Х	х	Х			1					
	- ZXIC	_		L	Н	Н	Н				1				
	Entry	н	L	Н	Х	Х	Х				1				
Active Power Down Mode	2		`	L	V	٧	٧	х			1				
	Exit	L	Н	Х]			1				

(H=Logic High Level, L=Logic Low Level, X=Don't Care, V=Valid Data Input, OP Code=Operand Code, NOP=No Operation)

7.9.2.1 Power-Up Functional Description

The following sequence is required for POWER UP.

- 1. Apply power and attempt to maintain CKE at a low state (all other inputs may be undefined.)
 - Apply VDD before or at the same time as VDDQ.
 - Apply VDDQ before or at the same time as VTT & Vref.
- 2. Start clock and maintain stable condition for a minimum of 200us.
- 3. The minimum of 200us after stable power and clock (CLK, CLK), apply NOP & take CKE high.
- 4. Precharge all banks.
- 5. Issue EMRS to enable DLL.(To issue "DLL Enable" command, provide "Low" to A0, "High" to BA0 and "Low" to all of the rest address pins, A1~A11 and BA1)
- 6. Issue a mode register set command for "DLL reset". The additional 200 cycles of clock input is required to lock the DLL. (To issue DLL reset command, provide "High" to A8 and "Low" to BA0)
- 7. Issue precharge commands for all banks of the device.
- 8. Issue 2 or more auto-refresh commands.
- 9. Issue a mode register set command to initialize device operation



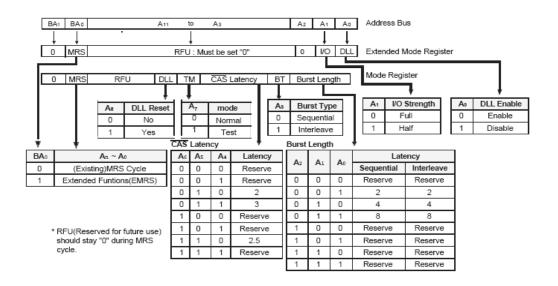
7.9.2.2 Mode Register Set (MRS)

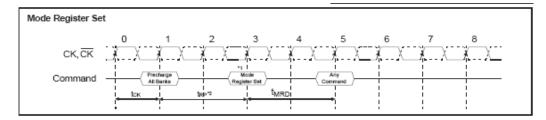
The mode register stores the data for controlling the various operating modes of DDR SDRAM. It programs CAS latency, addressing mode, burst length, test mode, DLL reset and various vendor specific options to make DDR SDRAM useful for a variety of different applications. The default value of the mode register is not defined, therefore the mode register must be written after EMRS setting for proper DDR SDRAM operation.

The mode register is written by asserting low on CS, RAS, CAS, WE and BA0 (The DDR SDRAM should be in all bank precharge with CKE already high prior to writing into the mode register). The state of address pins A0 ~ A11 in the same cycle as CS, RAS, CAS, WE and BA0 low is written in the mode register. Two clock cycles are required to meet tMRD spec.

The mode register contents can be changed using the same command and clock cycle requirements during operation as long as all banks are in the idle state. The mode register is divided into various fields depending on functionality. The burst length uses A0 ~ A2, addressing mode uses A3, CAS latency (read latency from column address) uses A4 ~ A6. A7 is a ProMOS specific test mode during production test. A8 is used for DLL reset. A7 must be set to low for normal MRS operation. Refer to the table for specific codes for various burst length, addressing modes and CAS latencies.

- 1. MRS can be issued only at all banks precharge state.
- 2. Minimum tRP is required to issue MRS command.





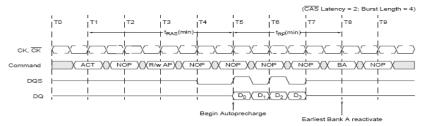
7.9.2.3 Precharge

The Auto Precharge operation can be issued by having column address A10 high when a Read or Write command is issued. If A10 is low when a Read or Write command is issued, then normal Read or Write burst operation is executed and the bank remains active at the completion of the burst sequence. When the Auto Precharge command is activated, the active bank automatically begins to precharge at the earliest possible moment during the Read or Write cycle once tRAS(min) is satisfied.

Read with Auto Precharge

If a Read with Auto Precharge command is initiated, the DDR SDRAM will enter the precharge operation N-clock cycles measured from the last data of the burst read cycle where N is equal to the CAS latency programmed into the device. Once the autoprecharge operation has begun, the bank cannot be reactivated until the minimum precharge time (tRP) has been satisfied.

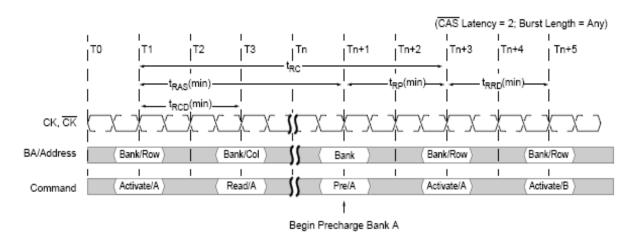




7.9.2.4 Bank Activate Command

The Bank Activate command is issued by holding CAS and WE high with CS and RAS low at the rising edge of the clock. The DDR SDRAM has four independent banks, so two Bank Select addresses (BA0 and BA1) are supported. The Bank Activate command must be applied before any Read or Write operation can be executed. The delay from the Bank Activate command to the first Read or Write command must meet or exceed the minimum RAS to CAS delay time (tRCD min). Once a bank has been activated, it must be precharged before another Bank Activate command can be applied to the same bank. The minimum time interval between interleaved Bank Activate commands (Bank A to Bank B and vice versa) is the Bank to Bank delay time (tRRD min).

Bank Activation Timing



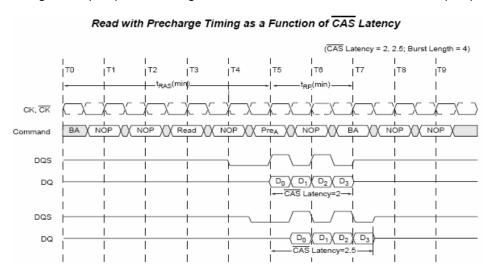
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7.9.2.5 Read Operation

With the DLL enabled, all devices operating at the same frequency within a system are ensured to have the same timing relationship between DQ and DQS relative to the CK input regardless of device density, process variation, or technology generation. The data strobe signal (DQS) is driven off chip simultaneously with the output data (DQ) during each read cycle. The same internal clock phase is used to drive both the output data and data strobe signal off chip to minimize skew between data strobe and output data. This internal clock phase is nominally aligned to the input differential clock (CK, CK) by the on-chip DLL. Therefore, when the DLL is enabled and the clock frequency is within the specified range for proper DLL operation, the data strobe (DQS), output data (DQ), and the system clock (CK) are all nominally aligned. Since the data strobe and output data are tightly coupled in the system, the data strobe signal may be delayed and used to latch the output data into the receiving device. The tolerance for skew between DQS and DQ (tDQSQ) is tighter than that possible for CK to DQ (tAC) or DQS to CK (tDQSCK).

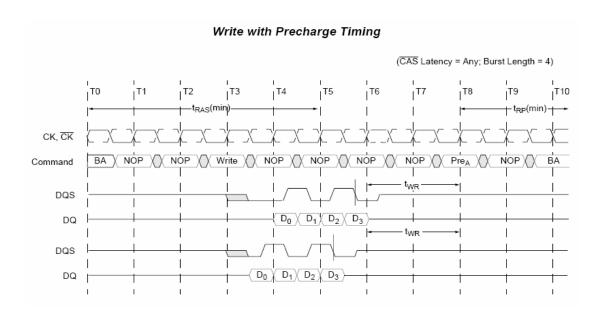
7.9.2.6 Precharge Timing During Read Operation

For the earliest possible Precharge command without interrupting a Read burst, the Precharge command may be issued on the rising clock edge, which is CAS latency (CL) clock cycles before the end of the Read burst. A new Bank Activate (BA) command may be issued to the same bank after the RAS precharge time (tRP). A Precharge command can not be issued until tRAS(min) is satisfied.



7.9.2.7 Precharge Timing During Write Operation

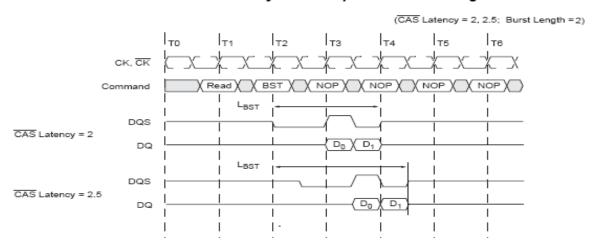
Precharge timing for Write operations in DRAMs requires enough time to satisfy the write recovery requirement. This is the time required by a DRAM sense amp to fully store the voltage level. For DDR SDRAMs, a timing parameter (tWR) is used to indicate the required amount of time between the last valid write operation and a Precharge command to the same bank. The "write recovery" operation begins on the rising clock edge after the last DQS edge that is used to strobe in the last valid write data. "Write recovery" is complete on the next 2nd rising clock edge that is used to strobe in the Precharge command.



7.9.2.8 Burst Stop Command

The Burst Stop command is valid only during burst read cycles and is initiated by having RAS and CAS high with CS and WE low at the rising edge of the clock. When the Burst Stop command is issued during a burst Read cycle, both the output data (DQ) and data strobe (DQS) go to a high impedance state after a delay (LBST) equal to the CAS latency programmed into the device. If the Burst Stop command is issued during a burst Write cycle, the command will be treated as a NOP command.

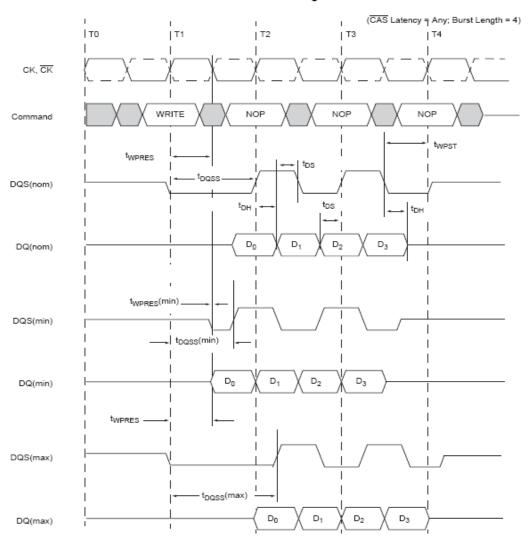
Read Terminated by Burst Stop Command Timing



7.9.2.9 Burst Write Operation

The Burst Write command is issued by having CS, CAS, and WE low while holding RAS high at the rising edge of the clock. The address inputs determine the starting column address. The memory controller is required to provide an input data strobe (DQS) to the DDR SDRAM to strobe or latch the input data (DQ) and data mask (DM) into the device. During Write cycles, the data strobe applied to the DDR SDRAM is required to be nominally centered within the data (DQ) and data mask (DM) valid windows. The data strobe must be driven high nominally one clock after the write command has been registered. Timing parameters tDQSS(min) and tDQSS(max) define the allowable window when the data strobe must be driven high. Input data for the first Burst Write cycle must be applied one clock cycle after the Write command is registered into the device (WL=1). The input data valid window is nominally centered around the midpoint of the data strobe signal. The data window is defined by DQ to DQS setup time (tQDQSS) and DQ to DQS hold time (tQDQSH). All data inputs must be supplied on each rising and falling edge of the data strobe until the burst length is completed. When the burst has finished, any additional data supplied to the DQ pins will be ignored.

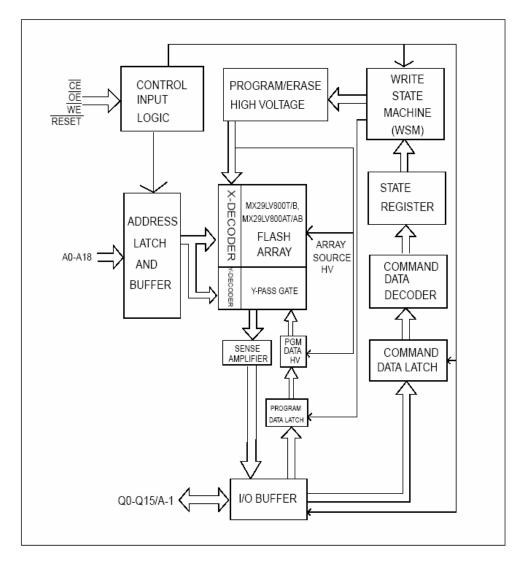
Burst Write Timing



7.10 MX29LV160BTTC (Flash) Application

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

7.10.1 BLOCK DIAGRAM



7.10.2 COMMAND DEFINITIONS

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

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

						ΑI	DDRE	SS					Q8	~Q15
DESCRIPTION	CE	OE	WE	A18	A10	A9	A8	A6	Ą5	A1	Α0	Q0~Q7	BYTE	BYTE
				A12	A11		A7		A2				=VIH	=VIL
Read	L	L	н				AIN					Dout	Dout	=High Z
														DQ15=A-1
Write	L	Н	L				AIN					DIN(3)	DIN	
Reset	×	Х	X				Х					High Z	High Z	High Z
Temporary sector unlock	×	Х	X				AIN					DIN	DIN	High Z
Output Disable	L	н	Н				X					High Z	High Z	High Z
Standby	Vcc ± 0.3V	Х	X	<u> </u>			X					High Z	High Z	High Z
Sector Protect	L	Н	L	SA	X	X	Х	L	X	н	L	DIN	X	×
Sector Unprotected	L	Н	L	X	Х	X	Х	Н	X	н	L	DIN	X	×
Sector Protection Verify	L	L	Н	SA	×	VID	X	L	Х	Н	L	CODE(5)	X	×

NOTES:

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

7.10.3 WRITE COMMANDS/COMMAND SEQUENCES

To program data to the device or erase sectors of memory, the system must drive WE and CE to VIL, and OE to VIH. The device features an Unlock Bypass mode to facilitate faster programming. Once the device enters the Unlock Bypass mode, only two write cycles are required to program a byte, instead of four. The "byte Program Command Sequence" section has details on programming data to the device using both standard and Unlock Bypass command sequences. An erase operation can erase one sector, multiple sectors, or the entire device. Table indicates the address space that each sector occupies. A "sector address" consists of the address bits required to uniquely select a sector. The "Writing specific address and data commands or sequences into the command register initiates device operations. Figure 1 defines the valid register command sequences. Writing incorrect address and data values or writing them in the improper sequence resets the device to reading array data. Section has details on erasing a sector or the entire chip, or suspending/resuming the erase operation.

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

Figure 1

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

7.10.4 READ/RESET COMMAND

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

7.10.5 READING ARRAY DATA

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

7.10.6 RESET COMMAND

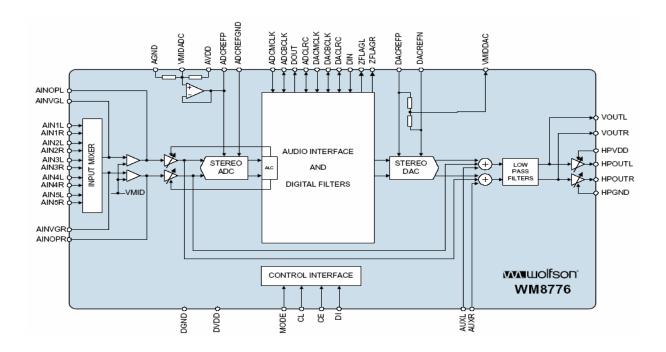
Writing the reset command to the device resets the device to reading array data. Addresses bits are don't care for this command. The reset command may be written between the sequence cycles in an erase command sequence before erasing begins. This resets the device to reading array data. Once erasure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

7.11 WM8776 Application

The WM8776 is a high performance, stereo audio codec with five channel input selector. The WM8776 is ideal for surround sound processing applications for home hi-fi, DVD-RW and other audiovisual equipment. Etch ADC channel has programmable gain control with automatic level control. Digital audio output word lengths from 16-32 bits and sampling rates from 32kHZ to 96KHZ are supported.

The DAC has an input mixer allowing an external analogue signal to be mixed with the DAC signal. There are also Headphone and line outputs, with control for the headphone. The WM8776 supports fully independent sample rates for the ADC and DAC. The audio data interface supports I2S, left justified, right justified and DSP formats.

7.11.1 BLOCK DIAGRAM



1. Audio sample rate

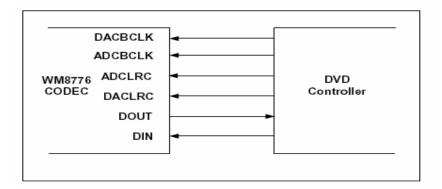
The master clock forWM8776 supports DAC and ADC audio sampling rates 256fs to 768fs, where fs is the audio sample frequency (DACLRC or ADCLRC) typically 32KHZ, 44.1KHZ, 48KHZ or 96KHZ (the DAC also supports operation at 128fs and 192fs and 192KHZ sample rate). The master clock is used to operate the digital filters and the noise shaping circuits. In slave mode the WM8776 has a master detection circuit that automatically determines the relationship between the master clock frequency and the sampling rate (to within +/- 32 system clocks) If there is a greater than 32 clocks error the interface is disabled and ADCLRC/DACLRC for optical performance, although the WM8776 is tolerant of phase variations or jitter on this clock. Table shows the typical master clock frequency inputs for the WM8776

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

7.11.2 DIGITAL AUDIO INTERFACE

1. Slave mode

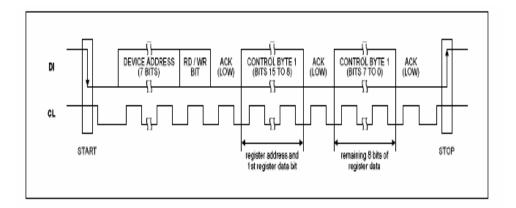
The audio interfaces operations in either slave mode selectable using the MS control bit. In slave mode DIN is always an input to the WM8776 and DOUT is always an output. The default is Slave mode. In slave mode (ms=0) ADCLRC, DACLRC, ADCBCLK, DACBCLK are input to the WM8776 DIN and DACLRC are sampled by the WM8776 on the rising edge of DACBCLK; ADCLRC is sampled on the rising edge of ADCBCLK. ADC data is output on DOUT and changes on the falling edge of ADCBCLK. By setting control bit BCLKINV the polarity of ADCBCLK and DACBCLK may be reversed so that DIN and DACLRC are sample on the falling edge of DACBCLK, ADCLRC is sampled on the falling edge of ADCBCLK and DOUT changes on the rising of ADCBCLK Slave mode as shown in the following figure.



2. 2 Wire serial control mode

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

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



The wm8776 has two possible device addresses, which can be selected using the CE pin In the GV47L LCD TV CE pin is LOW (device address is 34h)

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

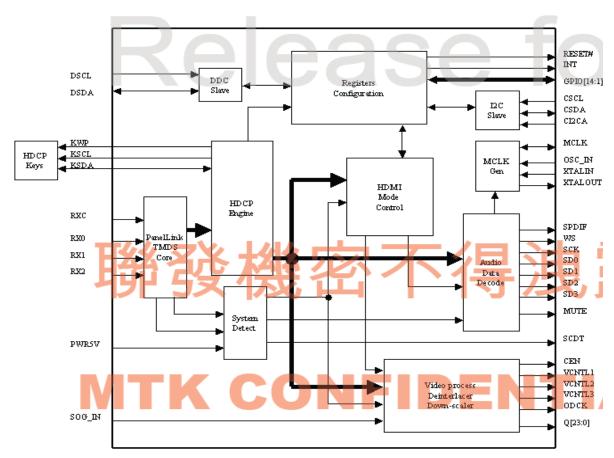
In the GV47L wm8776 has 2-wire interface

MODE	Control Mode
0	2 wire interface
1	3 wire interface

7.12 MT8293 Application

The MT8293 provides a complete solution for receiving HDMI compliant digital audio and video. Specialized audio and video processing is available within the MT8293 to easily and cost effectively adds HDMI capability to consumer electronics devices such as digital TVs, plasma displays, LCD TVs and projectors.

7.12.1 BLOCK DIAGRAM



7.12.2 TMDS Digital Core

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

7.12.3 Active port detection

The Pane Link core detects an active TMDS clock and actively toggling DE signal. These states are accessible in register bits, useful for monitoring the status of the HDMI input or for automatically powering down the receiver. The 5V supply from the HDMI connector is used as a cable detect indicator. The MT8293 can monitor the presence of this+5V supply and, if and when necessary, provide a fast audio mute without pops when it senses the HDMI cable pulled. The microcontroller can also poll registers in the MT8293 to check whether an HDMI cable is connected.

7.12.4 HDCP Decryption

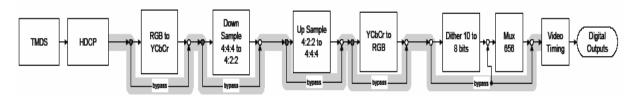
The MT8293 external EEPROM for encrypt HDCP keys. HDCP decryption contains all necessary logic to decrypt the incoming audio and video data. The decryption process is entirely controlled by the host microprocessor through a set sequence of register reads and wires through the DDC channel. Pre-programmed HDCP keys and key Selection Vector are used in the decryption process. A resulting calculated to an XOR mask during each clock cycle to decrypt the audio/video data in sync with the host.

7.12.5 Video Data Conversion and Video Output

The MT8293 can output video in many different formats as shown in the following figure.

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

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



7.12.6 I²c Interface to Display Controller

The Controller I²c interface (CSDA, CSCL) on the MT8293 is a slave interface capable of running up to 400KHZ. This bus is used to configure the MT8293 by reading/writing to the appropriate registers. The MT8293 is accessible on the local I²c bits at two-device address. The logic state of the CI2CA pin is latched on the rising edge of REST# providing a choice of two pairs of device address. Control of local I²c address with CI2CA pin

	Cl2CA = Pull Down	CI2CA = Pull Up
First Device Addr	0x60	0x62
Second Device Addr	0x68	0x6A

7.13 MP7722 & MP7782 Application

In GV47L TV the MP7722 is a dual-channel audio class-D power amplifier with an output power of 2 _ 10 W at an 8 _ load and a 24 V supply.

The other MP7782 is BTL mono output power 20W class-D amplifier at an 8 $\,$ $_{\cdot}$ load and a 24 V supply.

7.13.1 Output power

The output power as a function of the supply voltage is measured on the output pins at THD = 10%,in the GV47L LCD TV DC=24V so we can see as shown in the following figure output about 10W X 2,20W X 1

7.13.2 Mode selection

In the GV47L LCD TV MP7722 has two functional modes, which can be selected by applying the proper DC voltage to pin EN1 and EN2.

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

This allows the input coupling capacitors to be charged to avoid pop-noise. The device is in mute mode when VEN1/EN2 < 2V.

2. Operating — In this mode the amplifier is operating normally. The operating mode is activated at $VEN1/EN2 > 2V\sim6V$

7.14 MT5351 Application:

MediaTek MT5351 is a DTV Backend Decoder SOC which support flexible transport demux , HD MPEG-2 video decoder , JPEG decoder , MPEG1,2,MP3,AC3 audio decoder , HDTV encoder . The MT5351 enables consumer electronics manufactures to build high quality , feature-rich DTV , STB or other home entertainment audio/video device.World-Leading Technology : HW support worldwide major broadcast network and CA standards , include ATSC , DVB , OpenCable , DirectTV , MHP.Rich Feature for high value product : To enrich the feature of DTV , the MT5351 support 1394-5C component to external DVHS . Dual display , PIP/POP and quad pictures provide user a whole new viewing experience.Credible Audio/Video Quality : The MT5351 use advanced motion-adaptive de-interlace algorithm to achieve the best movie/video playback , The embedded 4X over-sample video DAC could generate very fine display quality . Also , the audio 3D surround and equalizer provide professional entertainment.

7.14.1 General Feature List:

- 1. Host CPU:
 - 1. ARM 926EJ
 - 2.16K I-Cache and 16K D-Cache
 - 3. 8K Data TCM and 8K instruction
 - 4. JTAG ICE interface
 - 5. Watch Dog timers

2 . Transport Demuxer:

- 1. Support 3 independent transport stream inputs
- 2. Support serial/parallel interface for each transport stream input
- 3. Support ATSC, DVB, and MPEG2 transport stream inputs.
- 4. Programmable sync detection.
- 5. Support DES/3-DES De-scramble.
- 6. 96 PID filter and 128 section filters.
- 7. Support TS recording via IEEE1394 interface.

3 . MPEG2 Decoder:

- 1. Support dual MPEG-2 HD decoder or up to 8 SD decoder.
- 2. Complaint to MP@ML, MP@HL and MPEG-1 video standards.

4 . JPEG Decoder:

1. Decode Base-line or progressive JPEG file.

5.2D Graphics:

- 1. Support multiple color modes.
- 2. Point, horizontal/vertical line primitive drawing.
- 3. Rectangle fill and gradient fill functions.
- 4. Bitblt with transparent, alpha blending, alpha composition and stretch.
- 5. Font rendering by color expansion.
- 6. Support clip masks.
- 7. YCrCb to RGB color space transfer.

6 . OSD Display:

- 1. 3 linking list OSDs with multiple color mode.
- 2. OSD scaling with arbitary ratio from 1/2x to 2x.
- 3. Square size, 32x32 or 64x64 pixel, hardware cursor.

7. Video Processing:

- 1. Advanced Motion adaptive de-interlace on SDTV resolution.
- 2. Support clip
- 3. 3:2/2:2 pull down source detection.
- 4. Arbitrary ratio vertical/horizontal scaling of video, from 1/15X to 16X.
- 5. Support Edge preserve.
- 6. Support horizontal edge enhancement.
- 7. Support Quad-Picture.

8 . Main Display:

- 1. Mixing two video and three OSD and hardware cursor.
- 2. Contrast/Brightness adjustment.
- 3. Gamma correction.
- 4. Picture-in-Picture(PIP).
- 5. Picture-Out-Picture(POP).
- 6. 480i/576i/480p/576p/720p/1080i output

9 . Auxiliary Display:

- 1. Mixing one video and one OSD.
- 2. 480i/576i output.

10 . TV Encoder:

- 1. Support NTSC M/N, PAL M/N/B/D/G/H/I
- 2. Macrovision Rev 7.1.L1
- 3. CGMS/WSS.
- 4. Closed Captioning.
- 5. Six 12-bit video DACs for CVBS, S-video or RGB/YPbPr output.

11 . Digital Video Interface :

- 1. Support SAV/EAV.
- 2. Support 8/16 for SD/HD digital video input.
- 3. Support 8/16/24 bits digital output for main display.
- 4. Support 8 bits digital output for aux display.

12 . DRAM Controller:

- 1. Support 64Mb to 1Gb DDR DRAM devices.
- 2. Configurable 32/64 bit data bus interface.
- 3. Support DDR266, DDR333, DDR400, JEDEC specification compliant SDRAM.

13 . Peripheral Bus Interface :

- 1. Support NOR/NAND flash.
- 2. Support CableCard host control bus.

14 . Audio :

- 1. Support Dolby Digital AC-3 decoding.
- 2. MPEG-1 layer I/II, MP3 decoding.
- 3. Dolby prologic II.
- 4. Main audio output: 5.1ch + 2ch (down mix)
- 5. Auxiliary audio output: 2ch.
- 6. Pink noise and white noise generator.
- 7. Equalizer.
- 8. Bass management.
- 9. 3D surround processing include virtual surround.
- 10. Audio and video lip synchronization.
- 11. Support reverberation.
- 12. SPDIF out.
- 13. I2S I/F.

15 . Peripherals :

- 1. Three UARTs with Tx and Rx FIFO, two of them have hardware flow control.
- 2. Two serial interfaces, one is master only the other can be set to master mode or slave mode.
- 3. Two PWMs.
- 4. IR blaster and receiver.
- 5. IEEE1394 link controller.
- 6. IDE bus: ATA/ATAPI7 UDMA mode 5, 100MB/s.
- 7. Real-time clock and watchdog controller.
- 8. Memory card I/F: MS/MS-pro, SD, CF, and MMC
- 9. PCMCIA/POD/CI interface

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16 . IC Outline:

- 1. 471 Pin BGA Package.
- 2. 3.3V/1.2V dual Voltage.

7.15 MX29LV320BTTC (Flash) Application:

The MX29LV320AT/B is a 32-mega bit Flash memory organized as 4M bytes of 8 bits and 2M words of 16 bits. MXIC's Flash memories offer the most cost-effective and reliable read/write non-volatile random access memory.

The MX29LV320AT/B is packaged in 48-pin TSOP and 48-ball CSP. It is designed to be reprogrammed and erased in system or in standard EPROM programmers. The standard MX29LV320AT/B offers access time as fast as 70ns, allowing operation of high-speed microprocessors without wait states. To eliminate bus contention, the MX29LV320AT/B has separate chip enable (CE) and output enable (OE) controls.

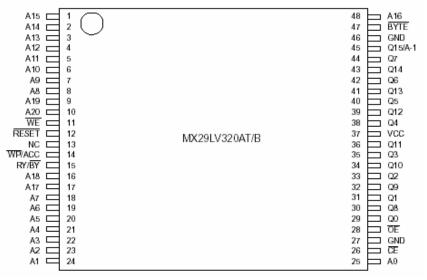
MXIC's Flash memories augment EPROM functionality with in-circuit electrical erasure and programming. The MX29LV320AT/B uses a command register to manage this functionality. MXIC Flash technology reliably stores memory contents even after 100,000 erase and program cycles. The MXIC cell is designed to optimize the erase and program mechanisms. In addition, the combination of advanced tunnel oxide processing and low internal electric fields for erase and programming operations produces reliable cycling.

The MX29LV320AT/B uses a 2.7V to 3.6V VCC supply to perform the High Reliability Erase and auto Program/Erase algorithms.

The highest degree of latch-up protection is achieved with MXIC's proprietary non-epi process. Latch-up protection is proved for stresses up to 100 milliamperes on address and data pin from -1V to VCC + 1V.

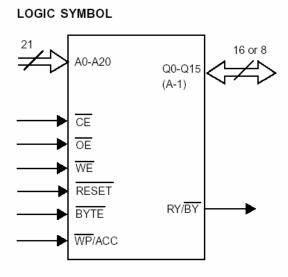
PIN CONFIGURATION

48 TSOP

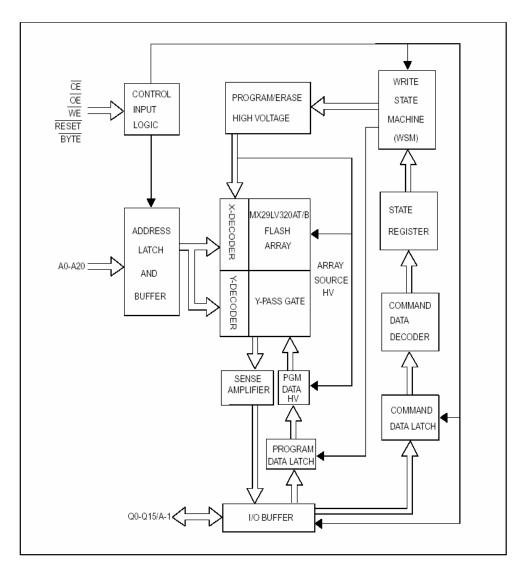


PIN DESCRIPTION

SYMBOL	PIN NAME
A0~A20	Address Input
Q0~Q14	15 Data Inputs/Outputs
Q15/A-1	Q15(Data Input/Output, word mode)
	A-1(LSB Address Input, byte mode)
CE	Chip Enable Input
WE	Write Enable Input
OE	Output Enable Input
BYTE	Word/Byte Selection Input
RESET	Hardware Reset Pin, Active Low
RY/BY	Read/Busy Output
VCC	3.0 volt-only single power supply
WP/ACC	Hardware Write Protect/Acceleration
	Pin
GND	Device Ground
NC	Pin Not Connected Internally



7.15.1 BLOCK DIAGRAM



7.15.2 BUS OPERATION--1

Operation	CE	ΟE	WE	RESET	WP/ACC	Addresses	Q0~Q7	Q8	~ Q15
						(Note 2)		Byte=VIH	Byte=VIL
Read	L	L	Н	Н	L/H	A _{IN}	D _{out}	D _{out}	Q8-A14
									=High-Z
Write (Note 1)	L	Н	L	Н	Note 3	A _{IN}	D _{IN}	D _{IN}	Q15=A-1
Accelerate	L	Н	L	Н	$V_{\rm HH}$	A _{IN}	D _{IN}	D _{IN}	
Program									
Standby	VCC ±	Х	Х	VCC ±	Η	X	High-Z	High-Z	High-Z
	0.3V			0.3V					
Output Disable	L	Н	Н	Н	LΉ	Х	High-Z	High-Z	High-Z
Reset	Χ	Χ	Х	L	L/H	X	High-Z	High-Z	High-Z
Sector Group	L	Н	L	V _{ID}	L/H	Sector Addresses,	D _{IN} , D _{OUT}	Χ	Χ
Protect (Note 2)						A6=L, A1=H, A0=L			
Chip Unprotect	L	Н	L	V _{ID}	Note 3	Sector Addresses,	D _{IN} , D _{OUT}	Χ	Χ
(Note 2)						A6=H, A1=H, A0=L			
Temporary Sector	Х	Χ	Х	V _{ID}	Note 3	A _{IN}	D _{IN}	D _{IN}	High-Z
Group Unprotect									

Legend:

L=Logic LOW=VIL, H=Logic High=VIH, VID=12.0 0.5V, VHH=11.5-12.5V, X=Don't Care, AIN=Address IN, DIN=Data IN,DOUT=Data OUT

Notes:

- 1. When the WP/ACC pin is at VHH, the device enters the accelerated program mode. See "Accelerated Program Operations" for more information.
- 2. The sector group protect and chip unprotect functions may also be implemented via programming equipment. See the "Sector Group Protection and Chip Unprotection" section.
- 3.If WP/ACC=VIL, the two outermost boot sectors remain protected. If WP/ACC=VIH, the two outermost boot sector protection depends on whether they were last protected or unprotected using the method described in "Sector/Sector Block Protection and Unprotection". If WP/ACC=VHH, all sectors will be unprotected.
- 4.DIN or Dout as required by command sequence, data polling, or sector protection algorithm.
- 5.Address are A20:A0 in word mode (BYTE=VIH), A20:A-1 in byte mode (BYTE=VIL).

7.15.3 BUS OPERATION--2

Operation	CE	ŌĒ	WE	A20 to A12	A11 to A10	A 9	A8 to A7	A6	A5 to A2	A1	Α0	Q0-Q7	Q8-Q15
Read Silicon ID	L	L	Н	Χ	Х	V _{ID}	Χ	L	Χ	L	L	C2H	Х
Manufacturer Code													
Read Silicon ID	L	L	Н	Х	Х	V _{ID}	Х	L	Χ	L	Н	A7H	22h(word)
MX29LV320AT													X (byte)
Read Silicon ID	L	L	Н	Χ	Х	V _{ID}	Х	L	Χ	L	Η	A8H	22h(word)
MX29LV320AB													X (byte)
Sector Protect	L	L	Н	SA	Х	V _{ID}	Х	L	Χ	Н	L	01h(1),	Х
Verification												or 00h	
Security Sector	L	L	Н	Х	Х	V _{ID}	Х	L	Χ	Н	Н	99h(2),	Х
Indicater												or 19h	
Bit (Q7)													

Notes:

- 1.Code=00h means unprotected, or code=01h protected.
- 2.Code=99 means factory locked, or code=19h not factory locked.

7.15.4 WRITE COMMANDS/COMMAND SEQUENCES

To program data to the device or erase sectors of memory , the system must drive WE and CE to VIL, and OE to VIH.An erase operation can erase one sector, multiple sectors , or the entire device. A "sector address" consists of the address bits required to uniquely select a sector. Writing specific address and data commands or sequences into the command register initiates device operations. Table A defines the valid register command sequences. Writing incorrect address and data values or writing them in the improper sequence resets the device to reading array data. Section has details on erasing a sector or the entire chip, or suspending/resuming the erase operation.

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

7.15.5 TABLE A. MX29LV320AT/B COMMAND DEFINITIONS

			First E	Bus	Secor	nd Bus	Third	Bus	Fourth B	us	Fifth E	Bus	Sixth	Bus
Command		Bus	Cycl	е	Cyc	de	Сус	le	Cycle		Cycle	Э	Сус	de
		Cycles	Addr	Data	Addr	Data	Addr	Data	Addr	Data	Addr	Data	Addr	Data
Read(Note 5)		1	RA	RD										
Reset(Note 4)		1	XXX	F0										
Automatic Select(Note 5)														
Manufacturer ID	Word	4	555	AA	2AA	55	555	90	X00	C2H				
	Byte	4	AAA	AA	555	55	AAA	90	X00	C2H				
Device ID	Word	4	555	AA	2AA	55	555	90	X01	ID				[
	Byte	4	AAA	AA	555	55	AAA	90	X02					
Security Sector Factory	Word	4	555	AA	2AA	55	555	90	X03	99/19				
Protect Verify (Note 6)	Byte	4	AAA	AA	555	55	AAA	90	X06					[
Sector Protect Verify	Word	4	555	AA	2AA	55	555	90	(SA)X02	00/01				
(Note 7)	Byte	4	AAA	AA	555	55	AAA	90	(SA)X04					
Enter Security Sector	Word	3	555	AA	2AA	55	555	88						
Region	Byte	3	AAA	AA	555	55	AAA	88						
Exit Security Sector	Word	4	555	AA	2AA	55	555	90	XXX	0.0				
	Byte	4	AAA	AA	555	55	AAA	90	XXX	00				
Program	Word	4	555	AA	2AA	55	555	A0	PA	PD				
	Byte	4	AAA	AA	555	55	AAA	A0	PA	PD				
Chip Erase	Word	6	555	AA	2AA	55	555	80	555	AA	2AA	55	555	10
	Byte	6	AAA	AA	555	55	AAA	80	AAA	AA	555	55	AAA	10
Sector Erase	Word	6	555	AA	2AA	55	555	80	555	AA	2AA	55	SA	30
	Byte	6	AAA	AA	555	55	AAA	80	AAA	AA	555	55	SA	30
CFI Query (Note 8)	Word	1	55	98										
	Byte	1	AA	98										
Erase Suspend(Note 9)	•	1	SA	В0										
Erase Resume(Note 10)		1	SA	30										

Legend:

X=Don't care

RA=Address of the memory location to be read.

RD=Data read from location RA during read operation.

PA=Address of the memory location to be programmed.

Addresses are latched on the falling edge of the WE or CE pulse.

PD=Data to be programmed at location PA. Data is latched on the rising edge of WE or CE pulse.

SA=Address of the sector to be erased or verified. Address bits A20-A12 uniquely select any sector. ID=22A7h(Top), 22A8h(Bottom)

Notes:

- 1.All values are in hexadecimal.
- 2. Except when reading array or Automatic Select data, all bus cycles are write operation.
- 3. The Reset command is required to return to the read mode when the device is in the Automatic Select mode or if Q5 goes high.
- 4. The fourth cycle of the Automatic Select command sequence is a read cycle.
- 5. The data is 99h for factory locked and 19h for not factory locked.
- 6. The data is 00h for an unprotected sector/sector block and 01h for a protected sector/sector block. In the third cycle of the command sequence, address bit A20=0 to verify sectors 0~31, A20=1 to verify sectors 32~70 for Top Boot device.
- 7. Command is valid when device is ready to read array data or when device is in Automatic Select mode.
- 8. The system may read and program functions in non-erasing sectors, or enter the Automatic Select mode, when in the erase Suspend mode. The Erase Suspend command is valid only during a sector erase operation.
- 9. The Erase Resume command is valid only during the Erase Suspend mode.

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7.15.6 STANDBY MODE

MX29LV320AT/B can be set into Standby mode with two different approaches. One is using both CE and RESET pins and the other one is using RESET pin only.

When using both pins of CE and RESET, a CMOS Standby mode is achieved with both pins held at $Vcc \pm 0.3V$. Under this condition, the current consumed is less than 0.2uA (typ.). If both of the CE and RESET are held at VIH, but not within the range of VCC $\pm 0.3V$, the device will still be in the standby mode, but the standby current will be larger. During Auto Algorithm operation, Vcc active current (ICC2) is required even CE = "H" until the operation is completed. The device can be read with standard access time (tCE) from either of these standby modes.

When using only RESET, a CMOS standby mode is achieved with RESET input held at Vss $_{\cdot}$ 0.3V, Under this condition the current is consumed less than 1uA (typ.). Once the RESET pin is taken high, the device is back to active without recovery delay. In the standby mode the outputs are in the high impedance state, independent of the OE input.MX29LV320AT/B is capable to provide the Automatic Standby Mode to restrain power consumption during readout of data. This mode can be used effectively with an application requested low power consumption such as handy terminals.

To active this mode, MX29LV320AT/B automatically switch themselves to low power mode when MX29LV320AT/B addresses remain stable during access time of tACC+30ns. It is not necessary to control CE, WE, and OE on the mode. Under the mode, the current consumed is typically 0.2uA (CMOS level).

7.15.7 RESET OPERATION

The RESET pin provides a hardware method of resetting the device to reading array data. When the RESET pin is driven low for at least a period of tRP, the device immediately terminates any operation in progress, tristates all output pins, and ignores all read/write commands for the duration of the RESET pulse. The device also resets the internal state machine to reading array data. The operation that was interrupted should be reinitiated once the device is ready to accept another command sequence, to ensure data integrity.

Current is reduced for the duration of the RESET pulse. When RESET is held at VSS 0.3V, the device draws CMOS standby current (ICC4). If RESET is held at VIL but not within VSS 0.3V, the standby current will be greater. The RESET pin may be tied to system reset circuitry. A system reset would that also reset the Flash memory, enabling the system to read the boot-up firm-ware from the Flash memory.

If RESET is asserted during a program or erase operation, the RY/BY pin remains a "0" (busy) until the internal reset operation is complete, which requires a time of tREADY (during Embedded Algorithms). The system can thus monitor RY/BY to determine whether the reset operation is complete. If RESET is asserted when a program or erase operation is not executing (RY/BY pin is "1"), the reset operation is completed within a time of tREADY (not during Embedded Algorithms). The system can read data tRH after the RESET pin returns to VIH. Refer to the AC Characteristics tables for RESET parameters and to Figure 14 for the timing diagram.

7.15.8 WRITE PROTECT (WP)

The write protect function provides a hardware method to protect boot sectors without using VID.

If the system asserts VIL on the WP/ACC pin, the device disables program and erase functions in the two "outermost" 8 Kbyte boot sectors independently of whether those sectors were protected or unprotected using the method described in Sector/Sector Group Protection and Chip Unprotection". The two outermost 8 Kbyte boot sectors are the two sectors containing the lowest addresses in a bottom-boot-configured device, or the two sectors containing the highest addresses in a top-boot-configured device.

If the system asserts VIH on the WP/ACC pin, the device reverts to whether the two outermost 8K Byte boot sectors were last set to be protected or unprotected. That is, sector protection or unprotection for these two sectors depends on whether they were last protected or unprotected using the method described in "Sector/Sector Group Protection and Chip Unprotection".

Note that the WP/ACC pin must not be left floating or unconnected; inconsistent behavior of the device may result.

7.15.9 SOFTWARE COMMAND DEFINITIONS:

Device operations are selected by writing specific address and data sequences into the command register. Writing incorrect address and data values or writing them in the improper sequence will reset the device to the read mode. Table 3 defines the valid register command sequences. Note that the Erase Suspend (B0H) and Erase Resume (30H) commands are valid only while the Sector Erase operation is in progress. Either of the two reset command sequences will reset the device (whenapplicable).

All addresses are latched on the falling edge of WE or CE, whichever happens later. All data are latched on rising edge of WE or CE, whichever happens first.

7.15.10 WRITE OPERATION STATUS

The device provides several bits to determine the status of a write operation: Q2, Q3, Q5, Q6, Q7, and RY/BY. Table B and the following subsections describe the functions of these bits. Q7, RY/BY, and Q6 each offer a method for determining whether a program or erase operation is complete or in progress. These three bits are discussed first.

Table B. Write Operation Status

	Status		Q7 Note1	Q6	Q5 Note2	Q3	Q2	RY/BY
	Byte/Word Program in Auto F	Q7	Toggle	0	N/A	No Toggle	0	
	Auto Erase Algorithm	0	Toggle	0	1	Toggle	0	
In Progress		Erase Suspend Read (Erase Suspended Sector)	1	No Toggle	0	N/A	Toggle	1
III Plogless	Erase Suspended Mode	Erase Suspend Read (Non-Erase Suspended Sector)	Data	Data	Data	Data	Data	1
		Erase Suspend Program	Q7	Toggle	0	N/A	N/A	0
Evacaded	Byte/Word Program in Auto F	Program Algorithm	Q7	Toggle	1	N/A	No Toggle	0
Exceeded Time Limits	Auto Erase Algorithm	0	Toggle	1	1	Toggle	0	
	Erase Suspend Program	Q7	Toggle	1	N/A	N/A	0	

Notes:

- 1.Performing successive read operations from the erase-suspended sector will cause Q2 to toggle.
- 2.Performing successive read operations from any address will cause Q6 to toggle.
- 3.Reading the byte/word address being programmed while in the erase-suspend program mode will indicate logic "1" at the Q2 bit.

However, successive reads from the erase-suspended sector will cause Q2 to toggle.

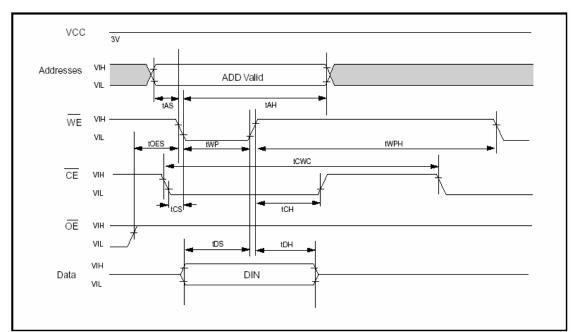
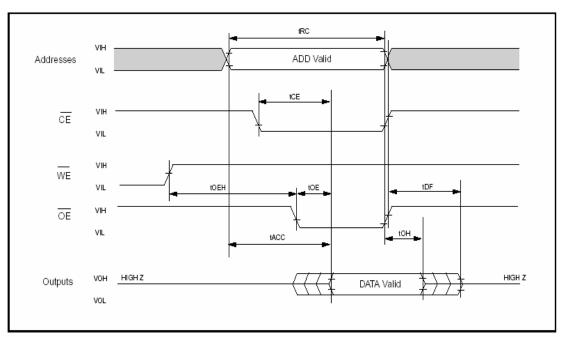


Fig C. COMMAND WRITE OPERATION





AC CHARACTERISTICS										
Parameter	Description	Test Setup	All Speed Options Unit							
tREADY1	RESET PIN Low (During Automatic Algorithms)	MAX	20	us						
	to Read or Write (See Note)									
tREADY2	RESET PIN Low (NOT During Automatic	MAX	500	ns						
	Algorithms) to Read or Write (See Note)									
tRP1	RESET Pulse Width (During Automatic Algorithms)	MIN	10	us						
tRP2	RESET Pulse Width (NOT During Automatic Algorithms	s) MIN	500	ns						
tRH	RESET High Time Before Read(See Note)	MIN	70	ns						
tRB1	RY/BY Recovery Time(to CE, OE go low)	MIN	0	ns						

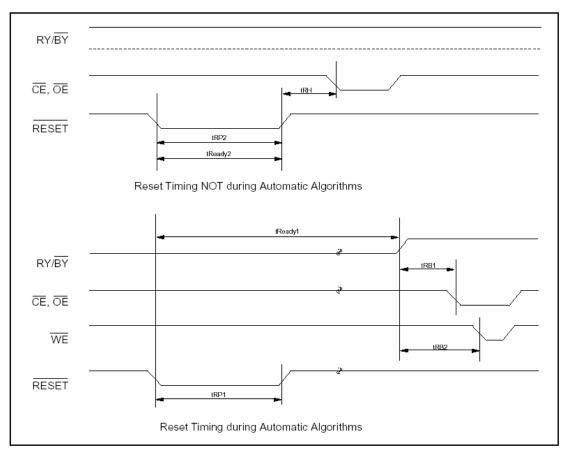
MIN

Note:Not 100% tested

tRB2

Fig E. RESET TIMING WAVEFORM

RY/BY Recovery Time(to WE go low)



ns

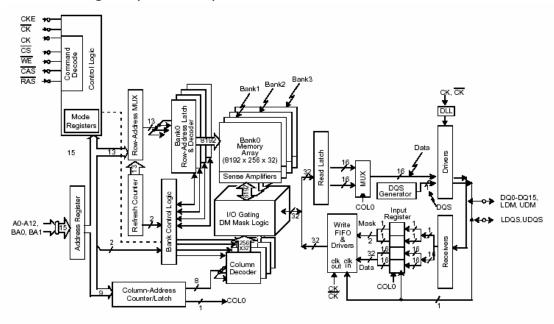
50

7.16 DDR SDRAM (NT5DS16M16CS-5T) Application:

Functional Description

The 256Mb DDR SDRAM is a high-speed CMOS, dynamic random-access memory containing 268, 435, 456 bits. The 256Mb DDR SDRAM is internally configured as a quad-bank DRAM. The 256Mb DDR SDRAM uses a double-data-rate architecture to achieve high-speed operation. The double-data-rate architecture is essentially a 2n prefetch architecture, with an interface designed to transfer two data words per clock cycle at the I/O pins. A single read or write access for the 256Mb DDR SDRAM consists of a single 2n-bit wide, one clock cycle data transfer at the internal DRAM core and two corresponding n-bit wide, one-half clock cycle data transfers at the I/O pins. Read and write accesses to the DDR SDRAM are burst oriented; accesses start at a selected location and continue for a programmed number of locations in a programmed sequence. Accesses begin with the registration of an Active command, which is then followed by a Read or Write command. The address bits registered coincident with the Active command are used to select the bank and row to be accessed (BA0, BA1 select the bank; A0-A12 select the row). The address bits registered coincident with the Read or Write command are used to select the starting column location for the burst access. Prior to normal operation, the DDR SDRAM must be initialized. The following sections provide detailed information covering device initialization, register definition, command descriptions and device operation.

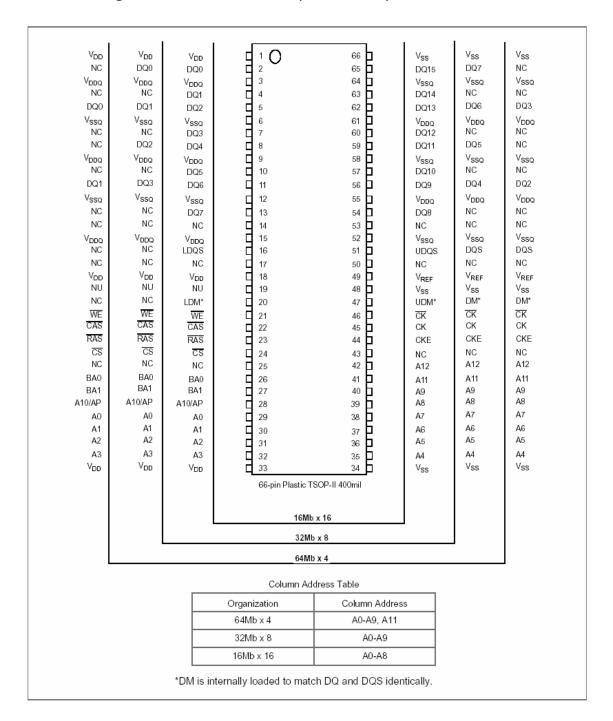
7.16.1 Block Diagram (16Mb x 16)



Note: This Functional Block Diagram is intended to facilitate user understanding of the operation of the device; it does not represent an actual circuit implementation.

Note: DM is a unidirectional signal (input only), but is internally loaded to match the load of the bidirectional DQ and DQS signals.

7.16.2 Pin Configuration - 400mil TSOP II (x4 / x8 / x16)



A11 A10 BA1 BA0 A12 Α9 Α8 Α7 Α6 Α5 A4 АЗ A2 Α1 Α0 Address Bus 0* CAS Latency ВТ Burst Length Mode Register Operating Mode A12 - A9 A6 - A0 Operating Mode Normal operation Burst Valid 0 0 0 А3 Do not reset DLL Туре 0 Normal operation in DLL Reset Sequential 0 0 Valid 1 Interleave Vendor-Specific 0 0 1 Test Mode Reserved **CAS Latency Burst Length** Α5 Burst Length Reserved Reserved 0 0 0 0 0 Reserved 0 0 1 0 0 1 0 4 0 0 3 (Option) 0 Reserved 0 0 Reserved 0 1.5 (Option) 0 Reserved 2.5 0 Reserved Reserved VS** Vendor Specific * BA0 and BA1 must be 0, 0 to select the Mode Register (vs. the Extended Mode Register).

7.16.3 Mode Register Operation

7.16.3.1 Operating Mode

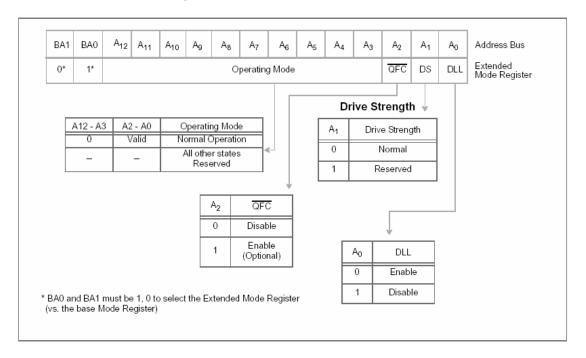
The normal operating mode is selected by issuing a Mode Register Set Command with bits A7-A12 to zero, and bits A0-A6 set to the desired values. A DLL reset is initiated by issuing a Mode Register Set command with bits A7 and A9-A12 each set to zero, bit A8 set to one, and bits A0-A6 set to the desired values. A Mode Register Set command issued to reset the DLL should always be followed by a Mode Register Set command to select normal operating mode.

All other combinations of values for A7-A12 are reserved for future use and/or test modes. Test modes and reserved states should not be used as unknown operation or incompatibility with future versions may result.

7.16.4 Extended Mode Register

The Extended Mode Register controls functions beyond those controlled by the Mode Register; these additional functions include DLL enable/disable, bit A0; output drive strength selection, bit A1; and QFC output enable/disable, bit A2 (NTC optional). These functions are controlled via the bit settings shown in the Extended Mode Register Definition. The Extended Mode Register is programmed via the Mode Register Set command (with BA0 = 1 and BA1 = 0) and retains the stored information until it is programmed again or the device loses power. The Extended Mode Register must be loaded when all banks are idle, and the controller must wait the specified time before initiating any subsequent operation. Violating either of these requirements result in unspecified operation.

7.16.4.1 Extended Mode Register Definition



7.16.4.2 Truth Table a: Commands

Name (Function)	CS	RAS	CAS	WE	Address	MNE	Notes
Deselect (Nop)	Н	Х	Х	Х	Х	NOP	1, 9
No Operation (Nop)	L	Н	Н	Н	Х	NOP	1, 9
Active (Select Bank And Activate Row)	L	L	Н	Н	Bank/Row	ACT	1, 3
Read (Select Bank And Column, And Start Read Burst)	L	Н	L	Н	Bank/Col	Read	1, 4
Write (Select Bank And Column, And Start Write Burst)	L	Н	L	L	Bank/Col	Write	1, 4
Burst Terminate	L	Н	Н	L	Х	BST	1, 8
Precharge (Deactivate Row In Bank Or Banks)	L	L	Н	L	Code	PRE	1, 5
Auto Refresh Or Self Refresh (Enter Self Refresh Mode)	L	L	L	Н	Х	AR / SR	1, 6, 7
Mode Register Set	L	L	L	L	Op-Code	MRS	1, 2

- 1. CKE is high for all commands shown except Self Refresh.
- 2. BA0, BA1 select either the Base or the Extended Mode Register (BA0 = 0, BA1 = 0 selects Mode Register; BA0 = 1, BA1 = 0 selects ,Extended Mode Register; other combinations of BA0-BA1 are reserved; A0-A12 provide the op-code to be written to the selected Mode Register.)
- 3. BA0-BA1 provide bank address and A0-A12 provide row address.
- 4. BA0, BA1 provide bank address; A0-A*i* provide column address (where *i* = 9 for x8 and 9, 11 for x4); A10 high enables the Auto Precharge feature (non-persistent), A10 low disables the Auto Precharge feature.
- 5. A10 LOW: BA0, BA1 determine which bank is precharged.A10 HIGH: all banks are precharged and BA0, BA1 are "Don't Care."
- 6. This command is auto refresh if CKE is high; Self Refresh if CKE is low.
- 7. Internal refresh counter controls row and bank addressing; all inputs and I/Os are "Don't Care" except for CKE.
- 8. Applies only to read bursts with Auto Precharge disabled; this command is undefined (and should not be used) for read bursts with Auto Precharge enabled or for write bursts
- 9. Deselect and NOP are functionally interchangeable.

7.16.4.2.1 Active

The Active command is used to open (or activate) a row in a particular bank for a subsequent access. The value on the BA0,BA1 inputs selects the bank, and the address provided on inputs A0-A12 selects the row. This row remains active (or open) for accesses until a Precharge (or Read or Write with Auto Precharge) is issued to that bank. A Precharge (or Read or Write with Auto Precharge) command must be issued and completed before opening a different row in the same bank.

7.16.4.2.2 Read

The Read command is used to initiate a burst read access to an active (open) row. The value on the BA0, BA1 inputs selects the bank, and the address provided on inputs A0-Ai, Aj (where [i = 9, j = don't care] for x8; where [i = 9, j = 11] for x4) selects the starting column location. The value on input A10 determines whether or not Auto Precharge is used. If Auto Precharge is selected, the row being accessed is precharged at the end of the Read burst; if Auto Precharge is not selected, the row remains open for subsequent accesses.

7.16.4.2.3 Write

The Write command is used to initiate a burst write access to an active (open) row. The value on the BA0, BA1 inputs selects the bank, and the address provided on inputs A0-Ai, Aj (where [i = 9, j = don't care] for x8; where [i = 9, j = 11] for x4) selects the starting column location. The value on input A10 determines whether or not Auto Precharge is used. If Auto Precharge is selected, the row being accessed is precharged at the end of the Write burst; if Auto Precharge is not selected, the row remains open for subsequent accesses. Input data appearing on the DQs is written to the memory array subject to the DM input logic level appearing coincident with the data. If a given DM signal is registered low, the corresponding data is written to memory; if the DM signal is registered high, the corresponding data inputs are ignored, and a Write is not executed to that byte/column location.

7.16.4.2.4 Auto Refresh

Auto Refresh is used during normal operation of the DDR SDRAM and is analogous to CAS Before RAS (CBR) Refresh in previous DRAM types. This command is nonpersistent, so it must be issued each time a refresh is required. The refresh addressing is generated by the internal refresh controller. This makes the address bits "Don't Care" during an Auto Refresh command. The 256Mb DDR SDRAM requires Auto Refresh cycles at an average periodic interval of 7.8µs (maximum).

7.16.4.2.5 Self Refresh

The Self Refresh command can be used to retain data in the DDR SDRAM, even if the rest of the system is powered down. When in the self refresh mode, the DDR SDRAM retains data without external clocking. The Self Refresh command is initiated as an Auto Refresh command coincident with CKE transitioning low. The DLL is automatically disabled upon entering Self Refresh, and is automatically enabled upon exiting Self Refresh (200 clock cycles must then occur before a Read command can be issued). Input signals except CKE (low) are "Don't Care" during Self Refresh operation.

The procedure for exiting self refresh requires a sequence of commands. CK (and CK) must be stable prior to CKE returning high. Once CKE is high, the SDRAM must have NOP commands issued for tXSNR because time is required for the completion of any internal refresh in progress. A simple algorithm for meeting both refresh and DLL requirements is to apply NOPs for 200 clock cycles before applying any other command.

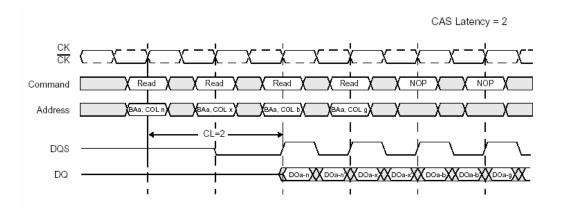
7.16.4.2.6 Operations:

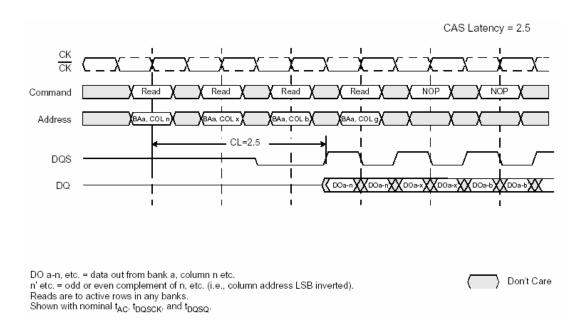
Reads

Subsequent to programming the mode register with CAS latency, burst type, and burst length, Read bursts are initiated with a Read command.

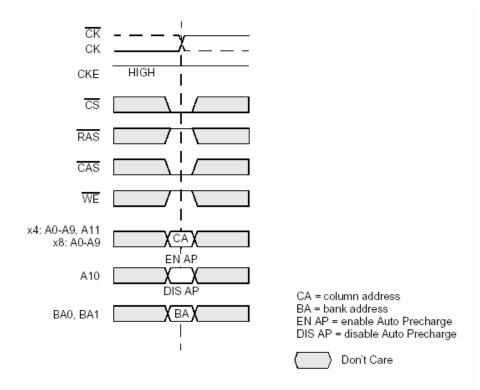
The starting column and bank addresses are provided with the Read command and Auto Precharge is either enabled or disabled for that burst access. If Auto Precharge is enabled, the row that is accessed starts precharge at the completion of the burst, provided tRAS has been satisfied. For the generic Read commands used in the following illustrations, Auto Precharge is disabled. During Read bursts, the valid data-out element from the starting column address is available following the CAS latency after the Read command. Each subsequent data-out element is valid nominally at the next positive or negative clock edge (i.e. at the next crossing of CK and CK). The following timing figure entitled "Read Burst: CAS Latencies (Burst Length=4)" illustrates the general timing for each supported CAS latency setting. DQS is driven by the DDR SDRAM along with output data. The initial low state on DQS is known as the read preamble; the low state coincident with the last data-out element is known as the read postamble. Upon completion of a burst, assuming no other commands have been initiated, the DQs and DQS goes High-Z. Data from any Read burst may be concatenated with or truncated with data from a subsequent Read command. In either case, a continuous flow of data can be maintained. The first data element from the new burst follows either the last element of a completed burst or the last desired data element of a longer burst which is being truncated. The new Read command should be issued x cycles after the first Read command, where x equals the number of desired data element pairs (pairs are required by the 2n prefetch architecture). This is shown in timing figure entitled "Consecutive Read Bursts: CAS Latencies (Burst Length =4 or 8)". A Read command can be initiated on any positive clock cycle following a previous Read command. Nonconsecutive Read data is shown in timing figure entitled "Non-Consecutive Read Bursts: CAS Latencies (Burst Length = 4)". Full-speed Random Read Accesses: CAS Latencies (Burst Length = 2, 4 or 8) within a page (or pages) can be performed as shown on following:

Random Read Accesses: CAS Latencies (Burst Length = 2, 4 or 8)





Read Command



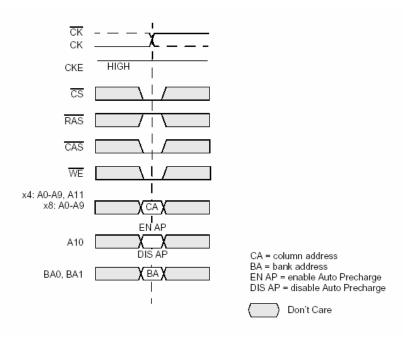
Writes

Write bursts are initiated with a Write command, as shown in timing figure *Write Command* on following: The starting column and bank addresses are provided with the Write command, and Auto Precharge is either enabled or disabled for that access. If Auto Precharge is enabled, the row being accessed is precharged at the completion of the burst. For the generic Write commands used in the following illustrations, Auto Precharge is disabled.

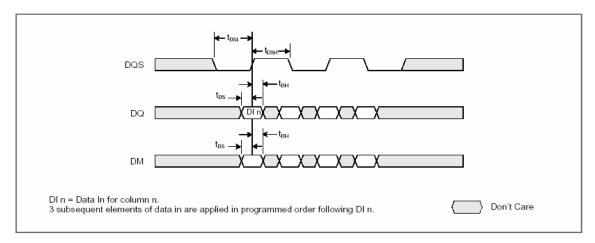
During Write bursts, the first valid data-in element is registered on the first rising edge of DQS following the write command, and subsequent data elements are registered on successive edges of DQS. The Low state on DQS between the Write command and the first rising edge is known as the write preamble; the Low state on DQS following the last data-in element is known as the write postamble.

The time between the Write command and the first corresponding rising edge of DQS (tDQSS) is specified with a relatively wide range (from 75% to 125% of one clock cycle), so most of the Write diagrams that follow are drawn for the two extreme cases (i.e. tDQSS(min) and tDQSS(max)). Timing figure *Write Burst (Burst Length = 4)* on page 33 shows the two extremes of tDQSS for a burst of four. Upon completion of a burst, assuming no other commands have been initiated, the DQs and DQS enters High-Z and any additional input data is ignored. Data for any Write burst may be concatenated with or truncated with a subsequent Write command. In either case, a continuous flow of input data can be maintained. The new Write command can be issued on any positive edge of clock following the previous Write command. The first data element from the new burst is applied after either the last element of a completed burst or the last desired data element of a longer burst which is being truncated. The new Write command should be issued x cycles after the first Write command, where x equals the number of desired data element pairs (pairs are required by the 2n prefetch architecture).

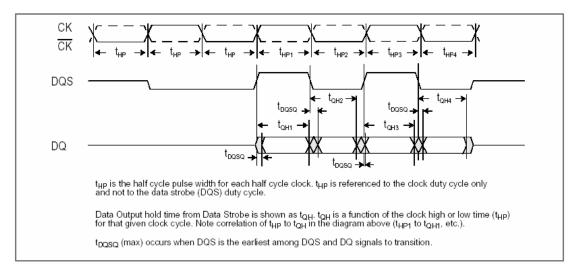
Write Command



Data Input (Write)



Data Output (Read)

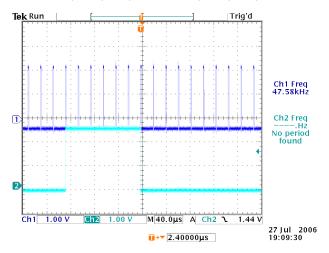


File No. SG-0208

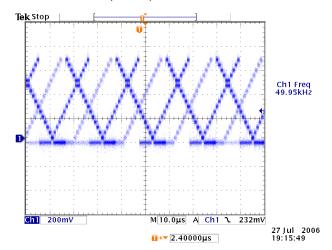
Chapter8 Waveforms

PC MODE(1360X768 60HZ)

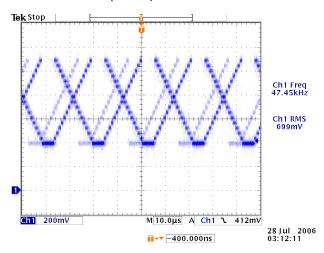
CH1 H-sync (L21); CH2 V-sync (L22)



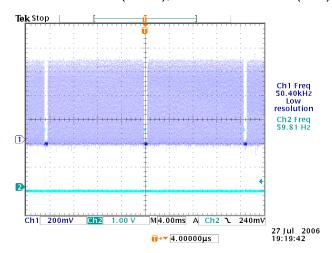
CH1 GREEN (FB27)



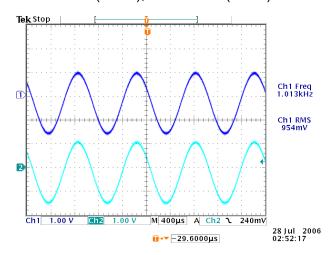
CH1 GREEN+(C294)



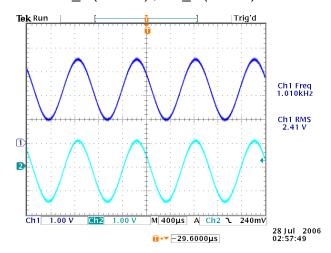
CH1 GREEN # (FB27); CH2 VGAVSYNC (L22)



CH1 VGAL (R193); CH2 AVOL (R194)

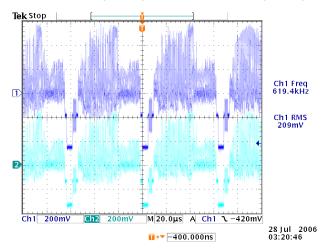


CH1 PC_L (CE70+); PC_L (CE70-)

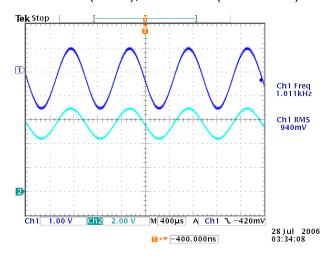


AV&TV MODE (AV1/AV2/TV) VIDEO

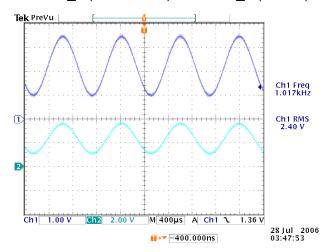
CH1 CVBS2 (R169); CH2 AV2CVBS (C255)



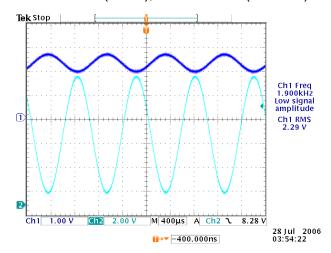
CH1 AV2L (R237); CH2 AV2L (U22 PIN14)



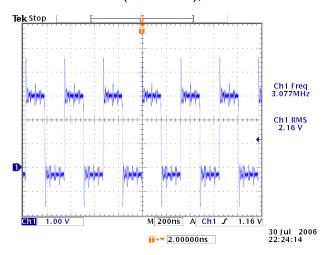
CH1 AV_L (U22 PIN13); CH2 AV_L (CE71-)



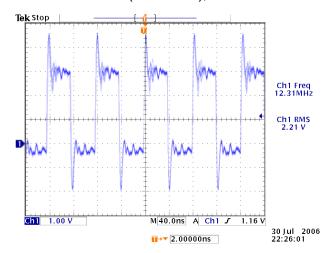
CH1 AUSPL (R302);CH2 OUT2+5(J4 PIN4)



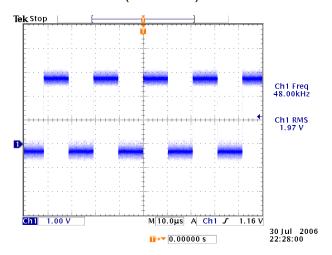
CH1 DACBCLK (U23 PIN4);



CH1 DACMCLK (U23 PIN5);

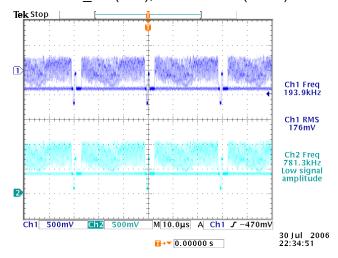


CH1 DACLRCK (U23 PIN7)

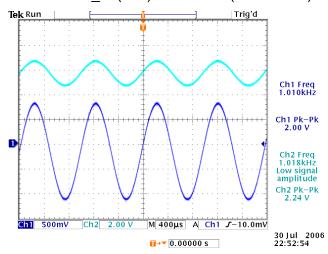


COMPONENT MODE (COMPONENT 1/2)

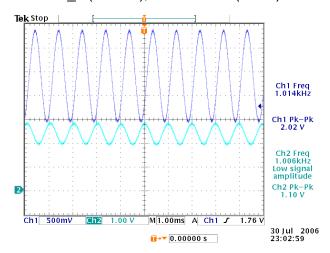
CH1 COM_Y2 (L16); CH2 AVY1P (C269)



CH1YCBCR_L2(L19) CH2 2A33 (U22 PIN11)

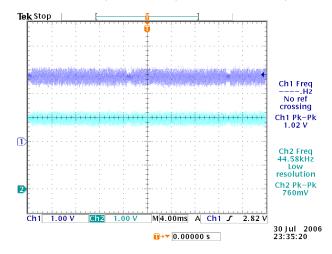


CH1 AV_L (CE71+);CH2 AUSPL (R304)

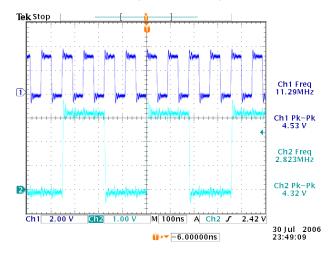


HDMI 1&2

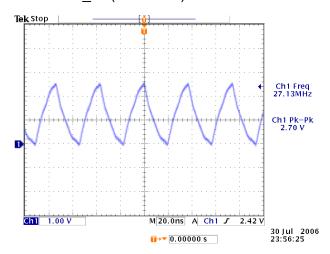
CH1 RX1_2 (P11 PIN 1); CH2 DATA2+ (U31 PIN3)



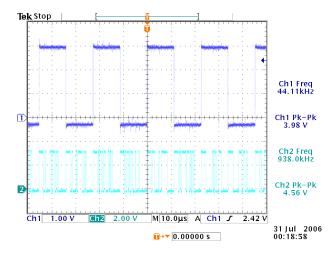
CH1 HDMIMCLK (U19 PIN 79); CH2 HDMIBCLK (U19 PIN 76)



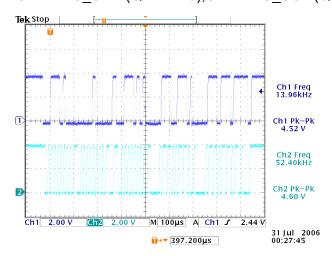
CH1 SOG_IN (U19 PIN4)



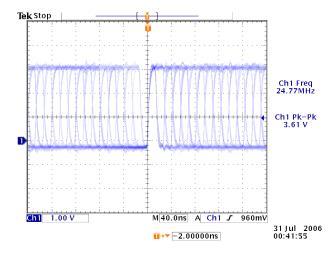
CH1 HDMILRCK (U19 PIN75) CH2 HDMISDO (U19 PIN74)



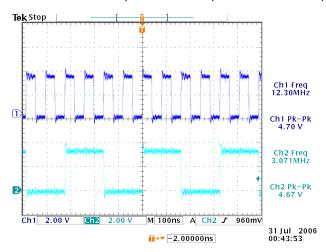
CH1 DDC_SDA (Q14 PIN3);CH2 DDC_SCL (Q13 PIN3)



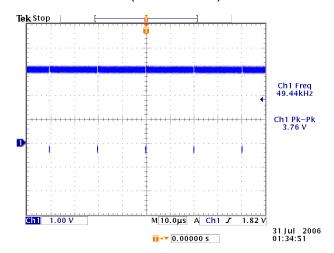
DTV HD CH1 VOB0 (RP35)



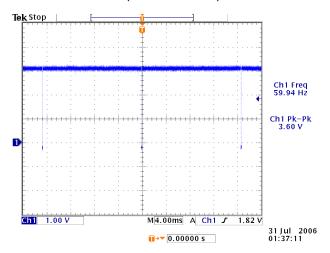
CH1 AO1MCLK (DU9 PIN J1) CH2 AO1BCK (DU9 PIN J2)



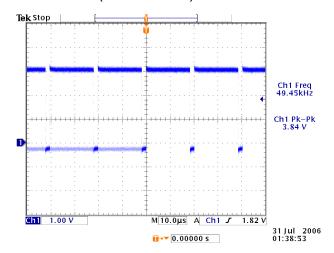
CH1 VOHSYNC (DU9 PIN V4)



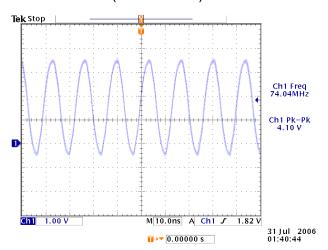
CH1 VOVSYNC (DU9 PIN W1)



CH1 VODE (DU9 PIN W2)

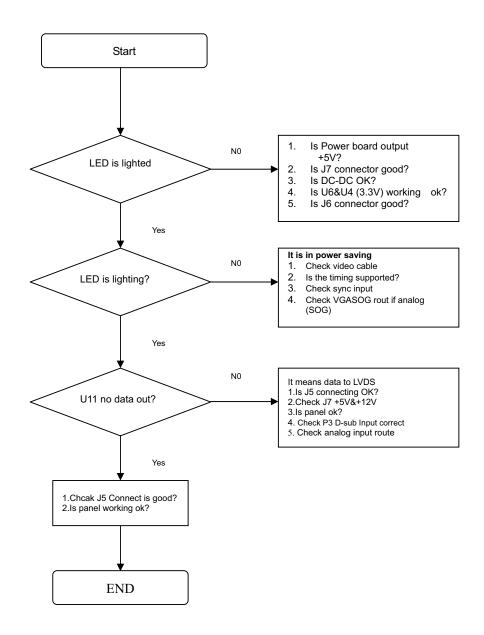


CH1 VOPCLK (DU9 PIN V3)

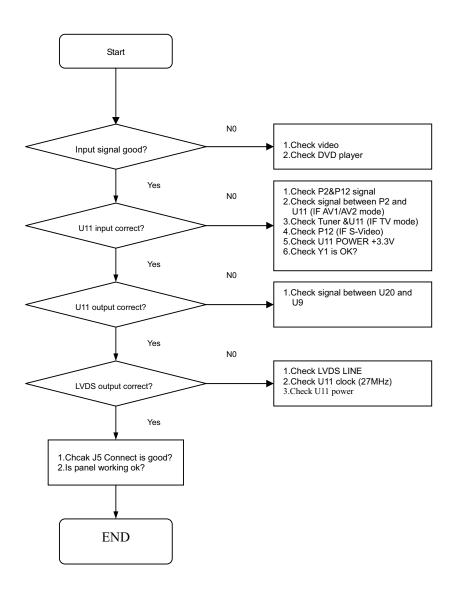


Chapter 9 Trouble shooting

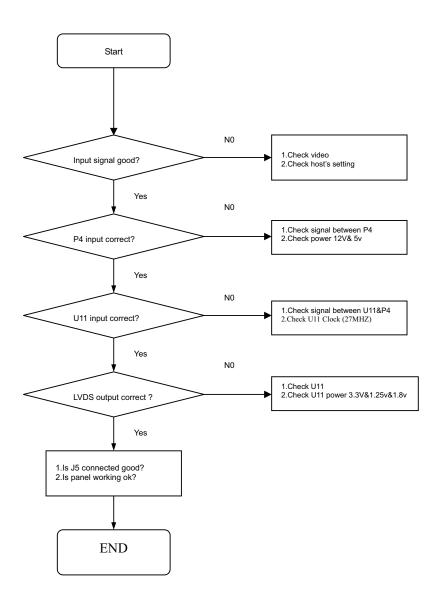
MONITOR DISPLAY NOTHING (PC MODE)



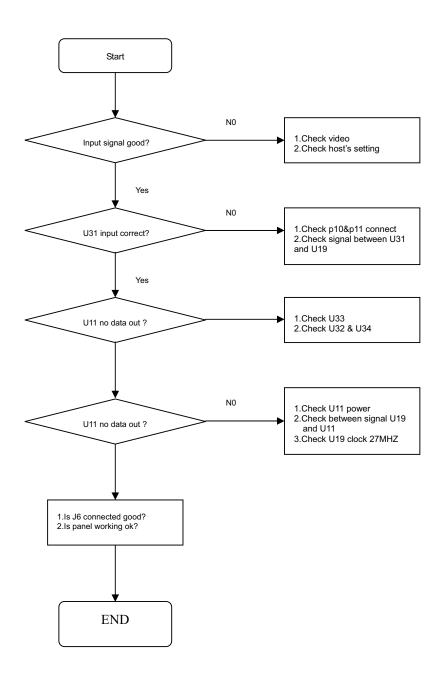
(TV, COMPOSITE VIDEO1, 2, S-VIDEO) IS NOT DISPLAY CORRECTLY



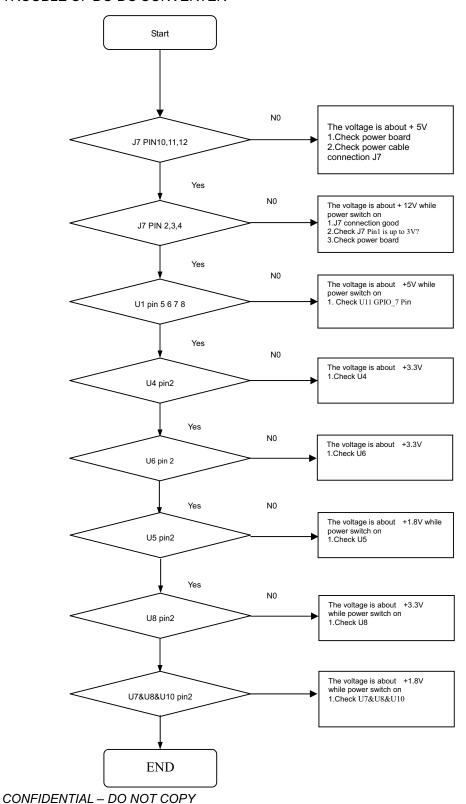
(COMPONENT1, 2) IS NOT DISPLAY CORRECTLY



(HDMI) IS NOT DISPLAY CORRECTLY



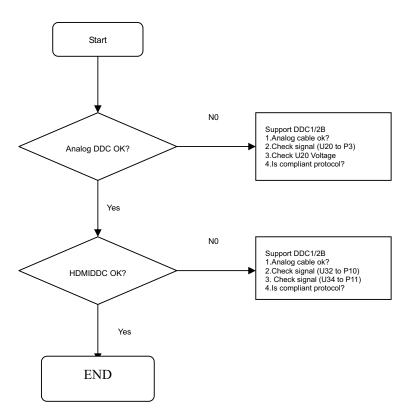
TROUBLE OF DC-DC CONVERTER



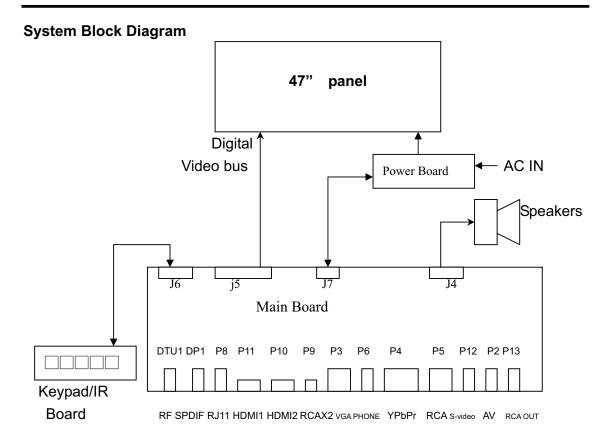
Page 9-5

File No. SG-0208

TROUBLE OF DDC READING



Chapter 10 Block Diagram



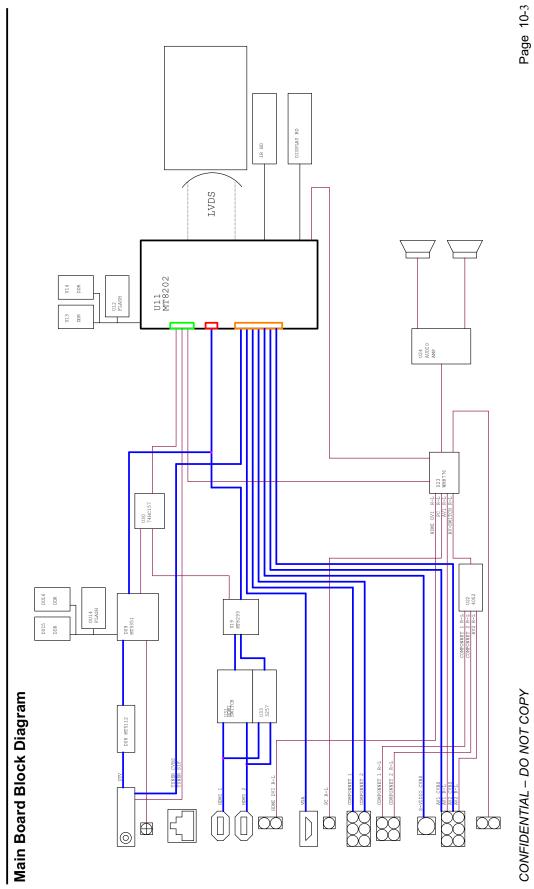
The TV system block diagram is powered by power board that transforms AC source of 100V~240V AC +/- 10% @ 50/60 HZ into DC 5V & 12V& 24Vsource. The main board receives different types of video signal into the MTK8206 Ic. Afterward, the MTK8206 Ic process the signals control the various functions of the monitor and outputs control signal, video signal and power to the 47" WUXGA panel to be displayed.

The power send to the panel is first processed by the inverter. The function of the inverter is to step up the voltage supplied by the main board to the power that is needed to light up the lamps in the panel. Simultaneously, the digital video signals are processed in the panel and the outcome determines the brightness, pixel on/off and the color displayed on the panel. The analog video signals of S-video, YPbPr, TV, PC and A/V all video signals are translated from analog signals into MTK8206 generates the vertical and horizontal timing signals for display device. The analog audio of s-video, YpbPr, TV, PC and A/V is transmitting to the WM877 processed.

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The purpose is process the input audio signal to control volume, bass, treble, surround, and balance. The HDMI video and audio is must transmitting to MT8293 processed then TMDS signal to the MTK8206 generates the vertical and horizontal timing signals for display device. All functions are controllable by the main board. Plus, all functions in the IC boards are programmable using I2C Bus.



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File No. SG-0208

Chapter 11 Spare Parts List

PART NO	DESCRIPTION	LOC	QTY	REMARK
018511520073	FUSE 125V/1.5A SMD (R45101.5) L-F	F1 F4 F6	3	
043060077072	IC N2576SG-5 SMD 5PIN (TO-263) L-F	U4	1	
043060111072	IC N2576SG-ADJ TO-263 5PIN LF	U1	1	
028025000012	X'TAL 25MHZ 49/US 30PPM 20PF LF	DY1	1	
028027000012	X'TAL 27MHZ 49/US 30PPM 20PF 40ohm	Y1	1	
043040133109	IC TDA8946AJ 17PIN DIP LF	U24	1	
043060113210	IC MC7805CTG 3PIN TO-220 LF	DU1	1	
098001033060	MODULE TUNER DTVS205CH201A L-F	DTU1	1	
041050005610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	Q2 Q38	2	
018511520073	FUSE 125V/1.5A SMD (R45101.5) L-F	F1 F2 F3	3	
018513020073	FUSE 125V/3A SMD (R451003) LF	F4	1	
028627000024	OSC 27MHz 25ppm 3.3V SMD VCXO	DX1	1	
041050005610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	Q1 Q10 Q11 Q12 Q15 Q18 Q19 Q20 Q21 Q23 Q24 Q25 Q27 Q28 Q29 Q3 Q31 Q32 Q33 Q39 Q4 Q5 Q9	23	
041050005710	TRANSISTOR MMBT3906LT1G SOT-23 L-F	Q22	1	
042010049621	MOSFET N-CH 2N7002E-T1-E3 SMD (SOT-23) L-F	Q13 Q14 Q34	3	
042010054601	POWER MOS IRF7316TRPBF SMD 8PIN LF	U1	1	
042010064601	MOSFET N-CH 11A 30V FDS6690A SOP-8 LF	U25	1	
043000018015	IC CD4052BNSR 16PIN SOP16 L-F	U22 U29	2	
043000018015	IC TTL LOGIC CD74HC157M96 SOIC 16PIN LF	U30	1	
043010108013		U21	1	
	IC DUAL OP AMP NJM4558M-TE3_PB SO8(DMP8) L-F	U28		
043030043011	IC AT24C16AN-10SU-2.7 SO-8 L-F	U17	1	
043030069011	IC AT24C04N-10SU-2.7 SO-8 L-F	_	1	
043030393645	IC MX29LV160CTTC-70G 48PIN TSOP LE	U12	1	
043030394645	IC MX29LV320CTTC-70G 48PIN TSOP LF	DU14	1	
043030396011	IC AT24C02BN-10SU-1.8 8Pin SOIC L-F	U20 U32 U34	3	
043060028079 043060055079	IC AP1117E25LA SOT-223 L-F IC AP1117E18LA LF SOT-223	DU3 U16 U10 U5 U7	2 4	
		U9 DU2 U4 U6		
043060075079	IC AP1117E33LA LF SOT-223	U8	4	
043060091051	IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF	DU4 U18 DU17	2	
043060109028	IC G2996F1Uf 8PIN SOP-8(FD) LF	U15	2	
043060155079	IC STEP DOWN CONVERTER AP1513SA SOP 8PIN LF	DU5 DU6	2	
043060158079	IC DC/DC CONVERTER AP1522WA SOT23-5 5PIN LF	DU18	1	
043060167099	IC RESET STL8110GCL300 3V SOT-23 3PIN LF	U27	1	
043070273699	IC WM8776SEFT 48PIN TQFP L-F	U23	1	
043070319603	IC DDR 16Mx16 NT5DS16M16CS-5T 66PIN TSOPII LF	DU15 DU16	2	
043070351999	IC MT5351AG 471PIN BGA LF	DU9	1	
043070374629	IC DDR 8Mx16 V58C2128164SBI5 66PIN TSOP-II LF	U13 U14	2	
043070416999	IC HDMI CINEMA RECEIVER MT8293AE-L 128Pin QFP LF	U19	1	
043070428999	IC SCALER MT8202AG/BD-L BGA 388PIN LF	U11	1	
043070431999	IC DEMODULATOR MT5112BD LQFP 100PIN LF	DU8	1	
043070435092	IC SWITCH PI5C3257QE QSOP 16PIN LF	DU7 U33	2	
043070441092	IC SWITCH PI3HDMI412FTZHE TQFN 42PIN LF	U31	1	
364200120146	LCD CONNECTOR BD ASS'Y (GV42L HDTV)		1	

PART NO	DESCRIPTION	LOC	QTY	REMARK
364200220189	IR BD ASS'Y GV42L HDTV		1	
364600120146	LCD CONNECTOR BD ASS'Y (GV46L HDTV)		1	
364700120137	AUDIO BD ASS'Y GV47L FHDTV10		1	
364700120150	MAIN BD ASS'Y GV47L FHDTV10A		1	
364700120156	DISPLAY BD ASS'Y GV47L FHDTV		1	
364700120319	Acoustic Right BOXES ASS'Y (GV47L FHDTV10A)		1	
364700120395	AL TAPE ASS'Y (GV47L FHDTV10A)		1	
364700220319	Acoustic Left BOXES ASS'Y (GV47L FHDTV10A)		1	

Chapter 12 Complete Parts List

2647-8500-1053 LCD TV Monitor 47" GV47L FHDTV10A (LG)(PC,BLACK)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			3647-0012-0312	PACKING ASS'Y GV47L FHDTV10A	1
2			3647-0012-0331	PANEL ASS'Y GV47L FHDTV10A (PMMA, BLACK)(LG)	1
3			3647-0012-0334	BASE ASS'Y GV47L FHDTV10A (ABS, SILVER)	1

3647-0012-0312 PACKING ASS'Y GV47L FHDTV10A

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			1701-0524-5010	BASE COVER (GV47L)(ABS, SILVER)	1
2			1701-0800-2170	REAR PLATE_L VIZIO GV47L FHDTV10A	1
3			1701-0800-2240	REAR PLATE_R VIZIO GV47L FHDTV10A	1
4			1701-1500-1430	CABLE CLIP (GV42L HDTV)	1
5			1925-1000-3540	EPE FOAM-Bottom Middle(GV46L)	1
6			1925-1000-3610	EPE FORM TOP_L (GV47L)	1
7			1925-1000-3620	EPE FORM TOP_R (GV47L)	1
8			1925-1000-3630	EPE FOAM BOTTOM_L (GV47L)	1
9			1925-1000-3640	EPE FOAM BOTTOM_R (GV47L)	1
10			1925-1100-2420	EPE BAG 1330*1200*1.0t (GV47L)	1
11			1925-1200-9220	CARTON VIZIO GV47L FHDTV10A	1
12			1925-1200-9420	CARTON TRAY(GV47L)	1
13			1925-1900-0630	CARTON JOINT(GV46L)	4
14			1936-1100-8840	B/C LBL VIZIO GV47L FHDTV10A	1
15			1936-1300-1550	SERIAL NO.LBL byd:sign	1
16			1936-1600-1180	TECHNOLOGY LOGO LBL VIZIO VX20L/32/37 HDTV	1
17			1936-1600-1240	STC LBL VIZIO GV47L FHDTV10A	1
18			1947-1200-1560	FILAMENT TAPE (TIBON 25wide)	0.72
19			1947-1200-2580	BLUE TAPE (18*50mm)(KLV-20SP2)	0.1
20			1947-2500-0100	Film T(1075L*83W*0.05t)(GV47L)	1
21			1947-2500-0110	Film D(1075L*67W*0.05t)(GV47L)	1
22			1947-2500-0120	Film L(740L*77W*0.05t)(GV47L)	2
23			3647-0012-0393	ACCESSARY ASS'Y GV47L FHDTV10A	1

3647-0012-0331 PANEL ASS'Y GV47L FHDTV10A (PMMA, BLACK)(LG)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			0211-0470-0461	LCD MODULE 47.0" TFT LC470WU01-SLC1 (LG.PHILIPS)	1
2			0260-0000-0340	AC INLET +VHR5P 1617#22 250mm 1015#18 80mm	1
3			0460-1007-0310	WH P24267-P24266 1007#26 150mm	1
4			0460-1008-0492	WH A2001-8P-A2001-4P+A1251-8P 2464#28 880/780mm	1
5			0460-1014-0130	WH A2001H02-14P/A2543H00-13P 1007#24 900mm	1
6			0460-1102-0120	WH A2501-2P-A2501-2P 1007#22 450mm	1
7			0460-1104-0100	WH A2501-4P-A2543-4P 1007#22 300mm +CORE	1
8			0460-1106-0232	WH A2501-6P-A2501-6P 1007#22 920mm+CORE+TUBE	1
9			0460-3430-0950	WH FI-RE51HL-P240430 20276#30 330mm + CORE	1
10			0460-4013-0150	WH A2543H00-13P/A2001H02-12P 1007#24 900mm	1
11			0460-4015-0050	WH A2543H00-15P/A2001H02-15P 1007#26 280mm+CORE	1
12			0500-0507-0260	POWER BD ASS'Y DPS-475AP L-F	1
13			0950-0000-0010	License: Dolbly-AC3 Two-Channel Dolby Digital Deco	1
14			0950-0000-0020	License: MPEG-LA Consumer Products	1
15			0950-0000-0030	License: HDMI	1
16			0960-0000-0090	SOFTWARE MTK HDCP KEY w/mask CODE (Taiwan)	1
17			0980-0700-0030	LED BACKLIGHT 18*50 LYSB-4916W/SY 580mm	1
18			1701-0900-2230	MYLAR 341*22*0.4mm (GV47L)	1
19			1701-1500-0220	WIRE SADDLE (CH-02)	8
20			1701-1500-0450	WIRE SADDLE (CH-01P)	9
21			1701-1500-0690	WIRE SADDLE (CH-14)	1
22			1701-1500-1080	EDGE SADDLE DS-12 (NYLON)	1
23			1701-1500-1670	SPACER SUPPORT (TCL-07)	2
24			1701-1500-2530	EDGE SADDLE DS-10	1
25			1701-1500-2540	CANOE CLIP (MB-05A)(GV47L)	1
26			1712-0101-0810	PANEL BKT B_SUPPORT (GV47L)(SECC T=1.0mm)	1
27			1712-0101-0820	PCB SUPPORT (GV47L)(SECC T=0.8mm)	1
28			1712-0200-0500	PANEL BKT L (GV47L)(SGCC T=1.6mm)	1
29			1712-0200-0510	PANEL BKT R (GV47L)(SGCC T=1.6mm)	1
30			1712-0200-0520	BASE SUPPORT (GV47L)(SGCC T=1.6mm)	2
31			1712-0200-0530	REAR COVER (GV47L)(SGCC T=0.8mm)	1
32			1712-0200-0540	IO BKT (GV47L)(SGCC T=0.8mm)	1
33			1720-0004-0851	MAC. SCREW-MB(point) M4.0*8.0L_,BLK-Ni	14
34			1720-1204-0820	MAC. SCREW-MPGW M4.0*8.0L,Ni	1
35			1720-1504-0820	MAC. SCREW-MPSWF M4.0*8.0L,NI	8
36			1720-1504-1221	MAC. SCREW-MPSWF(Point) M4.0*12.0L,Ni	4
37			1720-3003-0850	MAC. SCREW-MF M3.0*8.0L,BLK-Ni	2
38			1720-4003-0600	MAC. SCREW-MRF M3.0*6.0L,Zn(L27-CBJ)	23
39			1720-4003-0650	MAC. SCREW-MRF M3.0*6.0L, BLK-Ni	33
40 41			1720-7344-0820	MAC. SCREW-MHSW #4-40*8.0L,Ni	2 23
41			1721-0003-0850 1723-1504-2850	TAP. SCREW-TB #3.0*8.0L,BLK-Ni TAP.SCREW-MPSFW M4.0*28.0L,BLK-Ni	23 8
42			1947-1200-0330	ACETATE CLOTH TAPE(醋酸布膠帶)19*70mm	3
43 44			1947-1200-0330	ACETATE CLOTH TAPE (醋酸布廖帝) 19 70mm ACETATE CLOTH TAPE (醋酸布廖帝) 27*90mm	3 1
44 45			1947-1500-3130	Function PCB Stuffing(GV47L)	2
46			1947-1500-3180	EVA 330*7*1.0t (Black)(GV47L)	2
47			1947-1700-0290	SHIELDING AL. TAPE (50.0W*100.0L)	1
48			1947-1800-1220	GASKET BLOCK (30.0L*25.0W*25.0H)	9
_ +0			0DV	5. GIVET BEGOIX (00.0E 20.011 20.011)	

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
49			3642-0012-0146	LCD CONNECTOR BD ASS'Y (GV42L)	1
50			3642-0022-0189	IR BD ASS'Y GV42L HDTV	1
51			3646-0012-0146	LCD CONNECTOR BD ASS'Y (GV46L)	1
52			3647-0012-0137	AUDIO BD ASS'Y GV47L FHDTV10A	1
53			3647-0012-0150	MAIN BD ASS'Y GV47L FHDTV10A (HDCP)	1
54			3647-0012-0306	FRONT BEZEL ASS'Y GV47L FHDTV10A	1
55			3647-0012-0395	AL TAPE ASS'Y (GV47L FHDTV10A)	1
56			3647-0022-0319	Acoustic Left BOXES ASS'Y GV47L FHDTV10A	1

3647-0012-0334 BASE ASS'Y GV47L FHDTV10A (ABS, SILVER)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			1701-0523-3030	BASE (GV46L HDTV10A)(HIPS)	1
2			1701-1000-0180	BASE FOOT (φ 18.0*2.0t, PORON)	10
3			1712-0101-0761	BASE PLATE (GV47L)(SPHC T=4.0mm)	1
4			1712-0101-0970	BASE FRAME R (GV47L)(SGHC T=1.6mm)	1
5			1720-1005-0650	MAC. SCREW-MP M5.0*6.0L,BLK-Ni	7
6			1721-3004-1520	TAP.SCREW-TR #4.0*15.0L,Ni	6

3642-0012-0146 LCD CONNECTOR BD ASS'Y (GV42L)

ITEM	M/S LOCATION	ON PART NO.	DESCRIPTION	Q'TY
1		0171-3870-0132	PCB CONN. BD FR4 27*30*1.6t S (GV42L HDTV)(1:20)	1
2		1712-0500-1630	DIN JACK HOLDER (GV42L HDTV)(SPTE T=0.5mm)	1
3	JS1	0300-3050-0010	DIN 5PIN SOCKET+SHIELD (2DJ-0065PSA2) L-F	1
4	JS2	0451-2500-0243	WAFER 2.50mm 2P 90' KINK (A2501WR2-2P) L-F	1

3642-0022-0189 IR BD ASS'Y GV42L HDTV

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			364200220189M	IR BD ASS'Y GV42L HDTV MI	1
2			364200220189S	IR BD ASS'Y GV42L HDTV SMD	1

3646-0012-0146 LCD CONNECTOR BD ASS'Y (GV46L)

ITEM	M/S LOCAT	ΓΙΟΝ PART NO.	DESCRIPTION	Q'TY
1		0171-3870-0142	PCB CONN. BD FR4 27*30*1.6t S (GV46L HDTV)(1:20)	1
2		1712-0500-1630	DIN JACK HOLDER (GV42L HDTV)(SPTE T=0.5mm)	1
3	JS3	0300-3050-0010	DIN 5PIN SOCKET+SHIELD (2DJ-0065PSA2) L-F	1
4	JS4	0451-2500-0646	WAFER 2.5mm 6P 90' DIP KINK (M241856R) L-F	1

3647-0012-0137 AUDIO BD ASS'Y GV47L FHDTV10A

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			364700120137A	AUDIO BD ASS'Y GV47L FHDTV10A AI	1
2			364700120137M	AUDIO BD ASS'Y GV47L FHDTV10A MI	1
3			364700120137S	AUDIO BD ASS'Y GV47L FHDTV10A SMD	1

3647-0012-0150 MAIN BD ASS'Y GV47L FHDTV10A (HDCP)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			364700120150A	MAIN BD ASS'Y GV47L FHDTV10A AI	1
2			364700120150M	MAIN BD ASS'Y GV47L FHDTV10A MI	1
3			364700120150S	MAIN BD ASS'Y GV47L FHDTV10A SMD	1

3647-0012-0306 FRONT BEZEL ASS'Y GV47L FHDTV10A

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			1701-0900-2220	IR Filter (GV47L)	1
2			1701-0900-2241	MYLAR 28*28*1.0mm (GV47L)	4
3			1712-0101-0770	PANEL BKT T (GV47L)(SECC T=1.0mm)	1
4			1712-0101-0780	PANEL BKT B (GV47L)(SECC T=1.0mm)	1
5			1712-0101-0790	PANEL BKT VR (GV47L)(SECC T=1.0mm)	1
6			1712-0101-0800	PANEL BKT VL (GV47L)(SECC T=1.0mm)	1
7			1801-0124-6010	FRONT BEZEL (GV47L)(PC,TRANSPARENCY+BLACK) ASS'Y	1
8			1801-1932-4010	PANEL BKT SUPPORT TR (GV47L)(ABS, GRAY) ASS'Y	1
9			1801-1932-4020	PANEL BKT SUPPORT TL (GV47L)(ABS, GRAY) ASS'Y	1
10			1801-1932-4030	PANEL BKT SUPPORT BR (GV47L)(ABS, GRAY) ASS'Y	1
11			1801-1932-4040	PANEL BKT SUPPORT BL (GV47L)(ABS, GRAY) ASS'Y	1
12			1947-1200-3620	DOUBLE TAPE (GV47L)(590*10*0.6t Black)	2
13			1947-1200-3630	DOUBLE TAPE (GV47L)(510*10*0.6t Black)	4
14			1947-1400-0210	NON WOVEN FABRICS 480*8*0.3t(Black)(GV47L)	4
15			3647-0012-0156	DISPLAY BD ASS'Y GV47L FHDTV10A	1

3647-0012-0319 Acoustic Right BOXES ASS'Y GV47L FHDTV10A

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			0321-0200-0050	DIN5P-P2I25402 2464#22 295/510 4C+S BLACK	1
2			0335-1008-0090	SPEAKER ASS'Y 80HM 10W	1
3			0335-2008-0000	SPEAKER 80HM 20W K(102-10)FL-1-C-PF L-F	1
4			1701-0123-5031	SPEAKER FRONT COVER_R (GV42/46)(ABS HB)	1
5			1701-0215-0010	SPEAKER REAR COVER_R (GV47L)(HiPS)	1
6			1701-1100-1360	SPAKER CABLE SEAL(Φ 5.0mm/Pantone 660C)	1
7			1701-1930-6040	DUCT BOTTOM COVER (GV46L HDTV10A)(ABS HB)	1
8			1701-1930-7040	DUCT TOP COVER (GV46L HDTV10A)(ABS HB)	1
9			1701-1930-8040	WOOFER COVER (GV46L HDTV10A)(ABS HB)	1
10			1701-1930-9030	WOOFER ISOLATED SHEET (GV42/46)(ABS HB)	1
11			1721-0003-0850	TAP. SCREW-TB #3.0*8.0L,BLK-Ni	1
12			1721-0003-1450	TAP. SCREW-TB #3.0*14.0L,BLK-Ni	12
13			1721-0004-0850	TAP. SCREW-TB #4.0*8.0L, BLK-NI	4
14			1721-0004-1050	TAP. SCREW-TP #4.0*10.0L, BLK-Ni	7
15			1947-1500-2810	2X5 SPEAKER STUFFING (GV42L/GV46L HDTV)	1
16			1947-1500-2820	WOOFER ENCLOSURE STUFFING (GV46L HDTV)	1
17			1947-1500-2830	DUCT STUFFING (GV46L HDTV)	1
18			1947-1500-2840	REAR STUFFING (GV46L HDTV)	1
19			1947-1500-2850	FRONT COVER STUFFING (GV46L HDTV)	1
20			1947-1500-2860	WOOFER ISOLATED SHEET SEAL (GV42L/GV46L HDTV)	1
21			1947-1500-2870	WOOFER BLOCK SEAL (GV42L/GV46L HDTV)	2
22			1947-1500-2940	RIB SEAL(CR 25.0*5.0*1.0t)(GV46L HDTV)	2
23			1947-2000-1260	RUBBER SEAL(GV42L/GV46L HDTV)	1

3647-0012-0393 ACCESSARY ASS'Y GV47L FHDTV10A

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			0320-4000-0142	POWER CORD 110V UL/CSA 1800mm BLK N.M. (VINC)	1
2			0321-0000-0411	AV CABLE RCA(Y/W/R) 1800mm BLK (VINC)	1
3			0602-3000-0020	Battery Zn-Carbon 1.5V AA	2
4			0980-0304-9011	REMOTE CONTROL 66700BA0-B10-R(Orange backlight) LF	1
5			1925-1100-0230	PE BAG 320*230*0.04T	2
6			1925-1100-0280	PE BAG (180W*290L*0.04t)(PE-LD)(ACC1)	1
7			1925-1200-7080	ACCESSARY BOX (330W*230D*50H)	1
8			1925-1300-7080	Brochure VIZIO Series	1
9			1925-1300-8042	MANUAL VIZIO GV47L FHDTV10A	1
10			1925-1300-8050	Quick Start Guide VIZIO GV47L FHDTV10A	1
11			1925-1400-2710	Register CARD/VIZIO L15	1
12			1925-2000-0030	Polishing Cloth VIZIO P42 HDTV10A	1

3647-0012-0395 AL TAPE ASS'Y (GV47L FHDTV10A)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			1701-1931-1030	AL PLATE SUPPORT (GV46L)(ABS HB)	1
2			1712-0300-1580	AL PLATE (AL5020 T=0.6mm)(GV47L)	1
3			1947-1500-2920	AL PLATE STUFFING (GV46L HDTV)	2

3647-0022-0319 Acoustic Left BOXES ASS'Y GV47L FHDTV10A

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			0321-0200-0040	DIN5P-P2I25402 2464#22 555mm 2C+S BLACK	1
2			0335-1008-0090	SPEAKER ASS'Y 80HM 10W	1
3			1701-0123-6031	SPEAKER FRONT COVER_L (GV42/46)(ABS HB)	1
4			1701-0215-1010	SPEAKER REAR COVER_L (GV47L)(HiPS)	1
5			1701-1100-1350	SPAKER CABLE SEAL(Φ 4.5mm/Pantone 430C)	1
6			1701-1930-9030	WOOFER ISOLATED SHEET (GV42/46)(ABS HB)	1
7			1721-0003-0850	TAP. SCREW-TB #3.0*8.0L,BLK-Ni	1
8			1721-0003-1450	TAP. SCREW-TB #3.0*14.0L,BLK-Ni	12
9			1721-0004-0850	TAP. SCREW-TB #4.0*8.0L, BLK-NI	4
10			1947-1500-2810	2X5 SPEAKER STUFFING (GV42L/GV46L HDTV)	1
11			1947-1500-2860	WOOFER ISOLATED SHEET SEAL (GV42L/GV46L HDTV)	1
12			1947-1500-2870	WOOFER BLOCK SEAL (GV42L/GV46L HDTV)	2
13			1947-2000-1260	RUBBER SEAL(GV42L/GV46L HDTV)	1

364200220189M IR BD ASS'Y GV42L HDTV MI

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1		JR1	0451-2000-0466	WAFER 2.0mm 4P 90' DIP KINK (M24264R) L-F	1
2	SS		0451-2003-0463	WAFER 2.00mm 4P 90' KINK (A2001WR2-4P) L-F	
3		UR1	0980-0200-2130	MODULE. IR RECEIVER (FM-6038LM-5AN)	1
4		UR1S	1701-1500-0360	IR HOLDER (TM-15A)	1

364200220189S IR BD ASS'Y GV42L HDTV SMD

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			0171-1671-0501	PCB IR BD FR4 66.5*12*1.6t D (GV42L HDTV)(1:20)	1
2		CR2	0111-3106-1614	C/M Multi. 10uF 16V X7R K 1206	1
3	SS		0111-3106-1114	C/M MULTI 10uF 10V X7R K 1206	
4	SS		0112-3106-1614	C/M MULTI 10uF 16V X7R 1206	
5	SS		0115-7106-1614	C/M MULTI 10uF 16V X7R 1206	
6		CR3	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
7	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
8		LR1	0370-0000-6452	CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2)	1
9		RR1	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
10		RR2	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
11		ZDR1	0400-0881-5012	ZENER 8.85~9.23V UDZSTE-179.1B 1/5W SOD-323	1

364700120137A AUDIO BD ASS'Y GV47L FHDTV10A AI

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
1	C108	0103-1479-1511	E/C VT 4.7uF 50V 105'C F-T (5*11mm)	1
2	C109	0103-1479-1511	E/C VT 4.7uF 50V 105'C F-T (5*11mm)	1
3	C142	0103-1101-1511	E/C VT 100uF 50V 105'C F-T (8*11.5mm)	1
4	C170	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
5	C171	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
6	C192	0103-1220-1511	E/C VT 22uF 50V 105'C F-T (5*11mm)	1
7	C196	0103-6330-1411	E/C HF 33uF 35V 105'C F-T (5*11mm) L-F	1
8	C200	0103-0229-1511	E/C L-L 2.2uF 50V 105'C F-T 5*11 HW L-F	1
9	C201	0103-0229-1511	E/C L-L 2.2uF 50V 105'C F-T 5*11 HW L-F	1
10	C202	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
11	C203	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
12	C208	0103-0101-1411	E/C L-L 100uF 35V 105'C F-T 8*11.5 HW L-F	1
13	C209	0103-0101-1411	E/C L-L 100uF 35V 105'C F-T 8*11.5 HW L-F	1
14	C227	0103-1101-1511	E/C VT 100uF 50V 105'C F-T (8*11.5mm)	1
15	C229	0103-1101-1511	E/C VT 100uF 50V 105'C F-T (8*11.5mm)	1
16	C231	0103-1101-1511	E/C VT 100uF 50V 105'C F-T (8*11.5mm)	1
17	C233	0103-1101-1511	E/C VT 100uF 50V 105'C F-T (8*11.5mm)	1
18	C235	0103-1101-1511	E/C VT 100uF 50V 105'C F-T (8*11.5mm)	1
19	C237	0103-1101-1511	E/C VT 100uF 50V 105'C F-T (8*11.5mm)	1

364700120137M AUDIO BD ASS'Y GV47L FHDTV10A MI

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1		C176	0103-1471-1410	E/C VZ 470uF 35V 105'C NF-T (10*16mm) L-F	1
2		C177	0103-1471-1410	E/C VZ 470uF 35V 105'C NF-T (10*16mm) L-F	1
3		C186	0123-0224-0632	P/C R82 0.22uF 63V J B L-F	1
4		C187	0123-0224-0632	P/C R82 0.22uF 63V J B L-F	1
5		C190	0123-0474-0632	P/C R82 0.47uF 63V J B L-F	1
6		C216	0103-6102-1412	E/C HF 1000uF 35V 105'C (12.5*25mm)	1
7		C220	0123-0474-0632	P/C R82 0.47uF 63V J B L-F	1
8		C221	0123-0474-0632	P/C R82 0.47uF 63V J B L-F	1
9		C222	0103-0471-1312	E/C L-L 470uF 25V 105'C K 10*16 HW L-F	1
10		C223	0103-0471-1312	E/C L-L 470uF 25V 105'C K 10*16 HW L-F	1
11		C238	0103-6102-1412	E/C HF 1000uF 35V 105'C (12.5*25mm)	1
12		C239	0103-6102-1412	E/C HF 1000uF 35V 105'C (12.5*25mm)	1
13		C241	0103-6102-1412	E/C HF 1000uF 35V 105'C (12.5*25mm)	1
14		C242	0103-6102-1412	E/C HF 1000uF 35V 105'C (12.5*25mm)	1
15		J1	0451-2000-0766	WAFER 2.0mm 7P 90' DIP KINK (M24267R) L-F	1
16	SS		0451-2003-0763	WAFER 2.00mm 7P 90' KINK (A2001WR2-7P) L-F	
17		J2	0451-2500-0446	WAFER 2.5mm 4P 90' DIP KINK (M241854R) L-F	1
18	SS		0451-2500-0443	WAFER 2.50mm 4P 90' KINK (A2501WR2-4P) L-F	
19		J3	0451-2500-0246	WAFER 2.5mm 2P 90' DIP KINK (M241852R) L-F	1
20	SS		0451-2500-0243	WAFER 2.50mm 2P 90' KINK (A2501WR2-2P) L-F	
21		J4	0451-2500-0646	WAFER 2.5mm 6P 90' DIP KINK (M241856R) L-F	1
22	SS		0451-2500-0643	WAFER 2.50mm 6P 90' KINK (A2501WR2-6P) L-F	
23		TP1	0460-1701-0840	WH SRA4.3-NC 1007#18 110mm BLACK	1
24		U9	0430-6016-3189	IC REGULATOR PQ30RV31J00H 3A DIP 4PIN LF	1
25		U9H	1712-0400-1910	Heatsink(AUDIO) (GV46L)	1
26		U9S	1720-0003-0620	MAC. SCREW-MB M3.0*6.0L,Ni	1

364700120137S AUDIO BD ASS'Y GV47L FHDTV10A SMD

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			0171-2871-0124	PCB AUDIO BD FR4 120*100*1.6t 2L (GV46L HDTV)(1:4)	1
2		C110	0111-3471-5116	C/M MULTI. 470PF 50V X7R 0603	1
3	SS		0112-3471-5116	C/M Multi. 470PF 50V X7R 0603 L-F	
4		C111	0111-3471-5116	C/M MULTI. 470PF 50V X7R 0603	1
5	SS		0112-3471-5116	C/M Multi. 470PF 50V X7R 0603 L-F	
6		C112	0111-3471-5116	C/M MULTI. 470PF 50V X7R 0603	1
7	SS		0112-3471-5116	C/M Multi. 470PF 50V X7R 0603 L-F	
8		C113	0111-3471-5116	C/M MULTI. 470PF 50V X7R 0603	1
9	SS		0112-3471-5116	C/M Multi. 470PF 50V X7R 0603 L-F	
10		C114	0111-3223-5116	C/M MULTI. 0.022uF 50V X7R 0603	1
11	SS		0112-3223-5116	C/M MULTI 0.022uF 50V X7R 0603	
12		C115	0111-3223-5116	C/M MULTI. 0.022uF 50V X7R 0603	1
13	SS		0112-3223-5116	C/M MULTI 0.022uF 50V X7R 0603	
14		C116	0111-3223-5116	C/M MULTI. 0.022uF 50V X7R 0603	1
15	SS		0112-3223-5116	C/M MULTI 0.022uF 50V X7R 0603	
16		C117	0111-3223-5116	C/M MULTI. 0.022uF 50V X7R 0603	1
17	SS		0112-3223-5116	C/M MULTI 0.022uF 50V X7R 0603	
18		C122	0112-3120-5106	C/M Multi. 12PF 50V NPO 0603	1
19	SS		0111-3120-5106	C/M Multi. 12PF 50V NPO 0603	
20		C123	0112-3120-5106	C/M Multi. 12PF 50V NPO 0603	1
21	SS		0111-3120-5106	C/M Multi. 12PF 50V NPO 0603	
22		C126	0111-3471-5116	C/M MULTI. 470PF 50V X7R 0603	1
23	SS	0.20	0112-3471-5116	C/M Multi. 470PF 50V X7R 0603 L-F	•
24	00	C127	0111-3471-5116	C/M MULTI. 470PF 50V X7R 0603	1
25	SS	0.2.	0112-3471-5116	C/M Multi. 470PF 50V X7R 0603 L-F	•
26		C140	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
27	SS	0110	0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	•
28		C141	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
29	SS	• • • • • • • • • • • • • • • • • • • •	0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	•
30		C152	0111-3101-5106	C/M MULTI. 100PF 50V NPO 0603	1
31	SS	0.02	0112-3101-5106	C/M Multi. 100PF 50V NPO 0603	•
32		C154	0111-3101-5106	C/M MULTI. 100PF 50V NPO 0603	1
33	SS	0.0.	0112-3101-5106	C/M Multi. 100PF 50V NPO 0603	•
34		C155	0111-3223-5116	C/M MULTI. 0.022uF 50V X7R 0603	1
35	SS	0.00	0112-3223-5116	C/M MULTI 0.022uF 50V X7R 0603	•
36		C156	0111-3223-5116	C/M MULTI. 0.022uF 50V X7R 0603	1
37	SS		0112-3223-5116	C/M MULTI 0.022uF 50V X7R 0603	-
38		C158	0111-3223-5116	C/M MULTI. 0.022uF 50V X7R 0603	1
39	SS		0112-3223-5116	C/M MULTI 0.022uF 50V X7R 0603	-
40		C159	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
41	SS		0111-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	-
42		C160	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
43	SS		0111-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	-
44		C163	0112-3120-5106	C/M Multi. 12PF 50V NPO 0603	1
45	SS		0111-3120-5106	C/M Multi. 12PF 50V NPO 0603	•
46		C172	0111-3309-5106	C/M MULTI. 3PF 50V NPO 0603	1
47	SS	-·· -	0112-3309-5106	C/M Multi. 3PF 50V NPO 0603	•
48		C173	0111-3309-5106	C/M MULTI. 3PF 50V NPO 0603	1
49	SS		0112-3309-5106	C/M Multi. 3PF 50V NPO 0603	•
50		C174	0111-3222-5116	C/M MULTI. 2200PF 50V X7R 0603	1
51	SS	=	0112-3222-5116	C/M MULTI 2200PF 50V X7R 0603 L-F	•
52		C175	0112-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805	1
53	SS	31.0	0111-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805 L-F	•
			0111-0100-0100	SANTINIOLIT LOUI SOV TOV COUSE-F	

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
54		C178	0112-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805	1
55	SS		0111-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805 L-F	
56		C179	0112-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805	1
57	SS		0111-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805 L-F	
58		C180	0111-3474-2536	C/M Multi 0.47uF 25V Y5V 0603	1
59	SS		0112-3474-2536	C/M Multi 0.47uF 25V Y5V 0603 L-F	
60		C181	0111-3474-2536	C/M Multi 0.47uF 25V Y5V 0603	1
61	SS		0112-3474-2536	C/M Multi 0.47uF 25V Y5V 0603 L-F	
62		C182	0111-3391-5106	C/M MULTI 390PF 50V NPO 0603	1
63	SS		0112-3391-5106	C/M Multi. 390PF 50V NPO 0603	
64		C183	0111-3391-5106	C/M MULTI 390PF 50V NPO 0603	1
65	SS		0112-3391-5106	C/M Multi. 390PF 50V NPO 0603	
66		C184	0111-3270-5106	C/M Multi. 27PF 50V NPO 0603	1
67	SS		0112-3270-5106	C/M Multi. 27PF 50V NPO 0603	
68		C185	0111-3270-5106	C/M Multi. 27PF 50V NPO 0603	1
69	SS		0112-3270-5106	C/M Multi. 27PF 50V NPO 0603	
70		C188	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
71	SS		0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	
72		C189	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
73	SS		0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	
74		C204	0111-3332-5116	C/M MULTI. 3300PF 50V X7R 0603	1
75	SS		0112-3332-5116	C/M Multi. 3300PF 50V X7R 0603	•
76	00	C205	0111-3272-5116	C/M MULTI 2700PF 50V X7R 0603	1
77	SS	0200	0112-3272-5116	C/M MULTI 2700PF 50V X7R 0603	·
78	00	C210	0112-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805	1
79	SS	0210	0111-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805 L-F	
80	00	C211	0112-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805	1
81	SS	0211	0111-3105-5135	C/M MULTI 1.0uF 50V Y5V 0805 L-F	
82	00	C212	0111-3474-2536	C/M Multi 0.47uF 25V Y5V 0603	1
83	SS	0212	0112-3474-2536	C/M Multi 0.47uF 25V Y5V 0603 L-F	'
84	33	C213	0111-3474-2536	C/M Multi 0.47uF 25V Y5V 0603	1
85	SS	G2 13	0112-3474-2536	C/M Multi 0.47uF 25V Y5V 0603 L-F	'
86	33	C214	0111-3220-5106	C/M MULTI. 22PF 50V NPO 0603	1
87	SS	0214	0112-3220-5106	C/M Multi. 22PF 50V NPO 0603	'
88	33	C215	0111-3220-5106	C/M MULTI. 22PF 50V NPO 0603	1
89	SS	G2 15	0112-3220-5106	C/M Multi. 22PF 50V NPO 0603	'
90	33	C217		C/M MULTI 0.33UF 50V X7R 0805	1
		C217	0112-3334-5115		1
91	99	C218	0111-3391-5106	C/M MULTI 390PF 50V NPO 0603	1
92	SS	C210	0112-3391-5106	C/M Multi. 390PF 50V NPO 0603	4
93	cc	C219	0111-3391-5106	C/M MULTI 390PF 50V NPO 0603	1
94	SS	C224	0112-3391-5106	C/M Multi 390PF 50V NPO 0603	4
95	00	C224	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
96	SS	C225	0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	4
97	00	C225	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
98	SS	0000	0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	4
99	00	C226	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
100	SS	0000	0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	4
101	00	C228	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
102	SS	0000	0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	
103	00	C230	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
104	SS		0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	
105	0.5	C232	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
106	SS		0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	
107		C234	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
108	SS		0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	
109		C236	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
110	SS		0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	
111		C240	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
112	SS		0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
113		C243	0111-3104-5115	C/M MULTI 0.1UF 50V X7R 0805	1
114	SS		0112-3104-5115	C/M MULTI 0.1uF 50V X7R 0805 L-F	
115		D10	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
116		D11	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
117		D12	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
118		D2	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
119		D3	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
120		D4	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
121		D5	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F CHIP BEAD CORE 1200hm	1
122		FB2	0370-0001-0752	(MLB-201209-0120P-N2A) CHIP BEAD CORE 120ohm	1
123		FB3	0370-0001-0752	(MLB-201209-0120P-N2A)	1
124		FB5	0370-0001-0752	CHIP BEAD CORE 120ohm (MLB-201209-0120P-N2A)	1
125		FB6	0370-0001-0752	CHIP BEAD CORE 1200hm (MLB-201209-0120P-N2A)	1
126		L10	0370-0001-4282	CHIP BEAD 800hm 6A 0805 (GB201212K800TM) LF	1
127		L11	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
128		L2	0360-1000-0400	POWER INDUCTOR L:10uH 4.0A 12x12mm SMD LF	1
129	SS		0360-1000-0450	POWER INDUCTOR L:10uH 4.8A 12.5x12.5mm SMD LF	
130		L3	0360-1000-0400	POWER INDUCTOR L:10uH 4.0A 12x12mm SMD LF	1
131	SS		0360-1000-0450	POWER INDUCTOR L:10uH 4.8A 12.5x12.5mm SMD LF	
132		L4	0360-1000-0410	POWER INDUCTOR L:15uH 4.7A 12x12mm SMD LF	1
133	SS		0360-1000-0440	POWER INDUCTOR L:15uH 4.7A 12.5x12.5mm SMD LF	
134		L5	0360-1000-0410	POWER INDUCTOR L:15uH 4.7A 12x12mm SMD LF	1
135	SS		0360-1000-0440	POWER INDUCTOR L:15uH 4.7A 12.5x12.5mm SMD LF	
136		Q1	0411-0000-7612	TR NPN 30mA 50V DTC144EKA-T146 SMT3 LF	1
137		Q2	0411-0000-7612	TR NPN 30mA 50V DTC144EKA-T146 SMT3 LF	1
138		Q3	0410-5000-5719	TRANSISTOR KN3906S SOT-23 LF MOSFET N-CH 2N7002E-T1-E3 SMD (SOT-23)	1
139		Q4	0420-1004-9621	L-F	1
140		R108	0130-1101-0055	RES. CF 1.1Kohm 1/10W J 0603	1
141		R109	0130-1101-0055	RES. CF 1.1Kohm 1/10W J 0603	1
142		R110	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
143		R111	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
144		R112	0130-1002-0055 0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
145 146		R113 R114	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603 RES. CF 10Kohm 1/10W J 0603	1 1
147		R115	0130-1002-0055	RES. CF 10K0hm 1/10W J 0603	1
148		R116	0130-1500-0055	RES. CF 150ohm 1/10W J 0603	1
149		R117	0130-1500-0055	RES. CF 150ohm 1/10W J 0603	1
150		R118	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
151		R119	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
152		R120	0130-2202-0055	RES. CF 22Kohm 1/10W J 0603	1
153		R121	0130-2202-0055	RES. CF 22Kohm 1/10W J 0603	1
154		R122	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
155		R123	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
156		R124	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
157		R125	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
158		R126	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
159		R127	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
160		R128	0130-2402-0055	RES. CF 24Kohm 1/10W J 0603	1
161		R129	0130-2402-0055	RES. CF 24Kohm 1/10W J 0603	1
162 163		R130	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603 RES. CF 10Kohm 1/10W J 0603	1
103	-	R131	0130-1002-0055	INCO. OF TOROHIT I/TOW J 0003	1

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
164	R132	0130-1500-0055	RES. CF 150ohm 1/10W J 0603	1
165	R133	0130-1500-0055	RES. CF 150ohm 1/10W J 0603	1
166	R140	0130-2002-0055	RES. CF 20Kohm 1/10W J 0603	1
167	R141	0130-2002-0055	RES. CF 20Kohm 1/10W J 0603	1
168	R142	0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1
169	R152	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
170	R153	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
171	R154	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
172	R155	0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
173	R156	0130-7502-0055	RES. CF 75Kohm 1/10W J 0603	1
174	R157	0130-7502-0055	RES. CF 75Kohm 1/10W J 0603	1
175	R158	0130-7502-0055	RES. CF 75Kohm 1/10W J 0603	1
176	R159	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
177	R160	0130-1502-0055	RES. CF 15Kohm 1/10W J 0603	1
178	R161	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
179	R162	0130-1500-0055	RES. CF 150ohm 1/10W J 0603	1
180	R170	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
181	R171	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
182	R172	0130-5101-0055	RES. CF 5.1Kohm 1/10W J 0603	1
183	R173	0130-5101-0055	RES. CF 5.1Kohm 1/10W J 0603	1
184	R174	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
185	R175	0130-1202-0055	RES. CF 12Kohm 1/10W J 0603	1
186	R176	0130-2002-0055	RES. CF 20Kohm 1/10W J 0603	1
187	R177	0130-2002-0055	RES. CF 20Kohm 1/10W J 0603	1 1
188	R178	0130-1009-0055	RES. CF 100hm 1/10W J 0603	
189	R179	0130-1009-0055 0130-1003-0055	RES. CF 100hm 1/10W J 0603 RES. CF 100Kohm 1/10W J 0603	1 1
190 191	R180 R181	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
192	R182	0131-4992-0015	RES. MF 49.9Kohm 1/10W F 0603	1
193	R183	0131-4992-0015	RES. MF 49.9Kohm 1/10W F 0603	1
194	R184	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
195	R185	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
196	R200	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
197	R201	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
198	R202	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
199	R203	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
200	R204	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
201	R205	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
202	R206	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
203	R207	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
204	R208	0130-2002-0055	RES. CF 20Kohm 1/10W J 0603	1
205	R209	0130-2002-0055	RES. CF 20Kohm 1/10W J 0603	1
206	R210	0130-1203-0055	RES. CF 120Kohm 1/10W J 0603	1
207	R211	0130-1203-0055	RES. CF 120Kohm 1/10W J 0603	1
208	R212	0130-1009-0055	RES. CF 10ohm 1/10W J 0603	1
209	R213	0130-1009-0055	RES. CF 10ohm 1/10W J 0603	1
210	R214	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
211	R215	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
212	R216	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
213	R217	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
214	R220	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
215	R221	0130-1202-0055	RES. CF 12Kohm 1/10W J 0603	1
216	R222	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
217	R223	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
218	R224	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
219	R225	0130-2209-0055	RES. CF 22ohm 1/10W J 0603	1
220	R226	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
221	R227	0131-4640-0015	RES. MF 464 ohm 1/10W F 0603	1
222	R228	0131-8251-0015	RES. MF 8.25Kohm 1/10W F 0603	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
223		R300	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
224		R301	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
225		SD10	0390-6004-9293	Schottky Diode 1A 40V B140B-13-F SMB L-F	1
226		SD11	0390-6004-9293	Schottky Diode 1A 40V B140B-13-F SMB L-F	1
227		SD12	0390-6006-5293	SCHOTTKY DIODE 3A 40V B340-13-F SMC L-F	1
228		SD14	0390-6006-5293	SCHOTTKY DIODE 3A 40V B340-13-F SMC L-F	1
229		SD2	0390-6006-8293	SCHOTTKY DIODE 2A 40V B240-13-F SMB L-F	1
230		SD3	0390-6006-8293	SCHOTTKY DIODE 2A 40V B240-13-F SMB L-F	1
231		SD4	0390-6006-8293	SCHOTTKY DIODE 2A 40V B240-13-F SMB L-F	1
232		SD5	0390-6006-8293	SCHOTTKY DIODE 2A 40V B240-13-F SMB L-F	1
233		SD6	0390-6004-9293	Schottky Diode 1A 40V B140B-13-F SMB L-F	1
234		SD7	0390-6004-9293	Schottky Diode 1A 40V B140B-13-F SMB L-F	1
235		SD8	0390-6006-8293	SCHOTTKY DIODE 2A 40V B240-13-F SMB L-F	1
236		SD9	0390-6006-8293	SCHOTTKY DIODE 2A 40V B240-13-F SMB L-F	1
237		U1	0430-1008-6088	IC NJM4558M-TE2_PB SO8(DMP8) L-F	1
238	SS		0430-1010-9088	IC DUAL OP AMP NJM4558M-TE3_PB SO8(DMP8) L-F	
239		U2	0430-1008-6088	IC NJM4558M-TE2_PB SO8(DMP8) L-F	1
240	SS		0430-1010-9088	IC DUAL OP AMP NJM4558M-TE3_PB SO8(DMP8) L-F	
241		U3	0430-1008-6088	IC NJM4558M-TE2_PB SO8(DMP8) L-F	1
242	SS		0430-1010-9088	IC DUAL OP AMP NJM4558M-TE3_PB SO8(DMP8) L-F	
243		U4	0430-1008-6088	IC NJM4558M-TE2_PB SO8(DMP8) L-F	1
244	SS		0430-1010-9088	IC DUAL OP AMP NJM4558M-TE3_PB SO8(DMP8) L-F	
245		U5	0430-1008-6088	IC NJM4558M-TE2_PB SO8(DMP8) L-F	1
246	SS		0430-1010-9088	IC DUAL OP AMP NJM4558M-TE3_PB SO8(DMP8) L-F	
247		U6	0430-1008-6088	IC NJM4558M-TE2_PB SO8(DMP8) L-F	1
248	SS		0430-1010-9088	IC DUAL OP AMP NJM4558M-TE3_PB SO8(DMP8) L-F	
249		U7	0430-7043-4620	IC 2*20W AUDIO AMP MP7722DF-LF-Z 20PIN TSSOP LF	1
250		U8	0430-7043-3620	IC 50W AUDIO AMP MP7782DF-LF-Z 20PIN TSSOP LF	1
251		ZD2	0400-0681-2713	ZENER 6.46V-7.14V MMSZ5235B 1/2W SOD-123 L-F	1
252		ZD3	0400-0681-2713	ZENER 6.46V-7.14V MMSZ5235B 1/2W SOD-123 L-F	1
253		ZD4	0400-0681-2713	ZENER 6.46V-7.14V MMSZ5235B 1/2W SOD-123 L-F	1
254	-	ZD7	0400-0681-2713	ZENER 6.46V-7.14V MMSZ5235B 1/2W SOD-123 L-F	1

364700120150A MAIN BD ASS'Y GV47L FHDTV10A AI

4	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
1	CE1	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
2	CE11	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
3	CE12	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
4	CE13	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
5	CE14	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
6	CE15	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
7	CE16	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
8	CE17	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
9	CE18	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
10	CE19	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
11	CE2	0103-1221-1311	E/C VT 220uF 25V 105'C F-T (8*11.5mm)	1
12	CE20	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
13	CE21	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
14	CE22	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
15	CE23	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
16	CE24	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
17	CE25	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
18	CE26	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
19	CE27	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
20	CE28	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
21	CE29	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
22	CE3	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
23	CE30	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
24	CE31	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
25	CE32	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
26	CE33	0103-1471-1211	E/C VZ 470uF 16V 105'C F-T (8*11.5mm)	1
27	CE34	0103-1471-1211	E/C VZ 470uF 16V 105'C F-T (8*11.5mm)	1
28	CE35	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
29	CE36	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
30	CE37	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
31	CE38	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
32	CE39	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
33	CE4	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
34	CE40	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
35	CE41	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
36	CE42	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
37	CE43	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
38	CE44	0103-1221-1211	E/C VZ 220uF 16V 105'C F-T (6.3*11mm)	1
39	CE45	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
40	CE46	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
41	CE47	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
42	CE48	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
43	CE5	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
44	CE56	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
45	CE57	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
46	CE58	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
47	CE59	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
48	CE6	0103-1220-1211	E/C VT 22uF 16V 105'C F-T (5*11mm)	1
49	CE61	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
50	CE62	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
51	CE63	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
52	CE64	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
53	CE65	0103-1100-1511	E/C VT 10uF 50V 105'C F-T (5*11mm)	1
54	CE66	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	. 1

61 CE72 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 62 CE73 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 63 CE74 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 64 CE75 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 65 CE76 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 66 CE77 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 67 CE8 0103-120-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 68 CE84 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 69 CE87 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (6*11mm) 1 80 CE97 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (6*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 85 DCE12 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 86 DCE13 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 87 DCE14 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 88 DCE15 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 89 DCE18 0103-1101-1511 E/C VZ 10uF 16V 105'C F-T (6*11mm) 1 89 DCE18 0103-1101-1511 E/C VZ 10uF 16V 105'C F-T (6*11mm) 1	Q'TY
57	1
58	1
59	1
60	1
61 CE72 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 62 CE73 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 63 CE74 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 64 CE75 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 65 CE76 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 66 CE77 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 67 CE8 0103-1220-1211 E/C VT 20uF 16V 105'C F-T (5*11mm) 1 68 CE84 0103-1220-1211 E/C VT 20uF 16V 105'C F-T (5*11mm) 1 69 CE87 0103-1220-1211 E/C VT 220uF 16V 105'C F-T (5*11mm) 1 70 CE88 0103-1220-1211 E/C VT 220uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1100-1511 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (6*11mm) 1 79 CE96 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (6*11mm) 1 80 CE97 0103-1221-1211 E/C VT 22UF 16V 105'C F-T (6*11mm) 1 81 CE98 0103-1221-1211 E/C VT 22UF 16V 105'C F-T (6*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*3*11mm) 1 85 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*3*11mm) 1 86 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*3*11mm) 1 87 DCE14 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*3*11mm) 1 88 DCE15 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*3*11mm) 1 89 DCE18 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*3*11mm) 1 90 DCE18 0103-1421-1211 E/C VZ 220uF 16V 105'C F-T (6*3*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (6*3*11mm) 1 91 DCE19 0103-1101-1511 E/C VZ 220uF 16V 105'C F-T (6*3*11mm) 1	1
62 CE73 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 63 CE74 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 64 CE75 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 65 CE76 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 66 CE77 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 67 CE8 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 68 CE84 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (8*11.5mm) 1 69 CE87 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1101-1511 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 70 CE98 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1101-1511 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 86 DCE13 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 87 DCE14 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 88 DCE15 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1401-1511 E/C VZ 120UF 16V 105'C F-T (6.3*11mm) 1 91 DCE19 0103-1100-1511 E/C VZ 120UF 16V 105'C F-T (6.3*11mm) 1	1
63 CE74 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 64 CE75 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 65 CE76 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 66 CE77 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 67 CE8 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 68 CE84 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 69 CE87 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 70 CE98 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE99 103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE90 103-1221-1211 E/C VT 22uF 16V 105'C F-T (6*11mm) 1 75 CE92 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (6*11mm) 1 76 CE93 0103-1100-1511 E/C VT 20uF 16V 105'C F-T (6*11mm) 1 77 CE94 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 78 CE95 0103-1121-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 86 DCE13 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 87 DCE14 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*	1
64 CE75 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 65 CE76 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 66 CE77 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 67 CE8 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 68 CE84 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 69 CE87 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1101-1511 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (6*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 86 DCE13 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 87 DCE14 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 88 DCE15 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 90 DCE18 0103-1100-1511 E/C VZ 10uF 16V 105'C F-T (6*11mm) 1 91 DCE19 0103-1100-1511 E/C VZ 10uF 16V 105'C F-T (6*11mm) 1 91 DCE19 0103-1100-1511 E/C VZ 10uF 16V 105'C F-T (6*11mm) 1	1
65 CE76 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 66 CE77 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 67 CE8 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 68 CE84 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 69 CE87 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (8*11.5mm) 1 70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1210-1511 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 86 DCE13 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 87 DCE14 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 88 DCE15 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (6.3*11mm) 1 91 DCE19 0103-1100-1511 E/C VZ 100uF 16V 105'C F-T (6.3*11mm) 1 91 DCE19 0103-1100-1511 E/C VZ 100uF 16V 105'C F-T (6.3*11mm) 1 91 DCE19 0103-1100-1511 E/C VZ 100uF 16V 105'C F-T (6.3*11mm) 1	1
66 CE77 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 67 CE8 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 68 CE84 0103-1221-1311 E/C VT 22uF 16V 105'C F-T (8*11.5mm) 1 69 CE87 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (8*11.5mm) 1 70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1101-1511 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 86 DCE13 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 87 DCE14 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 88 DCE15 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 89 DCE17 0103-1221-1211 E/C VZ 470uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (6.3*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (6.3*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (6.3*11mm) 1	1
67 CE8 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 68 CE84 0103-1221-1311 E/C VT 22uF 25V 105'C F-T (8*11.5mm) 1 69 CE87 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1221-1211 E/C VT 20uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 86 DCE13 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 87 DCE14 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 88 DCE15 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-121-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 91 DCE19 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (8*11.5mm) 1 91 DCE19 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (8*11.5mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
68 CE84 0103-1221-1311 E/C VT 220uF 25V 105'C F-T (8*11.5mm) 1 69 CE87 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 78 CE95 0103-1221-1211 E/C VT 20uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 86 DCE13 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 87 DCE14 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 88 DCE15 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 90 DCE18 0103-1201-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 91 DCE19 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (8*11.5mm) 1 91 DCE19 0103-1201-1211 E/C VZ 100F 16V 105'C F-T (8*11.5mm) 1 92 DCE2 0103-1201-1211 E/C VZ 220uF 16V 105'C F-T (8*11.5mm) 1	1
69 CE87 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1100-1511 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 77 CE94 0103-1221-1211 E/C VT 22uF 16V 105'C F-T (6*11mm) 1 78 CE95 0103-1101-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 86 DCE13 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 87 DCE14 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 90 DCE18 0103-1100-1511 E/C VZ 100F 50V 105'C F-T (6.3*11mm) 1 91 DCE19 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
70 CE88 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (6*11mm) 1 77 CE94 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 78 CE95 0103-1101-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 <td< td=""><td>1</td></td<>	1
71 CE89 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 77 CE94 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 100uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11	1
72 CE9 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 77 CE94 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 78 CE95 0103-1101-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11	1
73 CE90 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 77 CE94 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 78 CE95 0103-1101-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 <td>1</td>	1
74 CE91 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 77 CE94 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 78 CE95 0103-1101-1211 E/C VZ 220uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 </td <td>1</td>	1
75 CE92 0103-1220-1211 E/C VT 22uF 16V 105'C F-T (5*11mm) 1 76 CE93 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 77 CE94 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 78 CE95 0103-1101-1211 E/C VZ 100uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE	1
76 CE93 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 77 CE94 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 78 CE95 0103-1101-1211 E/C VZ 100uF 16V 105'C F-T (6.3*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 <	1
77 CE94 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 78 CE95 0103-1101-1211 E/C VZ 100uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 220uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (6.3*11mm) 1 90	1
78 CE95 0103-1101-1211 E/C VZ 100uF 16V 105'C F-T (5*11mm) 1 79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (6.3*11mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (5*11mm) 1 90	1
79 CE96 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (6.3*11mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (5*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91	1
80 CE97 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 <td>1</td>	1
81 CE98 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (6.3*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
82 DCE1 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
83 DCE10 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
84 DCE11 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
85 DCE12 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
86 DCE13 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
87 DCE14 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
88 DCE15 0103-1471-1211 E/C VZ 470uF 16V 105'C F-T (8*11.5mm) 1 89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
89 DCE17 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1 90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
90 DCE18 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
91 DCE19 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1 92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
92 DCE2 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
	1
93 DCE20 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1	1
	1
94 DCE21 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
95 DCE22 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
96 DCE23 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
97 DCE24 0103-1470-1211 E/C VT 47uF 16V 105'C F-T (5*11mm) 1	1
98 DCE25 0103-1100-1511 E/C VT 10uF 50V 105'C F-T (5*11mm) 1	1
99 DCE26 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
100 DCE27 0103-1220-1511 E/C VT 22uF 50V 105'C F-T (5*11mm) 1	1
101 DCE3 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
102 DCE4 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
103 DCE5 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
104 DCE6 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
105 DCE7 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
106 DCE8 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
107 DCE9 0103-1221-1211 E/C VZ 220uF 16V 105'C F-T (6.3*11mm) 1	1
108 FB36 0370-0000-1011 FERRITE CORE RH 3.5X6X1.0(W)X2 L-F 1	1
109 L1 0370-0000-1011 FERRITE CORE RH 3.5X6X1.0(W)X2 L-F 1	1
110 L26 0370-0000-1011 FERRITE CORE RH 3.5X6X1.0(W)X2 L-F 1	1

364700120150M MAIN BD ASS'Y GV47L FHDTV10A MI

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1		DL7	0361-2022-0030	COIL CHOKE 22UH 2.9A 11*12 DIP TSL1112RA-220K2R9-PF	1
2		DL8	0361-2022-0030	COIL CHOKE 22UH 2.9A 11*12 DIP TSL1112RA-220K2R9-PF	1
3		DP1	0300-6400-0031	OPTO CONN. Transmitter (134-0029-399A) L-F	1
4		DTU1	0980-0103-3060	MODULE TUNER DTVS205CH201A L-F	1
5		DU1	0430-6011-3210	IC MC7805CTG 3PIN TO-220 LF	1
6	SS		0430-6011-3204	IC LM7805CT TO-220 3PIN LF	
7	SS		0430-6011-3242	IC REGULATOR AZ7805T-E1 TO-220 3PIN LF	
8		DY1	0280-2500-0012	X'TAL 25MHZ 49/US 30PPM 20PF LF	1
9		J1	0451-1250-0366	WAFER 1.25mm 3P 90' DIP KINK (M24013R) L-F	1
10	SS		0451-1250-0363	WAFER 1.25mm 3P 90' KINK (A1251WR0-3P) L-F	
11		J6	0451-2000-0866	WAFER 2.0mm 8P 90' DIP KINK (M24268R) L-F	1
12	SS		0451-2003-0863	WAFER 2.00mm 8P 90' KINK (A2001WR2-8P) L-F	
13		J7	0451-2000-1566	WAFER 2.0mm 15P 90' DIP KINK (M242615R) L-F	1
14	SS		0451-2003-1563	WAFER 2.00mm 15P 90' KINK (A2001WR2-15P) L-F	
15		J8	0451-2000-0606	WAFER 2.0mm 6P 180' DIP KINK (M24266) L-F	1
16	SS		0451-2003-0603	WAFER 2.00mm 6P 180' KINK (A2001WV2-6P) L-F	
17		P12	0300-3041-0090	S-VIDEO 4PIN 90' (2MJ-0602-005) L-F	1
18		P13	0302-9020-0114	RCA JACK 2ROW 2I/O (W-R) L-F	1
19		P2	0302-9060-0022	RCA JACK 2ROW 6I/O (Y-W-R) L-F	1
20		P3	0300-1205-3151	D-SUB FEMALE 90' 15P 3ROW (DV11201-H5R6-4F) L-F	1
21		P4	0302-9060-0020	RCA JACK 2ROW 6I/O (G-B-R)	1
22		P5	0302-9040-0010	RCA JACK 2ROW 4I/O 90' (W-R) L-F	1
23		P6	0302-0350-0012	PHONE JACK 3.5 φ 5P 90' +SHIELD L-F	1
24		P8	0202-6000-0003	RJ11 6P6C Gray UNDER CONTACT L-F	1
25		P9	0302-9020-0114	RCA JACK 2ROW 2I/O (W-R) L-F	1
26		Y1	0280-2700-0012	X'TAL 27MHZ 49/US 30PPM 20PF 40ohm	1

364700120150S MAIN BD ASS'Y GV47L FHDTV10A SMD

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			364700120150B	MAIN BD ASS'Y GV47L FHDTV10A SMD BOT	1
2			364700120150T	MAIN BD ASS'Y GV47L FHDTV10A SMD TOP	1

3647-0012-0156 DISPLAY BD ASS'Y GV47L FHDTV10A

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			364700120156B	DISPLAY BD ASS'Y GV47L FHDTV10A SMD BOT	1
2			364700120156M	DISPLAY BD ASS'Y GV47L FHDTV10A MI	1
3			364700120156T	DISPLAY BD ASS'Y GV47L FHDTV10A SMD TOP	1

364700120150B MAIN BD ASS'Y GV47L FHDTV10A SMD BOT

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1		C100	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
2	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
3		C101	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
4	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
5		C102	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
6	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
7		C103	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
8	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
9		C104	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
10	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
11		C105	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
12	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
13		C113	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
14	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
15		C121	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
16	SS		0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	
17		C122	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
18	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
19		C123	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
20	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
21		C124	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
22	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
23		C125	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
24	SS	0.20	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
25	00	C126	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
26	SS	0.120	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
27	00	C127	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
28	SS	0127	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
29	00	C128	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
30	SS	0120	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
31	00	C130	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
32	SS	0100	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
33	00	C131	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
34	SS	C131	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
35	33	C133	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
36	SS	0100	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
37	33	C134	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
38	SS	C134	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	'
39	33	C135	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
40	SS	C135			1
	33	C126	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402 C/M Multi. 0.1uF 16V X7R 0402	4
41	00	C136	0111-3104-1617		1
42	SS	C127	0112-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	4
43	00	C137	0111-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	1
44	SS	0400	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
45 46	00	C138	0111-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	1
46	SS	0110	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
47	00	C140	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
48	SS	0.1.1	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
49		C141	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
50	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
51		C142	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
52	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
53		C143	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
54	SS		0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	

56 S	ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
57	55		C144	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
SS	56	SS		0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	
59	57		C145	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
60 SS	58	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
61	59		C146	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
63	60	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
64 SS	61		C147	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
64 SS	62	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
66 SS	63		C148	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
66 SS	64	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
68 SS	65		C149	0111-3104-1617		1
68	1	SS				
69	1		C150	0111-3104-1617		1
70	1	SS				
71	1		C151			1
72 SS	1	SS		0112-3104-1617		
73			C152			1
74 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 75 C154 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 77 C155 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 78 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 79 C156 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 80 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 81 C157 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 82 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 83 C158 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 84 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 85 C171 0111-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 86 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 87 C172 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 SS 0112-3104-1617 C/M Multi. 820pF 50V X7R 0402 1 89 C174 0111-3104-1617 C/M Multi. 820pF 50V X7R 0402 1 80 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 81 C175 0111-3104-1617 C/M Multi. 820pF 50V X7R 0402 1 82 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 83 C158 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 84 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 85 C171 0111-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 86 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 87 C172 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 SC 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 89 C174 0111-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 90 SS 0112-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 91 C175 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 92 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 93 C177 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 94 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 95 C179 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 96 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 97 C180 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 98 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 100 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 101 C184 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 102 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1 103 C186 0111-3104-161	1	SS				
75 C154 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 76 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 77 C155 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 78 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 79 C156 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 80 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 81 C157 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 82 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 83 C158 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 84 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 85 C171 0111-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 86 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 87 C172 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 89 C174 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 89 C174 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 80 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 81 C175 0111-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 82 SS 0112-3304-1617 C/M Multi. 0.1uF 16V X7R 0402 1 83 SS 0112-3304-1617 C/M Multi. 0.1uF 16V X7R 0402 1 84 SS 0112-3304-1617 C/M Multi. 0.1uF 16V X7R 0402 1 85 C174 0111-3821-5117 C/M Multi. 220pF 50V X7R 0402 1 86 SS 0112-3821-5117 C/M Multi. 220pF 50V X7R 0402 1 87 C175 0111-3821-5117 C/M Multi. 220pF 50V X7R 0402 1 89 SS 0112-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 90 SS 0112-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 91 C175 0111-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 92 SS 0112-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 93 C177 0111-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 94 SS 0112-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 95 C180 0111-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 96 SS 0112-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 97 C180 0111-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 98 SS 0112-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 99 C181 0111-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 100 SS 0112-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 100 SS 0112-3821-5117 C/M Multi. 220pF 50V X7R 0402 1- 100 SS 0112-3821-5117 C/M Multi. 220	1		C153			1
76 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 77 C155 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 78 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 80 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 81 C157 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 82 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 83 C158 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 84 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 85 C171 0111-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 86 SS 0112-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 88 SS 0112-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 89 C174 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 90 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1	1	SS				
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78 SS	1	SS				
79			C155			1
80 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 81 C157 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 82 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 83 C158 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 84 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 85 C171 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 86 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 87 C172 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 89 C174 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 89 C175 0111-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 90 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 91 C175 0111-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 92 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 93 C177 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 94 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 95 C179 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 96 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 97 C180 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 98 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 99 C181 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 100 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 101 C184 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 102 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 103 C186 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 104 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 105 C187 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 106 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 107 C188 0111-381-5117 C/M Multi. 820pF 50V X7R 0402 1 108 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 109 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 100 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 101 C184 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 102 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 103 C186 0111-3104-1617 C/M Multi. 820pF 50V X7R 0402 1 104 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 107 C188 0111-3821-5117 C/M Mult	1	SS				
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82 SS 0112-3104-1617		SS				
83	1		C157			1
84 SS	1	SS				
85 C171 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 86 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1 87 C172 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 89 C174 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 90 SS 0112-3104-1617 C/M Multi. 820pF 50V X7R 0402 1 91 C175 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 92 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1 93 C177 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1 94 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1 95 C179 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1 97 C180 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1 100 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0	1		C158			1
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101 C184 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 102 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 103 C186 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 104 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 C187 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 SS 0112-3104-1617 C/M Multi. 820pF 50V X7R 0402 1 107 C188 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 108 SS 0112-3821-5117 C/M Multi. 0.1uF 16V X7R 0402 1 109 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 110 SS 0112-3104-1617 C/M Multi. 820pF 50V X7R 0402 1 111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1	1	SS	3.01		•	
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103 C186 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 104 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 C187 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 107 C188 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 108 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1 109 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 110 SS 0112-3104-1617 C/M Multi. 820pF 50V X7R 0402 1 111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F		SS	2.0.		·	•
104 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 C187 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 107 C188 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 108 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 1 109 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 110 SS 0112-3104-1617 C/M Multi. 820pF 50V X7R 0402 1 111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F	1		C186		·	1
105 C187 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 107 C188 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 108 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 109 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 110 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F		SS				
106 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 107 C188 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 108 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 109 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 110 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F			C187			1
107 C188 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 108 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 109 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 110 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F	1	SS				-
108 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F 109 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 110 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F	1	-	C188			1
109 C189 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 110 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F		SS			·	-
110 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F	1	- -	C189		·	1
111 C190 0111-3821-5117 C/M Multi. 820pF 50V X7R K 0402 1 112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F		SS				
112 SS 0112-3821-5117 C/M Multi. 820pF 50V X7R 0402 L-F	1		C190			1
l ·	1	SS			•	
,	113		C191	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
114	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
115		C192	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
116	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
117		C194	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
118	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
119		C196	0111-3101-5107	C/M Multi. 100PF 50V NPO J 0402	1
120	SS		0112-3101-5107	C/M Multi. 100PF 50V NPO J 0402	
121		C197	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
122	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
123		C23	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
124	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
125		C24	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
126	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
127		C25	0111-3101-5107	C/M Multi. 100PF 50V NPO J 0402	1
128	SS		0112-3101-5107	C/M Multi. 100PF 50V NPO J 0402	
129		C26	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
130	SS		0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	
131		C27	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
132	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
133		C28	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
134	SS	020	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	·
		0004		ESD PROTECTOR 5V SMD (EGA1-0603-V05-B)	_
135		C281	0272-0025-0961	LF	1
136		C282	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
137		C289	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
138		C29	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
139	SS	020	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	·
140	00	C30	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
141	SS		0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	
142		C31	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
143	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
144		C32	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
145		C320	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
146	SS	0020	0111-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	·
147		C322	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
148		C324	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B)	1
140				LF C/M Multi- 0.220/E 25V/ XZD 0602	
149	00	C325	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
150	SS		0111-3224-2516	C/M Multi. 0.22uF 25V X7R 0603 ESD PROTECTOR 5V SMD (EGA1-0603-V05-B)	
151		C327	0272-0025-0961	LF	1
152		C328	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
153		C329	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
154		C33	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
155	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
156		C331	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
157		C333	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
158		C334	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
159		C335	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
160		C337	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B)	1
161		C338	0272-0025-0961	LF ESD PROTECTOR 5V SMD (EGA1-0603-V05-B)	1
162		C339	0272-0025-0961	LF ESD PROTECTOR 5V SMD (EGA1-0603-V05-B)	1
				LF C/M Multi 0.1uE 16V Y7P 0402	
163 164	SS	C34	0111-3104-1617 0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402 C/M Multi. 0.1uF 16V X7R 0402	1
	-	-			

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
165		C340	0272-0025-0961	ESD PROTECTOR 5V SMD (EGA1-0603-V05-B) LF	1
166		C35	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
167	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
168		C358	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
169	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
170		C36	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
171	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
172		C360	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
173	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
174		C361	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
175	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
176		C362	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
177	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
178		C367	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
179	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
180		C368	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
181	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
182		C369	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
183	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
184		C37	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
185	SS		0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	
186		C370	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
187	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
188		C371	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
189	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
190		C372	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
191	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
192		C373	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
193	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
194		C374	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
195	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
196		C376	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
197	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
198		C377	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
199	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
200		C378	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
201	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
202		C379	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
203	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
204		C38	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
205	SS		0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	
206	0.5	C380	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
207	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
208	00	C381	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
209	SS	000	0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
210	00	C39	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
211	SS	0000	0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	
212	00	C393	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
213	SS	0004	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	4
214	00	C394	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
215	SS	COOF	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	4
216	00	C395	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
217	SS	040	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	4
218	cc	C42	0111-3106-1135	C/M MULTI. 10uF 10V Y5V 0805	1
219	SS	C42	0112-3106-1135	C/M MULTI 10uF 10V Y5V 0805	4
220	00	C43	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
221	SS	C44	0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	4
222	99	C44	0111-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	1
223	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	

225 SS	ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
226	224		C45	0111-3106-1135	C/M MULTI. 10uF 10V Y5V 0805	1
228	225	SS		0112-3106-1135	C/M MULTI 10uF 10V Y5V 0805	
228 SS	226		C46	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
239 SS	227	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
231 SS	228		C47	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
231 SS	229	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
233 SS	230		C48	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
233 SS	231	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
235 SS	232		C49	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
235 SS	233	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
238	234		C5	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
237 SS	235	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
238	236		C50	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
239 SS	237	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
240	238		C51	0111-3106-1135	C/M MULTI. 10uF 10V Y5V 0805	1
241 SS	239	SS		0112-3106-1135	C/M MULTI 10uF 10V Y5V 0805	
242	240		C52	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
243 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 244 C54 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 246 C55 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 247 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 248 C56 0111-3103-1617 C/M Multi. 0.1uF 16V X7R 0402 1 249 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R 0402 1 250 C57 0111-3332-5117 C/M Multi. 0.01uF 16V X7R K 0402 1 251 SS 0112-3332-5117 C/M Multi. 3000PF 50V X7R K 0402 1 252 C58 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 253 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 254 C59 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 255 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 256 C60 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 257 SS 0113-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 258 C61 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 259 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 250 C62 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 257 SS 0113-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 258 C61 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 259 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 250 C62 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 C62 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 250 C62 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 251 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 252 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 253 SS 0111-3475-6056 C/M MULTI 4.7uF 6.	241	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
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245 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 246 C55 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 247 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 248 C56 0111-3103-1617 C/M Multi. 0.01uF 16V X7R 0402 1 249 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R 0402 1 250 C57 0113-332-5117 C/M Multi. 3300PF 50V X7R K 0402 1 251 SS 0112-3332-5117 C/M Multi. 3300PF 50V X7R K 0402 L-F 0.00 Multi. 3300PF 50V X7R K 0402 1 252 C58 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 253 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 255 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 255 SS 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 256 C60 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 257 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 258 C61 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 259 SS 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 250 C62 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 250 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 270 C67 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 271 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 272 C68 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 0.00 Multi. 0.1uF 16V X7R 0402 1 273 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R	243	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
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249 SS	247	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
250	248		C56	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
251 SS 0112-3332-5117 C/M Multi. 3300PF 50V X7R K 0402 L-F 252 C58 0112-3475-6056 C/M MULTI 4,7uF 6.3V X5R K 0603 1 253 SS 0111-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 254 C59 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 255 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 256 C60 0112-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 257 SS 0111-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 258 C61 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 260 C62 0112-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 261 SS 0111-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 262 C63 0111-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 263 SS 0111-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 264 C64 0112-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1	249	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
252	250		C57	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
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257 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 258 C61 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 259 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 260 C62 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 261 SS 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 262 C63 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 263 SS 0112-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 264 C64 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 265 SS 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 266 C65 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 267 SS 0112-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 268 C66 0112-3475-6056 C/M Multi. 0.1uF 16V X7R 0402 1 270 C67 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1	255	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
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275 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F 276 C70 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 277 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 278 C71 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 279 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 280 C72 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 281 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	273	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
276 C70 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 277 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 278 C71 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 279 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 280 C72 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 281 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	274		C69	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
276 C70 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 277 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 278 C71 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 279 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 280 C72 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 281 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	275	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
277 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 278 C71 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 279 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 280 C72 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 281 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	1		C70	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
278 C71 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 279 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 280 C72 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 281 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	1	SS				
279 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 280 C72 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 281 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	1		C71	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
280 C72 0112-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 1 281 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	1	SS				
281 SS 0111-3475-6056 C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	1		C72			1
		SS				
			C73			1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
283	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
284		C74	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
285	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
286		C75	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
287	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
288		C76	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
289	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
290		C77	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
291	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
292		C78	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
293	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
294		C79	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
295	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
296		C80	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
297	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
298		C81	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
299	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
300		C84	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
301	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
302		C85	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
303	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
304		C86	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
305	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
306		C87	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
307	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
308		C88	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
309	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
310		C89	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
311	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
312		C90	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
313	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
314		C91	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
315	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
316		C92	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
317	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
318		C93	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
319	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
320		C94	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
321	SS	005	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
322	00	C95	0111-3104-1617	C/M Multi- 0.1 uF 16V X7R 0402	1
323	SS	000	0112-3104-1617	C/M Multi- 0.1 uF 16V X7R 0402	4
324	cc	C96	0111-3104-1617	C/M Multi: 0.1uF 16V X7R 0402	1
325	SS	C07	0112-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	4
326	99	C97	0111-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	1
327	SS	C08	0112-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	4
328	99	C98	0111-3104-1617 0112-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	1
329 330	SS	C99		C/M Multi. 0.1uF 16V X7R 0402	1
331	SS	099	0111-3104-1617 0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402 C/M Multi. 0.1uF 16V X7R 0402	1
332	55	DC100	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402 C/M Multi. 0.1uF 16V X7R 0402	1
333	SS	20100	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
334	55	DC101	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
335	SS	20101	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	ı
336	00	DC102	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
337	SS	50102	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	ı
338	00	DC103	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
339	SS	50100	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
340		DC104	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
341	SS	20104	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
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ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
342		DC105	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
343	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
344		DC106	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
345	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
346		DC107	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
347	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
348		DC108	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
349	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
350		DC109	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
351	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
352		DC110	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
353	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
354		DC112	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
355	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
356		DC114	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
357	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
358		DC115	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
359	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
360		DC116	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
361	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
362		DC117	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
363	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
364		DC118	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
365	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
366		DC119	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
367	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
368		DC121	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
369	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
370		DC122	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
371	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
372		DC123	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
373	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
374		DC124	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
375	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
376		DC126	0111-3100-5107	C/M Multi. 10PF 50V NPO J 0402	1
377	SS		0112-3100-5107	C/M Multi. 10PF 50V NPO 0402	
378		DC127	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
379	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
380		DC130	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
381	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
382		DC131	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
383	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
384		DC132	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
385	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
386		DC133	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
387	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
388		DC135	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
389	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
390		DC136	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
391	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
392		DC137	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
393	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
394		DC142	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
395	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
396		DC143	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
397	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
398		DC144	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
399	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
400		DC145	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
401	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
402		DC146	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
403	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
404		DC147	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
405	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
406		DC148	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
407	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
408		DC149	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
409	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
410		DC150	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
411	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
412		DC151	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
413	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
414		DC152	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
415	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
416		DC153	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
417	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
418		DC154	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
419	SS	-	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
420		DC155	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
421	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
422		DC156	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
423	SS	20.00	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
424		DC157	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
425	SS	20.0.	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
426	00	DC158	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
427	SS	20.00	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
428		DC159	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
429	SS	20100	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
430		DC160	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
431	SS	20.00	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
432		DC161	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
433	SS	20.0.	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
434		DC162	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
435	SS	20.02	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
436		DC163	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
437	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
438		DC164	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
439	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
440		DC165	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
441	SS	= • . • •	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
442		DC166	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
443	SS	- 	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
444		DC167	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
445	SS	- - -	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
446		DC168	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
447	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
448		DC169	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
449	SS	- 	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
450		DC173	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
451	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
452		DC174	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
453	SS	= • · · ·	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
454		DC175	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
455	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
456		DC176	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
457	SS	20.70	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
458		DC177	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
459	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
460		DC178	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
461	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
462		DC181	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
463	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
464		DC2	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
465	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
466		DC3	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
467	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
468		DC30	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
469	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
470		DC34	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
471	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
472		DC37	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
473	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
474		DC38	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
475	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
476		DC39	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
477	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
478		DC40	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
479	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
480		DC41	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
481	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
482		DC42	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
483	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
484		DC43	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
485	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
486		DC44	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
487	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
488		DC45	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
489	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
490		DC46	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
491	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
492		DC47	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
493	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
494		DC49	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
495	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
496		DC50	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
497	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
498		DC51	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
499	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
500		DC52	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
501	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
502		DC53	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
503	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
504		DC54	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
505	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
506		DC55	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
507	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
508		DC56	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
509	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
510		DC57	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
511	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
512		DC58	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
513	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
514		DC6	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
515	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
516		DC61	0111-3562-5117	C/M Multi. 5600PF 50V X7R K 0402	1
517	SS		0112-3562-5117	C/M Multi. 5600PF 50V X7R K 0402	
518		DC62	0111-3152-5117	C/M Multi. 1500PF 50V X7R 0402	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
519	SS		0112-3152-5117	C/M Multi. 1500PF 50V X7R 0402 L-F	
520		DC63	0111-3152-5117	C/M Multi. 1500PF 50V X7R 0402	1
521	SS		0112-3152-5117	C/M Multi. 1500PF 50V X7R 0402 L-F	
522		DC66	0111-3106-1135	C/M MULTI. 10uF 10V Y5V 0805	1
523	SS		0112-3106-1135	C/M MULTI 10uF 10V Y5V 0805	
524		DC67	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
525	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
526		DC68	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
527	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
528		DC69	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
529	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
530		DC70	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
531	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
532		DC71	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
533	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
534		DC72	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
535	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
536		DC73	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
537	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
538		DC74	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
539	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
540		DC75	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
541	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
542		DC76	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
543	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
544		DC77	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
545	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
546		DC81	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
547	SS		0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	
548		DC82	0111-3101-5107	C/M Multi. 100PF 50V NPO J 0402	1
549	SS	D.000	0112-3101-5107	C/M Multi. 100PF 50V NPO J 0402	
550	00	DC83	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
551	SS	D004	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	_
552	00	DC84	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
553	SS	DC85	0112-3331-5107	C/M Multi. 330PF 50V NPO J 0402 C/M Multi. 0.1uF 16V X7R 0402	1
554	SS	DC65	0111-3104-1617		'
555	33	DC96	0112-3104-1617 0111-3105-1636	C/M Multi. 0.1uF 16V X7R 0402 C/M MULTI 1uF 16V Y5V 0603	1
556 557	SS	DC86	0112-3105-1636	C/M Multi. 1.0uF 16V Y5V 0603	1
558	00	DC87	0111-3106-1135	C/M MULTI. 10uF 10V Y5V 0805	1
559	SS	2007	0112-3106-1135	C/M MULTI 10uF 10V Y5V 0805	'
560		DC88	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
561	SS	2000	0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	'
562		DC89	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
563	SS	2000	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
564		DC90	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
565	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	•
566	= =	DC91	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
567	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
568	- -	DC92	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
569	SS	-	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
570	-	DC93	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
571	SS	-	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
572		DC94	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
573	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
574		DC95	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
575	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
576		DC96	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
577	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
578		DC98	0111-3106-1135	C/M MULTI. 10uF 10V Y5V 0805	1
579	SS		0112-3106-1135	C/M MULTI 10uF 10V Y5V 0805	
580		DC99	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
581	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
582		DFB7	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
583		DFB9	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
584		DRP17	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
585		DRP18	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
586		DRP22	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
587		DRP23	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
588		DRP7	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
589		DR101	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
590		DR102	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
591		DR103	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
592		DR104	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
593		DR107	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
594		DR121	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
595		DR122	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
596		DR132	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
597		DR133	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
598		DR135	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
599		DR138	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
600		DR139	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
601		DR140	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
602		DR141	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
603		DR142	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
604		DR143	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
605		DR56	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
606		DR58	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
607		DR95	0130-0000-1654	RES. CF 00hm 1/16W J 0402	1
608		DR97	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
609		DR98 D7	0130-0000-1654 0390-6005-2103	RES. CF 0ohm 1/16W J 0402 SCHOTTKY DIODE 0.5A/40V MBR0540T1G SOD-123 LF	1 1
611		FB39	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
612		FB40	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
613		FB41	0370-0001-4773	CHIP BEAD CORE 800hm (MCB1608H800GA) LF	1
614		FB42	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
615		FB43	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
616		FB44	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
617		FB45	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
618		FB46	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
619		FB47	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
620		FB48	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
621		FB49	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
622		FB5	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
623		FB50	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
624		FB52	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
625		FB53	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
626		FB54	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
627		FB55	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
628		FB56	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
629		FB57	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF CHIP BEAD 80ohm 6A 0805 (GB201212K800TM)	1 1
630		FB8	0370-0001-4282	LF	
631		R123	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
632		R306	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
633		R309	0130-3908-1858	RES. CF 3.90hm 1/8W J 0805	1
634		R335	0130-2000-1654	RES. CF 2000hm 1/16W J 0402	1
635		R336	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
636	R337	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
637	R339	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
638	R341	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
639	R342	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
640	R343	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
641	R344	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
642	R346	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
643	R347	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
644	R348	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
645	R349	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
646	R351	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
647	R356	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
648	R359	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
649	R367	0130-2000-1654	RES. CF 200ohm 1/16W J 0402	1
650	R400	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
651	R44	0131-4999-1614	RES. MF 49.9ohm 1/16W F 0402	1
652	R446	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
653	R447	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
654	R448	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
655	R45	0131-4999-1614	RES. MF 49.9ohm 1/16W F 0402	1
656	R470	0130-0000-1859	RES. CF 0.0ohm 1/8W J 1206	1
657	R471	0130-0000-1859	RES. CF 0.0ohm 1/8W J 1206	1
658	R497	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
659	R5	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
660	R54	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
661	R55	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
662	R59	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
663	R69	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
664	R76	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
665	R82	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
666	R87	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
667	R88	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
668	R89	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
669	R90	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
670	R91	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
671	R92	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
672	R93	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
673	R96	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
674	R98	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
675	R99	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
676	VZ27	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
677	VZ28	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
678	VZ29	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
679	VZ30	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F ESD PROTECTOR 5V (VPORT 0603 220K V05)	1
680	VZ33	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
681	VZ34	0272-0014-0960	ESD PROTECTOR 4V SMD (MLVS0603M04) L-F	1
682	VZ35	0272-0014-0960	ESD PROTECTOR 4V SMD (MLVS0603M04) L-F	1
683	VZ37	0272-0014-0960	ESD PROTECTOR 4V SMD (MLVS0603M04) L-F	1
684	VZ38	0272-0014-0960	ESD PROTECTOR 4V SMD (MLVS0603M04) L-F	1

364700120150T MAIN BD ASS'Y GV47L FHDTV10A SMD TOP

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			0171-2272-2235	PCB MAIN BD FR4 380*168*1.6t 4M (PLT-4271/5071)(1:1)	1
2		C1	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
3	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
4		C10	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
5	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
6		C106	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
7	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
8		C107	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
9	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
10		C108	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
11	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
12		C109	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
13	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
14		C11	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
15	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
16		C110	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
17	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
18		C111	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
19	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
20		C112	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
21	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
22		C114	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
23	SS		0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	
24		C115	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
25	SS	2442	0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	
26	00	C116	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
27	SS	0447	0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	4
28	00	C117	0111-3332-5117	C/M Multi: 3300PF 50V X7R K 0402	1
29	SS	C440	0112-3332-5117	C/M Multi: 3300PF 50V X7R K 0402 L-F	4
30	SS	C118	0111-3332-5117 0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 C/M Multi. 3300PF 50V X7R K 0402 L-F	1
32	33	C119	0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-P	1
33	SS	0115	0112-3332-5117	C/M Multi. 3300PF 50V X7R K 0402 L-F	,
34	33	C12	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
35	SS	OTZ	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	,
36	50	C120	0111-3332-5117	C/M Multi. 3300PF 50V X7R K 0402	1
37	SS	3120	0112-3332-5117	C/M Multi. 3300FF 50V X7R K 0402 L-F	•
38		C129	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
39	SS	- 	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
40		C13	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
41	SS	-	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	-
42		C132	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
43	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
44		C139	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
45	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
46		C14	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
47	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
48		C15	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
49	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
50		C159	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
51	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
52		C16	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
53	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	

54	ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
56	54		C163	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
58	55	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
S8	56		C164	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
58 SS	57	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
60	58		C165	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
61 SS	59	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
62	60		C166	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
63 SS	61	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
64	62		C167	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
66 SS	63	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
66	64		C168	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
67 SS	65	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
68	66		C169	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
69 SS	67	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
70	68		C17	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
71 SS	69	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
72	70		C170	0111-3821-5117	C/M Multi. 820pF 50V X7R K 0402	1
73 SS	71	SS		0112-3821-5117	C/M Multi. 820pF 50V X7R 0402 L-F	
74	72		C176	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
75 SS	73	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
76	74		C18	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
77 SS	75	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
78	76		C182	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
78	77	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
80	1		C183	0111-3104-1617		1
80	1	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
82	80		C185	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
83 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 84 C193 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 85 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 86 C195 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 87 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 C198 0111-3331-5107 C/M Multi. 330PF 50V NPO 0402 1 90 C199 0111-3105-1636 C/M Multi. 330PF 50V NPO J 0402 1 91 SS 0112-3105-1636 C/M Multi. 0.1uF 16V Y5V 0603 1 92 C2 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 93 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1	81	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
83 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 84 C193 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 85 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 86 C195 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 87 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 C198 0111-3331-5107 C/M Multi. 330PF 50V NPO 0402 1 90 C199 0111-3105-1636 C/M Multi. 330PF 50V NPO J 0402 1 91 SS 0112-3105-1636 C/M Multi. 0.1uF 16V Y5V 0603 1 92 C2 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 93 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1	82		C19	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
85 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 86 C195 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 87 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 C198 0111-3331-5107 C/M Multi. 330PF 50V NPO J0402 1 89 SS 0112-3331-5107 C/M Multi. 330PF 50V NPO J 0402 1 90 C199 0111-3105-1636 C/M Multi. 1.0uF 16V Y5V 0603 1 91 SS 0112-3105-1636 C/M Multi. 0.1uF 16V X7R 0402 1 92 C2 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 96 C202 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 99 SS 0112-3103-1617 C/M Multi. 0.1uF 16V X7R K 0402 1		SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
86 C195 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 87 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 C198 0111-3331-5107 C/M Multi. 330PF 50V NPO 0402 1 89 SS 0112-3331-5107 C/M Multi. 330PF 50V NPO J 0402 1 90 C199 0111-3105-1636 C/M Multi. 30PF 16V Y5V 0603 1 91 SS 0112-3105-1636 C/M Multi. 1.0uF 16V Y5V 0603 1 92 C2 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 93 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 96 C202 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R 0402 1 99 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R 0402 1	84		C193	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
86 C195 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 87 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 88 C198 0111-3331-5107 C/M Multi. 330PF 50V NPO 0402 1 89 SS 0112-3331-5107 C/M Multi. 330PF 50V NPO J 0402 1 90 C199 0111-3105-1636 C/M Multi. 30PF 16V VFV 0603 1 91 SS 0112-3105-1636 C/M Multi. 1.0uF 16V YFV 0603 1 92 C2 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 93 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 96 C202 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R 0402 1 99 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R 0402 1	85	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
88 C198 0111-3331-5107 C/M Multi. 330PF 50V NPO 0402 1 89 SS 0112-3331-5107 C/M Multi. 330PF 50V NPO J 0402 1 90 C199 0111-3105-1636 C/M Multi. 1.0uF 16V Y5V 0603 1 91 SS 0112-3105-1636 C/M Multi. 1.0uF 16V Y7R 0402 1 93 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 96 C202 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 98 C204 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 100 C205 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 101 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 101 SS 0112-3103-1617 C/M Multi. 1.9F 16V X7R K 0402			C195	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
89 SS 0112-3331-5107 C/M Multi. 330PF 50V NPO J 0402 90 C199 0111-3105-1636 C/M MULTI 1uF 16V Y5V 0603 1 91 SS 0112-3105-1636 C/M Multi. 1.0uF 16V Y5V 0603 1 92 C2 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 93 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 96 C202 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 98 C204 0111-3103-1617 C/M Multi. 0.1uF 16V X7R 0402 1 99 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 100 C205 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 101 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 102 C209 0111-3189-5107 C/M Multi. 0.01uF 16V X7R K 0402 1 103 SS 0112-3189-5107 C/M Multi. 1.8PF 50V NPO 0402 1 104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	87	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
90	88		C198	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
91 SS 0112-3105-1636 C/M Multi. 1.0uF 16V Y5V 0603 92 C2 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 93 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 96 C202 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 98 C204 0111-3103-1617 C/M Multi. 0.1uF 16V X7R 0402 1 99 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 100 C205 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 101 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 102 C209 0111-3189-5107 C/M Multi. 0.01uF 16V X7R K 0402 1 103 SS 0112-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	1	SS		0112-3331-5107	C/M Multi. 330PF 50V NPO J 0402	
92	90		C199	0111-3105-1636	C/M MULTI 1uF 16V Y5V 0603	1
93 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 96 C202 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 98 C204 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 99 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 100 C205 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 101 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 102 C209 0111-3189-5107 C/M Multi. 0.01uF 16V X7R K 0402 1 103 SS 0112-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 113 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 114 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 115 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 116 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	91	SS		0112-3105-1636	C/M Multi. 1.0uF 16V Y5V 0603	
93 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 94 C20 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 96 C202 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 98 C204 0111-3103-1617 C/M Multi. 0.01uF 16V X7R 0402 1 99 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 100 C205 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 101 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 102 C209 0111-3189-5107 C/M Multi. 0.01uF 16V X7R K 0402 1 103 SS 0112-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 113 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 114 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 115 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 116 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	92		C2	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
95 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 96 C202 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 97 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 98 C204 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 99 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 100 C205 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 101 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 102 C209 0111-3189-5107 C/M Multi. 0.01uF 16V X7R K 0402 1 103 SS 0112-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402	93	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
96	94		C20	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
96	1	SS			C/M Multi. 0.1uF 16V X7R 0402	
98			C202			1
98	97	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
99 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 100 C205 0111-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 1 101 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 102 C209 0111-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 103 SS 0112-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	ı		C204	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
101 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 102 C209 0111-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 103 SS 0112-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	99	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
101 SS 0112-3103-1617 C/M Multi. 0.01uF 16V X7R K 0402 102 C209 0111-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 103 SS 0112-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	100		C205	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
102 C209 0111-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 103 SS 0112-3189-5107 C/M MULTI 1.8PF 50V NPO 0402 1 104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	1	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
104 C21 0111-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 1 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	102		C209	0111-3189-5107	C/M MULTI 1.8PF 50V NPO 0402	1
105 SS 0112-3104-1617 C/M Multi. 0.1uF 16V X7R 0402 106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	103	SS		0112-3189-5107	C/M MULTI 1.8PF 50V NPO 0402	
106 C213 0130-2203-1654 RES. CF 220Kohm 1/16W J 0402 1 107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	104		C21	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	105	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
107 C215 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	106		C213	0130-2203-1654	RES. CF 220Kohm 1/16W J 0402	1
108 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402			C215	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
109 C216 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	108	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
110 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 111 C217 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1 112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	109		C216	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402	1	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
112 SS 0112-3220-5107 C/M Multi. 22PF 50V NPO J 0402			C217	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
1 113 C218 0111-3220-5107 C/M Multi. 22PF 50V NPO J 0402 1	112	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
1	113		C218	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
114	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
115		C219	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
116	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
117		C22	0111-3106-1135	C/M MULTI. 10uF 10V Y5V 0805	1
118	SS		0112-3106-1135	C/M MULTI 10uF 10V Y5V 0805	
119		C220	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
120	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
121		C221	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
122	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
123		C232	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
124	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
125		C233	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
126	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
127		C234	0111-3101-5107	C/M Multi. 100PF 50V NPO J 0402	1
128	SS		0112-3101-5107	C/M Multi. 100PF 50V NPO J 0402	
129		C237	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
130	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
131		C239	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
132	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
133		C240	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
134	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
135		C241	0111-3104-1616	C/M Multi. 0.1uF 16V X7R 0603	1
136		C242	0111-3101-5107	C/M Multi. 100PF 50V NPO J 0402	1
137	SS		0112-3101-5107	C/M Multi. 100PF 50V NPO J 0402	
138		C244	0111-3104-1616	C/M Multi. 0.1uF 16V X7R 0603	1
139		C245	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
140	SS		0112-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	
141		C246	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
142	SS		0112-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	
143		C248	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
144	SS		0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	
145		C249	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
146	SS	0050	0112-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	
147		C250	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
148	SS	0050	0112-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	
149	00	C253	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
150	SS	0054	0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	4
151	00	C254	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
152	SS	COEE	0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	4
153	cc	C255	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
154	SS	C256	0112-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	4
155	99	C256	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
156 157	SS	C257	0112-3473-2517 0111-3150-5107	C/M Multi. 0.047uF 25V X7R 0402 C/M Multi. 15PF 50V NPO 0402	1
157	SS	0231	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402 C/M Multi. 15PF 50V NPO 0402	ı
159	00	C258	0111-3331-5107	C/M Multi. 13PF 50V NPO 0402 C/M Multi. 330PF 50V NPO 0402	1
160	SS	0200	0112-3331-5107	C/M Multi. 330PF 50V NPO J 0402	ı
161	00	C259	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
162	SS	5255	0112-3473-2517	C/M Multi. 0.047uF 25V X7R 0402 C/M Multi. 0.047uF 25V X7R 0402	ı
163		C260	0111-3473-2517	C/M Multi. 0.047ul 25V X7R 0402	1
164	SS	3200	0112-3473-2517	C/M Multi. 0.047ul 25V X7R 0402	ı
165		C261	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
166	SS	··	0112-3331-5107	C/M Multi. 330FF 50V NPO J 0402	,
167		C262	0111-3331-5107	C/M Multi. 330PF 50V NPO 0402	1
168	SS		0112-3331-5107	C/M Multi. 330PF 50V NPO J 0402	,
169		C263	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
170	SS	2_00	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	,
171		C264	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
172	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
173		C265	0111-3472-5117	C/M Multi. 4700PF 50V X7R K 0402	1
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ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
174	SS		0112-3472-5117	C/M Multi. 4700PF 50V X7R K 0402 L-F	
175		C266	0111-3472-5117	C/M Multi. 4700PF 50V X7R K 0402	1
176	SS		0112-3472-5117	C/M Multi. 4700PF 50V X7R K 0402 L-F	
177		C267	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
178	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
179		C268	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
180	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
181		C269	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
182	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
183		C270	0111-3102-5117	C/M MULTI 1000PF 50V X7R 0402	1
184	SS		0112-3102-5117	C/M Multi. 1000PF 50V X7R 0402	
185		C271	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
186	SS		0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	
187		C272	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
188	SS		0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	
189		C273	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
190	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
191		C274	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
192	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
193		C275	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
194	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
195		C276	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
196	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
197		C277	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
198	SS		0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	
199		C278	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
200	SS		0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	
201		C279	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
202	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
203		C280	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
204	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
205		C283	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
206	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
207		C284	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
208	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
209		C285	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
210	SS		0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	
211		C286	0111-3150-5107	C/M Multi. 15PF 50V NPO 0402	1
212	SS		0112-3150-5107	C/M Multi. 15PF 50V NPO 0402	
213		C287	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
214	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
215	00	C288	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
216	SS	0200	0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
217	00	C290	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
218	SS	C202	0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	4
219	cc	C292	0111-3103-1617	C/M Multi, 0.01uF 16V X7R K 0402	1
220	SS	C202	0112-3103-1617	C/M Multi, 0.01uF 16V X7R K 0402	4
221	99	C293	0111-3472-5117	C/M Multi. 4700PF 50V X7R K 0402 C/M Multi. 4700PF 50V X7R K 0402 L-F	1
222	SS	C294	0112-3472-5117		4
223	99	C294	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
224 225	SS	C296	0112-3103-1617 0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402 C/M Multi. 0.01uF 16V X7R K 0402	1
1	99	0230			1
226 227	SS	C297	0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402 C/M Multi. 0.01uF 16V X7R K 0402	1
1	SS	0231	0111-3103-1617 0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402 C/M Multi. 0.01uF 16V X7R K 0402	1
228	JJ	C299	0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402 C/M Multi. 0.01uF 16V X7R K 0402	1
230	SS	0233	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402 C/M Multi. 0.01uF 16V X7R K 0402	1
230	JJ	C3	0112-3103-1617	C/M Multi. 0.1uF 16V X/R K 0402	1
232	SS	55	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
232	00	C300	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402 C/M Multi. 0.1uF 16V X7R 0402	1
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ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
234	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
235		C301	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
236	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
237		C302	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
238	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
239		C303	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
240	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
241		C304	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
242	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
243		C305	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
244	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
245		C306	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
246	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
247		C307	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
248	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
249		C308	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
250	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
251		C309	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
252	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
253		C310	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
254	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
255		C311	0111-3104-1616	C/M Multi. 0.1uF 16V X7R 0603	1
256		C313	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
257		C317	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
258	SS		0111-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	•
259		C319	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
260		C323	0111-3104-1616	C/M Multi. 0.1uF 16V X7R 0603	1
261		C326	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
262	SS	0020	0111-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	
263	00	C330	0111-3104-1616	C/M Multi. 0.1uF 16V X7R 0603	1
264		C332	0111-3104-1616	C/M Multi. 0.1uF 16V X7R 0603	1
265		C336	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
266	SS	0000	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
267	00	C341	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
268	SS	0041	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
269	00	C342	0111-3475-1135	C/M MULTI 4.7uF 10V Y5V 0805	1
270	SS	0342	0112-3475-1135	C/M MULTI 4.7uF 10V Y5V 0805	'
271	33	C242	0111-3475-1135	C/M MULTI 4.7uF 10V Y5V 0805	1
1	00	C343			1
272	SS	C244	0112-3475-1135	C/M MULTI 4.7uF 10V Y5V 0805	4
273	99	C344	0111-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	1
274	SS	C247	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	4
275	99	C347	0111-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	1
276	SS	C249	0112-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	4
277	cc	C348	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
278	SS	C240	0112-3104-1617	C/M Multi, 0.1uF 16V X7R 0402	4
279	cc	C349	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
280	SS	0250	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	4
281	00	C350	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
282	SS	0255	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	4
283	00	C355	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
284	SS	0050	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	,
285	00	C356	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
286	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
287		C359	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
288	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
289		C363	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
290	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
291		C364	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
292	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
293		C365	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
294	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
295		C366	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
296	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
297		C375	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
298	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
299		C382	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
300	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
301		C392	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
302	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
303		C396	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
304	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
305		C397	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
306	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
307		C398	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
308	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
309		C4	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
310	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
311		C40	0112-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603	1
312	SS		0111-3475-6056	C/M MULTI 4.7uF 6.3V X5R K 0603 L-F	
313		C41	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
314	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
315		C6	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
316	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
317		C7	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
318	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
319		C8	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
320	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
321		C82	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
322	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
323		C83	0111-3270-5107	C/M MULTI 27PF 50V NPO 0402	1
324	SS		0112-3270-5107	C/M Multi. 27PF 50V NPO 5% 0402	
325		C9	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
326	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
327		DC1	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
328	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
329		DC10	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
330	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
331		DC11	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
332	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
333		DC111	0111-3100-5107	C/M Multi. 10PF 50V NPO J 0402	1
334	SS		0112-3100-5107	C/M Multi. 10PF 50V NPO 0402	
335		DC113	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
336	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
337		DC120	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
338	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
339		DC128	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
340	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
341		DC129	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
342	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
343		DC134	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
344	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
345		DC138	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
346	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
347		DC139	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
348	SS	- + -	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
349		DC14	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
350	SS	- *	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	•
351		DC140	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
			2 0.07 1017		•

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
352	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
353		DC141	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
354	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
355		DC15	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
356	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
357		DC16	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
358	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
359		DC170	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
360	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
361		DC171	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
362	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
363		DC172	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
364	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
365		DC179	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
366	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
367		DC180	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
368	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
369		DC182	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
370	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
371		DC183	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
372	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
373		DC184	0111-3104-5166	C/M MULTI 0.1UF 50V X7R J 0603	1
374	SS		0112-3104-5166	C/M Muitl. 0.1uF 50V X7R J 0603	
375		DC185	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
376	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
377		DC186	0111-3104-1616	C/M Multi. 0.1uF 16V X7R 0603	1
378		DC187	0111-3101-5107	C/M Multi. 100PF 50V NPO J 0402	1
379	SS		0112-3101-5107	C/M Multi. 100PF 50V NPO J 0402	
380		DC188	0111-3101-5107	C/M Multi. 100PF 50V NPO J 0402	1
381	SS		0112-3101-5107	C/M Multi. 100PF 50V NPO J 0402	
382		DC19	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
383	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
384		DC20	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
385	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
386		DC21	0111-3104-5166	C/M MULTI 0.1UF 50V X7R J 0603	1
387	SS		0112-3104-5166	C/M Muitl. 0.1uF 50V X7R J 0603	
388		DC22	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
389	SS		0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	
390		DC23	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
391	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
392	0.5	DC24	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
393	SS	B005	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
394	0.5	DC25	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
395	SS	B000	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
396	00	DC26	0111-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	1
397	SS	D007	0112-3473-2517	C/M Multi. 0.047uF 25V X7R 0402	
398	00	DC27	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
399	SS	DCCC	0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
400	00	DC29	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
401	SS	DC24	0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
402	00	DC31	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
403	SS	DC22	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
404	00	DC32	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
405	SS	DC22	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	4
406	00	DC33	0111-3106-1135	C/M MULTI. 10uF 10V Y5V 0805	1
407	SS	DC2E	0112-3106-1135	C/M MULTI 10uF 10V Y5V 0805	4
408	cc	DC35	0111-3180-5107	C/M Multi. 18PF 50V NPO 0402	1
409	SS	DC36	0112-3180-5107	C/M Multi. 18PF 50V NPO 0402	4
410		DC36	0111-3180-5107	C/M Multi. 18PF 50V NPO 0402	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
411	SS		0112-3180-5107	C/M Multi. 18PF 50V NPO 0402	
412		DC4	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
413	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
414		DC48	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
415	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
416		DC5	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
417	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
418		DC59	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
419	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
420		DC7	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
421	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
422		DC78	0111-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	1
423	SS		0112-3103-1617	C/M Multi. 0.01uF 16V X7R K 0402	
424		DC79	0111-3470-5107	C/M Multi. 47pF 50V NPO 0402	1
425	SS		0112-3470-5107	C/M Multi. 47PF 50V NPO J 0402	
426		DC8	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
427	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
428	0.5	DC80	0111-3102-5117	C/M MULTI 1000PF 50V X7R 0402	1
429	SS	500	0112-3102-5117	C/M Multi. 1000PF 50V X7R 0402	_
430	0.0	DC9	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
431	SS	D007	0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
432		DC97	0111-3220-5107	C/M Multi. 22PF 50V NPO J 0402	1
433	SS	554	0112-3220-5107	C/M Multi. 22PF 50V NPO J 0402	,
434		DD1	0390-6005-5293	SCHOTTKY DIODE 3A 40V B340A-13-F SMA L-F	1
435		DD2	0390-6005-5293	SCHOTTKY DIODE 3A 40V B340A-13-F SMA L-F CHIP COIL 0.68uH 300mA 0805	1
436		DFB1	0371-6880-0482	(GL201209TR68KTM) LF	1
437		DFB10	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
438		DFB2	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
439		DFB3	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
440		DFB4	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
441		DFB5	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
442		DFB6	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
443		DFB8	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
444		DL10	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
445		DL12	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
446		DL13	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
447		DL14	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
448		DL15	0390-6005-2103	SCHOTTKY DIODE 0.5A/40V MBR0540T1G SOD-123 LF	1
449		DL17	0360-1000-0420	POWER INDUCTOR L:10uH 1.44A 5.8x5.2mm SMD LF	1
450		DL2	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
451		DL3	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
452		DL4	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
453		DL5	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
454		DL6	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
455		DL9	0130-1808-1858	RES. CF 1.8ohm 1/8W J 0805	1
456		DRN25	0141-1001-3851	ARRAY RES. A(X) 1Kohm 4R J 8P	1
457		DRP1	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
458		DRP10	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
459		DRP11	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
460		DRP12	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
461		DRP13	0141-7509-3851	ARRAY RES. A(X) 750hm 4R J 8P	1
462		DRP14	0141-2209-3851	ARRAY RES. A(X) 220hm 4R J 8P	1
463	_	DRP15	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
464	DRP16	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
465	DRP19	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
466	DRP2	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
467	DRP20	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
468	DRP21	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
469	DRP24	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
470	DRP25	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
471	DRP26	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
472	DRP27	0141-7509-3851	ARRAY RES. A(X) 750hm 4R J 8P	1
473	DRP3	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
474	DRP4	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
475	DRP5	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
476	DRP6	0141-7509-3851	ARRAY RES. A(X) 750hm 4R J 8P	1
477	DRP8	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
478	DRP9	0141-4709-3851	ARRAY RES. A(X) 470hm 4R J 8P	1
479	DR1	0130-3309-1654	RES. CF 330hm 1/16W J 0402	1
480	DR10	0130-0000-1654	RES. CF 4.7Kohm 1/16W J 0402	1
481	DR100	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402 RES. CF 0ohm 1/16W J 0402	1
482	DR106	0130-0000-1654		1 1
483 484	DR11	0130-1501-1654	RES. CF 1.5Kohm 1/16W J 0402 RES. CF 4.7Kohm 1/16W J 0402	1
484	DR110 DR111	0130-4701-1654 0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402 RES. CF 4.7Kohm 1/16W J 0402	1
486	DR112	0130-4701-1654	RES. CF 47/Norm 1/16W J 0402	1
487	DR113	0130-4709-1654	RES. CF 470hm 1/16W J 0402	1
488	DR114	0130-4709-1654	RES. CF 470hm 1/16W J 0402	1
489	DR115	0130-7509-1654	RES. CF 750hm 1/16W J 0402	1
490	DR116	0130-7509-1654	RES. CF 750hm 1/16W J 0402	1
491	DR117	0130-2209-1654	RES. CF 220hm 1/16W J 0402	1
492	DR118	0130-7509-1654	RES. CF 750hm 1/16W J 0402	1
493	DR119	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
494	DR12	0130-1003-1654	RES. CF 100Kohm 1/16W J 0402	1
495	DR120	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
496	DR123	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
497	DR124	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
498	DR125	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
499	DR126	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
500	DR127	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
501	DR128	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
502	DR129	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
503	DR13	0130-1801-1654	RES. CF 1.8Kohm 1/16W J 0402	1
504	DR130	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
505	DR131	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
506	DR134	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
507	DR137	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
508	DR14	0130-1501-1654	RES. CF 1.5Kohm 1/16W J 0402	1
509	DR144	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
510	DR145	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
511	DR146	0131-6341-1614	RES. MF 6.34 Kohm 1/16W F 0402	1
512	DR147	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
513	DR15	0130-1201-1654	RES. CF 1.2Kohm 1/16W J 0402	1
514	DR16	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
515	DR18	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
516	DR21	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
517	DR23	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
518	DR24	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
519	DR25	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
520	DR27	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
521	DR28	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
522	DR31	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
523		DR32	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
524		DR33	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
525		DR35	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
526		DR36	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
527		DR37	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
528		DR38	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
529		DR39	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
530		DR4	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
531		DR40	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
532		DR41	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
533		DR42	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
534		DR43	0130-1004-1654	RES. CF 1Mohm 1/16W J 0402	1
535		DR44	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
536		DR5	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
537		DR52	0130-8201-1654	RES. CF 8.2Kohm 1/16W J 0402	1
538		DR53	0130-5109-1654	RES. CF 51ohm 1/16W J 0402	1
539		DR55	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
540		DR57	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
541		DR59	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
542		DR6	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
543		DR60	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
544		DR61	0130-1003-1654	RES. CF 100Kohm 1/16W J 0402	1
545		DR7	0130-1801-1654	RES. CF 1.8Kohm 1/16W J 0402	1
546		DR8	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
547		DR9	0130-1003-1654	RES. CF 100Kohm 1/16W J 0402	1
548		DR99	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
549		DU14	0430-3039-4645	IC MX29LV320CTTC-70G 48PIN TSOP LF IC FLASH 32M EN29LV320T-70TCP TSOP 48PIN	1
550	SS		0430-3039-4648	LF	
551		DU14X	0991-2003-0801	SOFTWARE GV47L FHDTV10A CPU:GV47LDMM01.bin	1
552		DU15	0430-7031-9603	IC DDR 16Mx16 NT5DS16M16CS-5T 66PIN TSOPII LF	1
553	SS		0430-7032-1612	IC DDR 16Mx16 A2S56D40BTP-G5PP 66PIN TSOPII LF	
554		DU16	0430-7031-9603	IC DDR 16Mx16 NT5DS16M16CS-5T 66PIN TSOPII LF	1
555	SS		0430-7032-1612	IC DDR 16Mx16 A2S56D40BTP-G5PP 66PIN TSOPII LF	
556		DU17	0430-6010-9028	IC G2996F1Uf 8PIN SOP-8(FD) LF	1
557		DU18	0430-6015-8079	IC DC/DC CONVERTER AP1522WA SOT23-5 5PIN LF	1
558		DU2	0430-6007-5079	IC AP1117E33LA LF SOT-223	1
559	SS		0430-6007-5075	IC AME1117CCGTZ 3PIN SOT-223 L-F	
560		DU3	0430-6002-8079	IC AP1117E25LA SOT-223 L-F	1
561		DU4	0430-6009-1051	IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF	1
562		DU5	0430-6015-5079	IC STEP DOWN CONVERTER AP1513SA SOP 8PIN LF	1
563		DU6	0430-6015-5079	IC STEP DOWN CONVERTER AP1513SA SOP 8PIN LF	1
564		DU7	0430-7043-5092	IC SWITCH PI5C3257QE QSOP 16PIN LF	1
565		DU8	0430-7043-1999	IC DEMODULATOR MT5112BD LQFP 100PIN LF	1
566		DU9	0430-7035-1999	IC MT5351AG 471PIN BGA LF	1
567		DX1	0286-2700-0024	OSC 27MHz 25ppm 3.3V SMD VCXO	1
568	00	D1	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
569	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
570	SS	D10	0390-5004-2223	GEN. DIODE LL 4448WD SMD 1206 L. F	4
571	99	D10	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
572	SS SS		0390-3006-7353 0390-5004-2223	DIODE FAST 0.3A 100V LL4148 LL-34 LF GEN. DIODE RLS4148NTE-11 SMD L-F	
573 574	33	D11	0390-5004-2223	DUAL SURFACE DIODES BAV99-7-F SOT-23 L-F	1
575	SS	511	0390-5003-5273	DUAL SURFACE DIODES BAV99-7-F 301-23 L-F	1
576	00	D12	0390-5003-5293	DUAL SURFACE DIODES BAV99-7-F SOT-23 L-F	1
				23. 12 33117 (32 313 DEC 37 (V 00-7-1 00 1-20 E-1	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
577	SS		0390-5003-5273	DUAL SURFACE DIODE BAV99 SMD (SOT-23) L-F	
578		D13	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
579	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
580	SS		0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
581		D14	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
582	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
583	SS		0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
584		D15	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
585	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
586	SS		0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
587		D16	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
588	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
589	SS	5.47	0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
590		D17	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
591	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
592	SS	240	0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
593		D18	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
594	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
595	SS	D0	0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	_
596	00	D2	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
597	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
598	SS	D04	0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	4
599	00	D21	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
600	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
601	SS	Daa	0390-5004-2223	GEN. DIODE LL 4448NTE-11 SMD L-F	4
602	00	D22	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
603	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
604	SS	DOE	0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	1
605		D25 D3	0390-6005-9283	SCHOTTKY DIODE SS14-S100 SMA LF	1
606 607	SS	DS	0390-5004-2343 0390-3006-7353	GEN. DIODE LL4148WP SMD 1206 L-F DIODE FAST 0.3A 100V LL4148 LL-34 LF	1
608	SS		0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
609	33	D4	0390-5004-2223	GEN. DIODE ILL4148WP SMD 1206 L-F	1
610	SS	D4	0390-3004-2343	DIODE FAST 0.3A 100V LL4148 LL-34 LF	ı
611	SS		0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
612		D5	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
613	SS	D 0	0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	•
614	SS		0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
615		D6	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
616	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	·
617	SS		0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
618		D9	0390-5004-2343	GEN. DIODE LL4148WP SMD 1206 L-F	1
619	SS		0390-3006-7353	DIODE FAST 0.3A 100V LL4148 LL-34 LF	
620	SS		0390-5004-2223	GEN. DIODE RLS4148NTE-11 SMD L-F	
621		FB1	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
622		FB10	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
623		FB11	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
624		FB12	0370-0001-4282	CHIP BEAD 800hm 6A 0805 (GB201212K800TM) LF	1
625		FB13	0370-0001-4282	CHIP BEAD 800hm 6A 0805 (GB201212K800TM)	1
626		FB14	0370-0001-4773	CHIP BEAD CORE 800hm (MCB1608H800GA) LF	1
627		FB15	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
628		FB16	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
629		FB17	0370-0001-4773	CHIP BEAD CORE 800hm (MCB1608H800GA) LF	1
630		FB19	0370-0001-4282	CHIP BEAD 800hm 6A 0805 (GB201212K800TM) LF CHIP BEAD COPE 800hm (MCR1608H800GA) LE	1 1
631 632		FB22 FB23	0370-0001-4773 0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
633		FB23 FB24	0370-0001-4773	CHIP BEAD CORE 800hm (MCB1608H800GA) LF	1
033		1 024	0010-0001-4113	OTHER DEAD COINE GOODHIT (MICE TOUGHOUGH) LF	ı

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
634	FB25	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
635	FB26	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
636	FB27	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
637	FB28	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
638	FB29	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
639	FB3	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
640	FB30	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
641	FB31	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
642	FB32	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
643	FB33	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
644	FB34	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
645	FB37	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
646	FB4	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
647	FB51	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
648	FB58	0370-0001-4773	CHIP BEAD CORE 80ohm (MCB1608H800GA) LF	1
649	FB59	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
650	FB6	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
651	FB60	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
652	FB61	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
653	FB63	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
654	FB9	0370-0001-4282	CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF	1
655	F1	0185-1302-0073	FUSE 125V/3A SMD (R451003) LF	1
656	F2	0185-1152-0073	FUSE 125V/1.5A SMD (R45101.5) L-F	1
657	F3	0185-1152-0073	FUSE 125V/1.5A SMD (R45101.5) L-F	1
658	J5	0302-2000-2306	CONN MALE R/A 30P SMD (MS240430G) L-F	1
659	LG13	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
660	LG14	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
661	LG15	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
662	LG16	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
663	L10	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
664	L11	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
665	L12	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
666	L13	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
667	L14	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
668	L15	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
669	L16	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
670	L17	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
671	L18	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
672	L19	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
673	L20	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
674	L21	0130-4700-0055	RES. CF 470ohm 1/10W J 0603	1
675	L22	0130-4700-0055	RES. CF 470ohm 1/10W J 0603	1
676	L23	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
677	L24	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
678	L27	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
679	L28	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
680	L29	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
681	L30	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
682	L7	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
683	L8	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
684	L9	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
685	P10	0304-1000-0113	CONN HDMI 19P 90' SMD With Flange (392M19-H58) L-F	1
686	P11	0304-1000-0113	CONN HDMI 19P 90' SMD With Flange (392M19-H58) L-F	1
687	Q1	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
688	SS	0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
689	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
690	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
691		Q10	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
692	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
693	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
694	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
695		Q11	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
696	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
697	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
698	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
699		Q13	0420-1004-9621	MOSFET N-CH 2N7002E-T1-E3 SMD (SOT-23) L-F	1
700	SS		0420-1004-9610	MOSFET N-CH 2N7002LT1G 60V 115mA SMD (SOT-23) LF	
701	SS		0420-1004-9611	MOSFET N-CH 2N7002 SMD (SOT-23) LF	
702		Q14	0420-1004-9621	MOSFET N-CH 2N7002E-T1-E3 SMD (SOT-23) L-F	1
703	SS		0420-1004-9610	MOSFET N-CH 2N7002LT1G 60V 115mA SMD (SOT-23) LF	
704	SS	0.15	0420-1004-9611	MOSFET N-CH 2N7002 SMD (SOT-23) LF	
705	0.5	Q15	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
706	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
707	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
708	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
709		Q16	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
710	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
711	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
712	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
713		Q18	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
714	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
715	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
716	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
717		Q19	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
718	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
719	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
720	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
721		Q20	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
722	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
723	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
724	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
725		Q21	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
726	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
727	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
728	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
729		Q22	0410-5000-5710	TRANSISTOR MMBT3906LT1G SOT-23 L-F	1
730	SS		0410-5000-5711	TRANSISTOR PMBS3906 SMD LF	
731	SS		0410-5000-5719	TRANSISTOR KN3906S SOT-23 LF	
732		Q24	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
733	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
734	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
735	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
736		Q25	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
737	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
738	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
739	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
740		Q27	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
741	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
742	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
743	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
744		Q28	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
745	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
746	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
747	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
748		Q29	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
749	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
750	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
751	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
752		Q3	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
753	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
754	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
755	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
756		Q31	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
757	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
758	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
759	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
760		Q32	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
761	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
762	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
763	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
764		Q33	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
765	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
766	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
767	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
768		Q34	0420-1004-9621	MOSFET N-CH 2N7002E-T1-E3 SMD (SOT-23) L-F	1
769	SS		0420-1004-9610	MOSFET N-CH 2N7002LT1G 60V 115mA SMD (SOT-23) LF	
770	SS		0420-1004-9611	MOSFET N-CH 2N7002 SMD (SOT-23) LF	
771		Q35	0410-5000-5710	TRANSISTOR MMBT3906LT1G SOT-23 L-F	1
772	SS		0410-5000-5711	TRANSISTOR PMBS3906 SMD LF	
773	SS		0410-5000-5719	TRANSISTOR KN3906S SOT-23 LF	
774		Q36	0410-5000-5710	TRANSISTOR MMBT3906LT1G SOT-23 L-F	1
775	SS		0410-5000-5711	TRANSISTOR PMBS3906 SMD LF	
776	SS		0410-5000-5719	TRANSISTOR KN3906S SOT-23 LF	
777		Q4	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
778	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
779	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
780	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
781		Q5	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
782	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
783	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
784	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
785		Q6	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
786	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
787	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
788	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
789		Q7	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
790	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
791	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
792	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
793		Q8	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
794	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
795	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
796	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
797		Q9	0410-5000-5610	TRANSISTOR MMBT3904LT1G SOT-23 L-F	1
798	SS		0410-5000-5611	TRANSISTOR PMBS3904 SMD T LF	
799	SS		0410-5000-5619	TRANSISTOR KN3904S SOT-23 LF	
800	SS		0410-5000-5622	TRANSISTOR MMBT3904 NL SOT-23 L-F	
801		RP1	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
802		RP10	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
803		RP11	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
804	RP12	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
805	RP13	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
806	RP14	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
807	RP15	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
808	RP16	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
809	RP17	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
810	RP18	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
811	RP19	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
812	RP2	0141-7509-3851	ARRAY RES. A(X) 750hm 4R J 8P	1
813	RP20	0141-4709-3851	ARRAY RES. A(X) 470hm 4R J 8P	1
814	RP21	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
815	RP22	0141-7509-3851	ARRAY RES. A(X) 750hm 4R J 8P	1
816	RP23	0141-2209-3851	ARRAY RES. A(X) 220hm 4R J 8P	1
817	RP24	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
818	RP25	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
819	RP26	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
820	RP27	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
821	RP28	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
822 823	RP29 RP3	0141-4709-3851	ARRAY RES. A(X) 470hm 4R J 8P	1 1
		0141-2209-3851 0141-4709-3851	ARRAY RES. A(X) 220hm 4R J 8P	1
824 825	RP30 RP31	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P ARRAY RES. A(X) 47ohm 4R J 8P	1
826	RP35	0141-3309-3851	ARRAY RES. A(X) 330hm 4R J 8P	1
827	RP36	0141-3309-3851	ARRAY RES. A(X) 330hm 4R J 8P	1
828	RP37	0141-3309-3851	ARRAY RES. A(X) 330hm 4R J 8P	1
829	RP38	0141-3309-3851	ARRAY RES. A(X) 330hm 4R J 8P	1
830	RP39	0141-3309-3851	ARRAY RES. A(X) 330hm 4R J 8P	1
831	RP4	0141-2209-3851	ARRAY RES. A(X) 220hm 4R J 8P	1
832	RP40	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
833	RP41	0141-3309-3851	ARRAY RES. A(X) 33ohm 4R J 8P	1
834	RP5	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
835	RP6	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
836	RP7	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
837	RP8	0141-7509-3851	ARRAY RES. A(X) 75ohm 4R J 8P	1
838	RP9	0141-4709-3851	ARRAY RES. A(X) 47ohm 4R J 8P	1
839	R1	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
840	R10	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
841	R100	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
842	R101	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
843	R104	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
844	R105	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
845	R106	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
846	R107	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
847	R108	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
848	R109	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
849	R11	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
850	R110	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
851	R111	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
852	R112	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
853	R113	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
854	R114	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
855	R115	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
856	R116	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
857	R117	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
858	R118	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
859	R119	0130-0000-1654	RES. CF 00hm 1/16W J 0402	1
860	R12	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
861	R120	0130-0000-1654	RES. CF 00hm 1/16W J 0402	1
862	R127	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
863	R128	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
864	R129	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
865	R13	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
866	R130	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
867	R131	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
868	R132	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
869	R133	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
870	R134	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
871	R136	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
872	R137	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
873	R139	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
874	R141	0130-4709-1654	RES. CF 470hm 1/16W J 0402	1
875	R142	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
876	R143	0130-4709-1654	RES. CF 470hm 1/16W J 0402	1
877	R144	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
878	R145	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
879	R146	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
880	R147	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
881	R148	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
882	R149	0130-3302-1654	RES. CF 33Kohm 1/16W J 0402	1
883	R15	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
884	R150	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
885	R151	0130-3302-1654	RES. CF 33Kohm 1/16W J 0402	1
886	R152	0130-1001-1654	RES. CF 180ahra 1/16W J 0402	1
887	R153	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
888	R154	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1 1
889	R158	0130-8201-1654	RES. CF 8.2Kohm 1/16W J 0402	1
890	R16	0130-1001-1654	RES. CF 100Kehm 1/16W J 0402	1
891 892	R163	0130-1003-1654	RES. CF 100Kohm 1/16W J 0402 RES. CF 18ohm 1/16W J 0402	1
893	R165 R166	0130-1809-1654 0130-5609-1654	RES. CF 560hm 1/16W J 0402	1
894	R167	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
895	R168	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
896	R169	0130-1809-1654	RES. CF 180hm 1/16W J 0402	1
897	R17	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
898	R171	0130-5609-1654	RES. CF 560hm 1/16W J 0402	1
899	R172	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
900	R173	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
901	R174	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
902	R175	0131-7509-1614	RES. MF 75ohm 1/16W F 0402	1
903	R176	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
904	R177	0131-7509-1614	RES. MF 75ohm 1/16W F 0402	1
905	R178	0131-7509-1614	RES. MF 75ohm 1/16W F 0402	1
906	R18	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
907	R182	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
908	R183	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
909	R184	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
910	R185	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
911	R186	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
912	R187	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
913	R188	0131-7509-1614	RES. MF 75ohm 1/16W F 0402	1
914	R189	0131-7509-1614	RES. MF 75ohm 1/16W F 0402	1
915	R190	0131-7509-1614	RES. MF 75ohm 1/16W F 0402	1
916	R191	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
917	R192	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
918	R193	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
919	R194	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
920	R195	0130-2702-1654	RES. CF 27Kohm 1/16W J 0402	1
921	R196	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
922	R198	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
923	R199	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
924	R2	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
925	R20	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
926	R200	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
927	R201	0130-5101-1654	RES. CF 5.1Kohm 1/16W J 0402	1
928	R202	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
929	R203	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
930	R204	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
931	R205	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
932	R206	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
933	R207	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
934	R208	0131-7509-1614	RES. MF 75ohm 1/16W F 0402	1
935	R209	0131-7509-1614	RES. MF 750hm 1/16W F 0402	1
936	R21	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
937	R210	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
938	R211	0130-2702-1654	RES. CF 27Kohm 1/16W J 0402	1
939	R212	0130-6802-1654	RES. CF 68Kohm 1/16W J 0402	1
940	R213	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
941	R214	0130-1002-1654 0130-5101-1654	RES. CF 11Kohm 1/16W J 0402	1
942	R215	0130-5101-1654	RES. CF 5.1Kohm 1/16W J 0402 RES. CF 1Kohm 1/16W J 0402	1
943 944	R216		RES. CF 1K0nm 1/16W J 0402 RES. CF 0ohm 1/16W J 0402	1 1
945	R217	0130-0000-1654 0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
946	R218 R219	0130-4701-1654	RES. CF 47Kohm 1/16W J 0402	1
947	R220	0130-4701-1654	RES. CF 47Kohm 1/16W J 0402	1
948	R221	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
949	R222	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
950	R223	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
951	R224	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
952	R225	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
953	R226	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
954	R227	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
955	R228	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
956	R229	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
957	R23	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
958	R230	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
959	R231	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
960	R232	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
961	R233	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
962	R234	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
963	R235	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
964	R236	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
965	R237	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
966	R238	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
967	R239	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
968	R24	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
969	R240	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
970	R241	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
971	R242	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
972	R243	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
973	R244	0130-6803-1654	RES. CF 1800hm 1/16W J 0402	1
974	R245	0130-1800-1654	RES. CF 180-hm 1/16W J 0402	1
975	R246	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
976	R247	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
977	R248	0130-1800-1654	RES. CF 1800hm 1/16W J 0402	1
978 979	R249 R25	0130-0000-1654 0130-1002-1654	RES. CF 0ohm 1/16W J 0402 RES. CF 10Kohm 1/16W J 0402	1 1
980	R250	0130-1002-1654	RES. CF 10k01111 1/16W J 0402 RES. CF 0ohm 1/16W J 0402	1
981	R251	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
982	R252	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
	11202	0.00 0000-1004	01 0001(01111 1/1011 0 0702	'

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
983	R253	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
984	R254	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
985	R255	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
986	R256	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
987	R257	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
988	R258	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
989	R259	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
990	R26	0130-4703-1654	RES. CF 470Kohm 1/16W J 0402	1
991	R260	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
992	R261	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
993	R262	0130-0000-1654	RES. CF 00hm 1/16W J 0402	1
994	R263	0130-1800-1654	RES. CF 180ohm 1/16W J 0402	1
995	R264	0130-1800-1654	RES. CF 1800hm 1/16W J 0402	1
996	R265	0130-6803-1654	RES. CF 680Kohm 1/16W J 0402	1
997	R266	0130-6803-1654 0130-1000-1654	RES. CF 680Kohm 1/16W J 0402 RES. CF 100ohm 1/16W J 0402	1 1
998 999	R267	0130-1000-1654	RES. CF 1000HH 1/16W J 0402	1
	R268		RES. CF 750hm 1/16W J 0402	
1000 1001	R269 R27	0130-7509-1654 0130-1002-1654	RES. CF 750nm 1/16W J 0402 RES. CF 10Kohm 1/16W J 0402	1 1
1001	R270	0130-6809-1654	RES. CF 10R01111 1/16W J 0402	1
1002	R270 R271	0130-6609-1654	RES. CF 10Kohm 1/16W J 0402	1
1003	R272	0130-1002-1054	RES. CF 100ohm 1/16W J 0402	1
1004	R273	0130-1000-1054	RES. CF 10Kohm 1/16W J 0402	1
1006	R274	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1007	R275	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1007	R276	0130-7509-1654	RES. CF 750hm 1/16W J 0402	1
1009	R277	0130-6809-1654	RES. CF 68 ohm 1/16W J 0402	1
1010	R278	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1011	R279	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
1012	R28	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1013	R280	0130-6809-1654	RES. CF 68 ohm 1/16W J 0402	1
1014	R281	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1015	R282	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1016	R283	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1017	R284	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
1018	R285	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1019	R286	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1020	R287	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
1021	R288	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
1022	R289	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
1023	R29	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1024	R290	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1025	R291	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1026	R292	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1027	R293	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1028	R294	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1029	R295	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1030	R296	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1031	R297	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1032	R298	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1033	R299	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1034	R3	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1035	R30	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1036	R300	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1037	R301	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1038	R302	0130-0000-1654	RES. CF 00hm 1/16W J 0402	1
1039	R303	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1040	R304	0130-0000-1654	RES. CF 00hm 1/16W J 0402	1
1041	R305	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
1042	R307	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1043	R31	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1044	R311	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1045	R312	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1046	R314	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
1047	R316	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1048	R319	0130-3908-1858	RES. CF 3.9ohm 1/8W J 0805	1
1049	R321	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1050	R322	0131-1100-1614	RES. MF 110ohm 1/16W F 0402	1
1051	R323	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1052	R324	0130-3301-1654	RES. CF 3.3Kohm 1/16W J 0402	1
1053	R325	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1054	R326	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1055	R327	0131-2219-1614	RES. MF 22.1 ohm 1/16W F 0402	1
1056	R328	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
1057	R329	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1058	R33	0131-1100-1614	RES. MF 110ohm 1/16W F 0402	1
1059	R331	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
1060	R333	0130-1801-1654	RES. CF 1.8Kohm 1/16W J 0402	1
1061	R334	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1062	R338	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
1063	R34	0131-6199-1614	RES. MF 61.9ohm 1/16W F 0402	1
1064	R340	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1065	R350	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1066	R352	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
1067	R355	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1068	R357	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1069	R358	0130-1008-1858	RES. CF 1.0ohm 1/8W J 0805	1
1070	R36	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1071	R360	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1072	R361	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1073	R362	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1074	R363	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1075	R364	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1076	R365	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1077	R366	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1078	R368	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1079	R369	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
1080	R370	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
1081	R373	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1082	R374	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1083	R375	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1084	R376	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1085	R378	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1086	R38	0130-0000-1858	RES. CF 0.0ohm 1/8W J 0805	1
1087	R380	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1088	R381	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1089	R383	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1090	R386	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1091	R387	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1092	R388	0130-3309-1654	RES. CF 330hm 1/16W J 0402	1
1093	R389	0130-3309-1654	RES. CF 330hm 1/16W J 0402	1
1094	R390	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1095	R391	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1096	R392	0130-3309-1654	RES. CF 330hm 1/16W J 0402	1
1097	R393	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1098	R394	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1099	R395	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
1100	R396	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1

ITEM	M/S LOCATION	PART NO.	DESCRIPTION	Q'TY
1101	R397	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1102	R398	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1103	R40	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1104	R402	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1105	R403	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1106	R404	0130-0000-1859	RES. CF 0.0ohm 1/8W J 1206	1
1107	R405	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1108	R406	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
1109	R408	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
1110	R410	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
1111	R411	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1112	R412	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1113	R413	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1114	R414	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1115	R415	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1116	R416	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1117	R417	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1118	R419	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
1119	R42	0130-0000-1654	RES. CF 00hm 1/16W J 0402	1
1120	R421	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1121	R423	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
1122	R424	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
1123	R426	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1124	R427	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1125	R428	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1126	R429	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1127	R43	0130-8200-1654	RES. CF 8200hm 1/16W J 0402	1 1
1128	R432	0130-1002-1654 0130-1000-1654	RES. CF 10Kohm 1/16W J 0402 RES. CF 100ohm 1/16W J 0402	1
1129 1130	R433 R434	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
1131	R438	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
1132	R443	0130-1501-1654	RES. CF 1.5Kohm 1/16W J 0402	1
1133	R444	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
1134	R445	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1135	R449	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1136	R450	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1137	R451	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1138	R46	0131-4999-1614	RES. MF 49.9ohm 1/16W F 0402	1
1139	R47	0131-4999-1614	RES. MF 49.9ohm 1/16W F 0402	1
1140	R473	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1141	R476	0130-2202-1654	RES. CF 22Kohm 1/16W J 0402	1
1142	R477	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1143	R478	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1144	R479	0130-4702-1654	RES. CF 47Kohm 1/16W J 0402	1
1145	R48	0130-8203-1654	RES. CF 820Kohm 1/16W J 0402	1
1146	R484	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1147	R49	0130-3309-1654	RES. CF 33ohm 1/16W J 0402	1
1148	R491	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1149	R492	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1150	R50	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1151	R51	0130-0000-1654	RES. CF 00hm 1/16W J 0402	1
1152	R52	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1153	R53	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1154	R56	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1155	R57	0130-2209-1654	RES. CF 220hm 1/16W J 0402	1
1156	R58	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1157	R6	0130-1002-1654	RES. CF 1/Kohm 1/16W J 0402	1
1158	R60	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1159	R61	0130-7509-1654	RES. CF 4.7Kohm 1/16W J 0402	1 1
1160	R62 FNTIAL – DO NOT C	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	Page 12-61

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1161		R63	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
1162		R64	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
1163		R65	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
1164		R66	0130-4709-1654	RES. CF 47ohm 1/16W J 0402	1
1165		R67	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
1166		R68	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1167		R70	0130-4701-1654	RES. CF 4.7Kohm 1/16W J 0402	1
1168		R71	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
1169		R72	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1170		R73	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
1171		R74	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1172		R75	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
1173		R77	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
1174		R78	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1175		R79	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
1176		R8	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1177		R80	0130-7509-1654	RES. CF 75ohm 1/16W J 0402	1
1178		R81	0130-1000-1654	RES. CF 100ohm 1/16W J 0402	1
1179		R83	0130-2209-1654	RES. CF 22ohm 1/16W J 0402	1
1180		R85	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1181		R86	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1182		R9	0130-1002-1654	RES. CF 10Kohm 1/16W J 0402	1
1183		R94	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1184		R95	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
1185		R97	0130-1001-1654	RES. CF 1Kohm 1/16W J 0402	1
1186	00	U1	0420-1005-4601	POWER MOS IRF7316TRPBF SMD 8PIN LF	1
1187	SS	U10	0420-2004-9629	MOSFET P-CH 5A 30V AP4953GM SO-8 LF IC AP1117E18LA LF SOT-223	1
1188 1189	SS	010	0430-6005-5079 0430-6009-7075	IC AME1117ECGTZ 1.8V 3PIN SOT-223 L-F	1
1190	33	U11	0430-7044-4999	IC LCD SCALER MT8206AG/BD-L BGA 388PIN LF	1
1191		U11H	1712-0400-1930	HEAT SINK(46*46*20)(GV47L)	1
1192		U12	0430-3039-3645	IC MX29LV160CTTC-70G 48PIN TSOP LF	1
1193	SS	0.12	0430-3039-3648	IC FLASH 16M EN29LV160AT-70TCP TSOP 48PIN LF	·
1194		U12X	0991-2003-0701	SOFTWARE GV47L FHDTV10A CPU:GV47LAMM01.bin	1
1195		U13	0430-7037-4629	IC DDR 8Mx16 V58C2128164SBI5 66PIN TSOP-II LF	1
1196		U14	0430-7037-4629	IC DDR 8Mx16 V58C2128164SBI5 66PIN TSOP-II LF	1
1197		U15	0430-6010-9028	IC G2996F1Uf 8PIN SOP-8(FD) LF	1
1198		U16	0430-6002-8079	IC AP1117E25LA SOT-223 L-F	1
1199		U17	0430-3006-9011	IC AT24C04N-10SU-2.7 SO-8 L-F	1
1200		U18	0430-6009-1051	IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF	1
1201		U19	0430-7041-6999	IC HDMI CINEMA RECEIVER MT8293AE-L 128Pin QFP LF	1
1202		U2	0420-1005-4601	POWER MOS IRF7316TRPBF SMD 8PIN LF	1
1203	SS		0420-2004-9629	MOSFET P-CH 5A 30V AP4953GM SO-8 LF	
1204		U20	0430-3039-6011	IC AT24C02BN-10SU-1.8 8Pin SOIC L-F IC DUAL OP AMP NJM4558M-TE3 PB	1
1205 1206		U21 U22	0430-1010-9088 0430-0001-8015	SO8(DMP8) L-F IC CD4052BNSR 16PIN SOP16 L-F	1 1
1200		U23	0430-7027-3699	IC CD4032BNSK 10FIN SOF16 L-F IC WM8776SEFT 48PIN TQFP L-F	1
1208		U27	0430-6015-6099	IC RESET STL8110GCL438 4.38V SOT-23 3PIN LF	1
1209		U28	0430-3004-3011	LF IC AT24C16AN-10SU-2.7 SO-8 L-F	1
1210		U29	0430-0001-8015	IC CD4052BNSR 16PIN SOP16 L-F	1
1211		U3	0420-1005-4601	POWER MOS IRF7316TRPBF SMD 8PIN LF	1
1212	SS		0420-2004-9629	MOSFET P-CH 5A 30V AP4953GM SO-8 LF	
1213		U30	0430-1010-8615	IC TTL LOGIC CD74HC157M96 SOIC 16PIN LF	1
1214		U31	0430-7044-1092	IC SWITCH PI3HDMI412FTZHE TQFN 42PIN LF	1
1215		U32	0430-3039-6011	IC AT24C02BN-10SU-1.8 8Pin SOIC L-F	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1216		U33	0430-7043-5092	IC SWITCH PI5C3257QE QSOP 16PIN LF	1
1217		U34	0430-3039-6011	IC AT24C02BN-10SU-1.8 8Pin SOIC L-F	1
1218		U4	0430-6007-5079	IC AP1117E33LA LF SOT-223	1
1219	SS		0430-6007-5075	IC AME1117CCGTZ 3PIN SOT-223 L-F	
1220		U5	0430-6009-1051	IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF	1
1221		U6	0430-6007-5079	IC AP1117E33LA LF SOT-223	1
1222	SS		0430-6007-5075	IC AME1117CCGTZ 3PIN SOT-223 L-F	
1223		U7	0430-6005-5079	IC AP1117E18LA LF SOT-223	1
1224	SS		0430-6009-7075	IC AME1117ECGTZ 1.8V 3PIN SOT-223 L-F	
1225		U8	0430-6007-5079	IC AP1117E33LA LF SOT-223	1
1226	SS		0430-6007-5075	IC AME1117CCGTZ 3PIN SOT-223 L-F	
1227		U9	0430-6005-5079	IC AP1117E18LA LF SOT-223	1
1228	SS		0430-6009-7075	IC AME1117ECGTZ 1.8V 3PIN SOT-223 L-F	
1229		VZ1	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1230		VZ10	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1231		VZ11	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1232		VZ12	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1233		VZ13	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1234		VZ14	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1235		VZ15	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1236		VZ16	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1237		VZ17	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1238		VZ18	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1239		VZ19	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1240		VZ2	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1241		VZ20	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1242		VZ21	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1243		VZ25	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1244		VZ26	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1245		VZ3	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1246		VZ31	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1247		VZ32	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1248		VZ4	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1249		VZ5	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1250		VZ6	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1251		VZ7	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1252		VZ8	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1253		VZ9	0272-0005-0960	ESD PROTECTOR 5V (VPORT 0603 220K V05) L-F	1
1254		ZD1	0400-0601-5012	ZENER 6.06~6.33V UDZSTE-176.2BB 1/5W SOD-323	1
1255		ZD2	0400-0941-2012	ZENER RLZ-10B 9.41~9.90V 1/2W LL-34 L-F	1

364700120156B DISPLAY BD ASS'Y GV47L FHDTV10A SMD BOT

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1		D1	0440-2000-0126	LED AMBER LH-06038P1-A2-B10-02 SMD 0603 LF	1
2		D2	0440-2000-0126	LED AMBER LH-06038P1-A2-B10-02 SMD 0603 LF	1
3		D3	0440-2000-0126	LED AMBER LH-06038P1-A2-B10-02 SMD 0603 LF	1
4		D4	0440-2000-0126	LED AMBER LH-06038P1-A2-B10-02 SMD 0603 LF	1
5		D5	0440-2000-0126	LED AMBER LH-06038P1-A2-B10-02 SMD 0603 LF	1
6		D6	0440-2000-0126	LED AMBER LH-06038P1-A2-B10-02 SMD 0603 LF	1
7		D7	0440-2000-0126	LED AMBER LH-06038P1-A2-B10-02 SMD 0603 LF	1

364700120156B DISPLAY BD ASS'Y GV47L FHDTV10A SMD BOT

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			1701-0900-2150	MYLAR DISPLAY BD (GV47L F HDTV)(180.0*15.0*0.4t)	1

364700120156T DISPLAY BD ASS'Y GV47L FHDTV10A SMD TOP

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	Q'TY
1			0171-1771-1780	PCB DISPLAY BD FR4 182*17*1.6t (GV47L)(1:10)	1
2		CD1	0111-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	1
3	SS		0112-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	
4		CD10	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
5	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
6		CD11	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
7	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
8		CD2	0111-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	1
9	SS		0112-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	
10		CD3	0111-3223-1617	C/M Multi. 0.022uF 16V X7R K 0402	1
11	SS		0112-3223-1617	C/M Multi. 0.022uF 16V X7R K 0402	
12		CD4	0111-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	1
13	SS		0112-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	
14		CD5	0111-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	1
15	SS		0112-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	
16		CD6	0111-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	1
17	SS		0112-3153-1617	C/M MULTI 0.015UF 16V X7R 0402	
18		CD7	0111-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	1
19	SS		0112-3104-1617	C/M Multi. 0.1uF 16V X7R 0402	
20		CD8	0112-3563-1617	C/M Multi. 0.056uF 16V X7R K 0402	1
21	SS		0111-3563-1617	C/M Multi. 0.056uF 16V X7R K 0402	
22		CD9	0112-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	1
23	SS		0111-3224-2516	C/M Multi. 0.22uF 25V X7R 0603	
24		Q1	0420-1004-9621	MOSFET N-CH 2N7002E-T1-E3 SMD (SOT-23) L-F	1
25	SS		0420-1004-9610	MOSFET N-CH 2N7002LT1G 60V 115mA SMD (SOT-23) LF	
26	SS		0420-1004-9611	MOSFET N-CH 2N7002 SMD (SOT-23) LF	
27		RD1	0131-2211-1614	RES. MF 2.21 Kohm 1/16W F 0402	1
28		RD10	0131-1002-1614	RES. MF 10Kohm 1/16W F 0402	1
29		RD11	0131-2211-1614	RES. MF 2.21 Kohm 1/16W F 0402	1
30		RD12	0131-1002-1614	RES. MF 10Kohm 1/16W F 0402	1
31		RD13	0131-1004-1614	RES. MF 1M ohm 1/16W F 0402	1
32		RD14	0131-2211-1614	RES. MF 2.21 Kohm 1/16W F 0402	1
33		RD15	0131-1002-1614	RES. MF 10Kohm 1/16W F 0402	1
34		RD16	0131-2212-1614	RES. MF 22.1 Kohm 1/16W F 0402	1
35		RD19	0131-1212-1614	RES. MF 12.1Kohm 1/16W F 0402	1
36		RD2	0131-1002-1614	RES. MF 10Kohm 1/16W F 0402	1
37		RD20	0131-5602-1818	RES. MF 56Kohm 1/8W F 0805	1
38		RD22	0131-5602-1818	RES. MF 56Kohm 1/8W F 0805	1
39		RD24	0131-2701-1818	RES. MF 2.7Kohm 1/8W F 0805	1
40		RD25	0131-1502-1818	RES. MF 15Kohm 1/8W F 0805	1
41		RD26	0131-4701-1818	RES. MF 4.7Kohm 1/8W F 0805	1
42		RD27	0131-1802-1818	RES. MF 18Kohm 1/8W F 0805	1
43		RD28	0131-3091-1818	RES. MF 3.09Kohm 1/8W F 0805	1
44		RD29	0131-7501-1818	RES. MF 7.5 Kohm 1/8W F 0805	1
45		RD3	0130-0000-1654	RES. CF 0ohm 1/16W J 0402	1
46		RD30	0131-1002-1614	RES. MF 10Kohm 1/16W F 0402	1
47		RD31	0131-4321-1818	RES. MF 4.32Kohm 1/8W F 0805	1
48		RD33	0131-1004-1614	RES. MF 1M ohm 1/16W F 0402	1
49		RD34	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
50		RD35	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
51		RD36	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
52		RD37	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
53		RD38	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1

ITEM	M/S LOC	ATION PART NO.	DESCRIPTION	Q'TY
54	RD39	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
55	RD4	0131-2211-1614	RES. MF 2.21 Kohm 1/16W F 0402	1
56	RD40	0130-4700-1654	RES. CF 470ohm 1/16W J 0402	1
57	RD5	0131-2211-1614	RES. MF 2.21 Kohm 1/16W F 0402	1
58	RD6	0131-1002-1614	RES. MF 10Kohm 1/16W F 0402	1
59	RD7	0131-2211-1614	RES. MF 2.21 Kohm 1/16W F 0402	1
60	RD8	0131-2211-1614	RES. MF 2.21 Kohm 1/16W F 0402	1
61	RD9	0131-1002-1614	RES. MF 10Kohm 1/16W F 0402	1
62	UD1	0431-0001-0944	IC QT1080-ISG 32PIN QFN L-F	1
63	WD1	0451-1250-0886	WAFER 1.25mm 8P 180' SMD (MS24018) L-F	1