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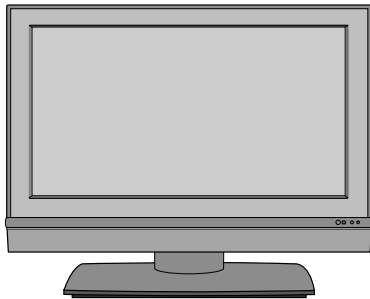
LCD TV

SERVICE MANUAL

CHASSIS : LB61A
FACTORY MODEL : 32LC2D-AA

MODEL : 32LC2D

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by \triangle in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

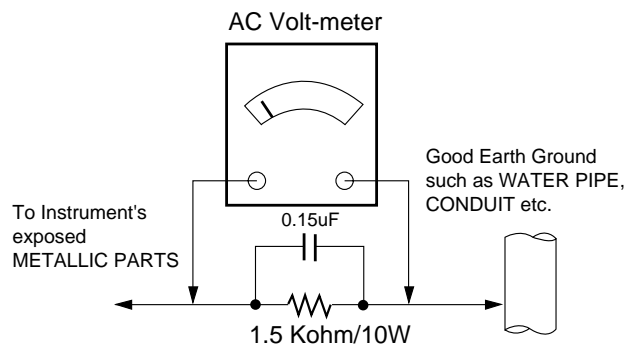
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
 - d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush.
(It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to LB61A chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Temperature : 25°C±5°C(77±9°F)
- (2) Humidity : 65%±10%
- (3) Power : Standard input voltage (AC 100-240V, 50/60Hz)
*Standard Voltage of each products is marked by models
- (4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.
- (5) The receiver must be operated for about 20 minutes prior to the adjustment.

3. Test method

- 3.1 Performance : LGE TV test method followed
- 3.2 Demanded other specification
Safety : CB Specification
EMC : CISPR 13 Specification

4. General TV Specification

No	Item	Specification	Remark
1.	Broadcasting system	PAL-B/G, DTV : DVB-T	
2.	Available Channel	1) VHF : 0~5,5A,6~9,9A,10~12 2) UHF : 20 ~ 75 3) CATV: 02 ~ 44 4) DTV : 06 ~9,9A,10~12, 27 ~ 69	
3.	Tuner IF	1) PAL : 38.90MHz(Picture), 34.40MHz(Sound) 2) DVB-T : 36.125MHz	
4.	Input Voltage	AC 240 V, 50Hz	Maker : LGE
5.	LCD Module	32" : LC320W01-SL11 (1366x768)	Maker : LG Philips LCD
6.	Aspect ratio	16:9 (wide)	
7.	Operating Temperature	0	40 deg
8.	Operating Humidity		85 %
9.	Storage Temperature	-20	60 deg
10.	Storage Humidity		85 %

5. Chroma & Brightness

No	Item		Min	Typ	Max	Unit	Remark
1.	Brightness		250	400		cd/m ²	
2.	Contrast Ratio		500:1	600:1			
3.	Luminance Variation				1.3	%	
4.	Viewing Angle(Left, Right, Up, Down)		85	88		Degree	
5.	Color coordinate	RED	X	Typ - 0.03	0.640	Typ + 0.03	
			Y		0.343		
		GREEN	X		0.280		
			Y		0.605		
		BLUE	X		0.145		
			Y		0.065		
		WHITE (Standard)	X		0.285		
			Y		0.293		
6.	Color Temperature	Medium	8,300	9,300	10,300	°K	< Test Signal > HDMI input, PSM : Dynamic 85% Full white pattern, 5MPCD
		Cool	11,000	12,000	13,000	°K	
		Warm	5,500	6,500	7,500	7,500	

6. Model Specification

No	Item	Specification		Remark
1.	Market	EU		
2.	Broadcasting system	PAL BG//DK, SECAM		
3.	Available Channel	BAND	PAL	
		VHF/UHF CATV	C1 ~ C69 S1 ~ S47	
4.	Receiving system	Upper Heterodyne		
5.	SCART Jack(2EA)	PAL, SECAM, NTSC		4 System : PAL, SECAM, NTSC, PAL60
6.	Video Input (2EA)	PAL, SECAM, NTSC		4 System : PAL, SECAM, NTSC, PAL60
7.	S-Video Input (2EA)	PAL, SECAM, NTSC		4 System : PAL, SECAM, NTSC, PAL60
8.	Component Input (1EA)	Y/Cb/Cr, Y/ Pb/Pr		
9.	RGB Input (1EA)	RGB-PC, RGB-DTV		
10.	HDMI Input (2EA)	HDMI-PC HDMI-DTV		
11.	Audio Input (4 EA)	PC Audio, Component (1EA), AV (2EA)		L/R Input
12.	Wired Control (1EA)			
13.	Audio variable out(1EA)			

7. Component Video Input (Y, PB, PR)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock(MHz)	Remarks
1.	720*576	15.625	50.00	13.50	SDTV576i
2.	720*576	31.25	50.00	27.00	SDTV576p
3.	720*480	15.73/15.75	59.94/60.00	13.50	SDTV 480i
4.	720*480	31.47/31.50	59.94/60.00	27.00	SDTV 480p
5.	1280*720	44.96/45.00	59.94/60.00	74.25	HDTV 720P
6.	1280*720	37.50	50.00	74.25	HDTV 720P
7.	1920*1080	33.72/33.75	59.94/60.0	74.25	HDTV 1080i
8.	1920*1080	28.125	50.00	74.25	HDTV 1080i

8. RGB, HDMI/DVI input (DTV / PC)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock(MHz)	Remarks
DTV					
1.	720*576	31.25	50.00	27.00	SDTV576p
2.	720*480	31.47/31.50	59.94/60.00	27.00	SDTV 480p
3.	1280*720	44.96/45.00	59.94/60.00	74.25	HDTV 720P
4.	1280*720	37.50	50.00	74.25	HDTV 720P
5.	1920*1080	33.72/33.75	59.94/60.0	74.25	HDTV 1080i
6.	1920*1080	28.125	50.00	74.25	HDTV 1080i
PC					
1.	640*350	31.468	70.09	25.17	EGA
2.	640*480	31.469	59.94	25.17	VESA(VGA)
3.	640*480	37.861	72.80	31.50	VESA(VGA)
4.	640*480	37.500	75.00	31.50	VESA(VGA)
5.	800*600	35.156	56.25	36.00	VESA(SVGA)
6.	800*600	37.879	60.31	40.00	VESA(SVGA)
7.	800*600	48.077	72.18	50.00	VESA(SVGA)
8.	800*600	46.875	75.00	49.50	VESA(SVGA)
9.	1024*768	48.363	60.00	65.00	VESA(XGA)
10.	1024*768	56.476	70.06	75.00	VESA(XGA)
11.	1024*768	60.023	75.02	78.75	VESA(XGA)

9. LCD MODULE

9-1. General specifications(module)

No	Item	Typ	Unit	Remark	
1	Active Screen Size	800.4(diagonal)	mm	31.51 inches	
2	Outline Dimension	760(H) x 450(V) x 48(D)	mm	Typ.	
3	Pixel Pitch	170.25 x 510.75 x RGB	μm		
4	Pixel Format	1366(H)x768(V) RGB stripe arrangement			
5	Color Depth	8bit 16.7	Mbit		
6	Luminance ,White	500	cd/m ²	Center 1 point	
7	Viewing Angle (CR>10)	R/L 176(Typ),U/P 176(Typ)	degree		
8	Power Consumption	89.5	Watt	Typ.	
9	Weight	7.2	kg		
10	Display Operating Mode	Transmissive mode ,normally black			
11	Surface Treatment	Hard coating (3H), Anti-glare treatment			
12	Altitude	Operating	0-14,000	feet	Altitude
		Storage/Shipment	0-40,000	feet	
13	Lamp Life Time	50,000 (min.)	Hrs	25°±2°C	

9-2. Electro Optical Characteristic Specifications(module standard)

No	Item	Min	Typ	Max	Unit	Remark	
1	Contrast Ratio	CR	800:1	1200:1		It measured at center point	
		CR with AI	1200:1	1600:1			
2	Surface Luminance, White	400	600		Cd/m ²	Full white	
3	Luminance Variation			1.3		(δ white/5P)	
4	Response Time		8	16	msec		
5	Color coordinate	RED	X	Typ -0.03	0.640	Typ +0.03	Full Pattern
			Y		0.343		
		GREEN	X	0.280			
			Y	0.605			
		BLUE	X	0.145			
			Y	0.065			
		WHITE	X	0.285			
			Y	0.293			
6	Viewing Angle (CR>10)	X axis right(φ =0)	85	88		degree	
		X axis left(φ =180)	85	88			
		Y axis up (φ =90)	85	88			
		Y axis down(φ =270)	85	88			

9-3. Mechanical Specification

No	Item	Min	Typ	Max	Unit	Remark
1.	C/A + MODULE GAP	0.5	0.7	1.0	mm	
2.	C/A+B/C GAP	0.2	0.5	0.8	mm	
3.	C/A+DECO FRONT GAP (ONE SIDE)	0.1	0.3	0.5	mm	
4.	Product Dimension	(W) 911.4 X (H) 599 X (D) 259			mm	With stand
		(W) 911.4 X (H) 511.5 X (D) 124.2				mm
	Product Weight	23.5 kg			kg	With stand

ADJUSTMENT INSTRUCTION

1. Application Object

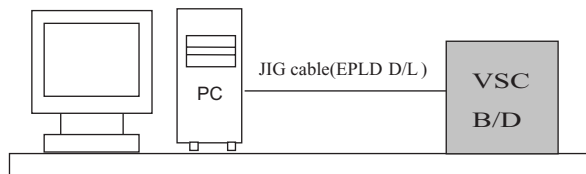
These instructions are applied to all of the 32" LCD TV, LB61A Chassis

2. Notes

- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test equipment.
 - (2) Adjustments must be done in the correct order.
 - (3) The adjustments must be performed in the circumstance of $25\pm 5^{\circ}\text{C}$ of temperature and $65\pm 10\%$ of relative humidity if there is no specific designation.
 - (4) The input voltage of the receiver must be kept 220V~, 60Hz when adjusting.
 - (5) The receiver must be operational for about 15 minutes prior to the adjustments.
- o Preliminary action is applied to the test for afterimage discharge detection, and 100% FULL WHITE PATTERN must be operated automatically.
 - o Test for afterimage discharge detection
 - 1) After pressing Power Only key (only operating by pressing Power Only key), Full Test Pattern (2 min 30sec) --> Full Black Pattern (30sec) --> After this state, Full White Pattern is displayed.
(but you must preset the program for Full White State when you press the Main Power Off/On)
 - 2) Pattern Mode is deselected by pressing CH +/-, Exit Key.
- [Set is activated HEAT-RUN without signal generator in this mode.

If you turn on a still screen more than 20 minutes (Especially Digital pattern, Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

3. EPLD Download



<Fig. 1> Connection Diagram of CPLD Download

- (1) Test Equipment: PC, Jig for download
- (2) Connect the power of VSC B/D.
- (3) Execute download program of PC.
- (4) After executing the hot key on the Programmer, click icon.
- (5) End after confirming.

4. MICOM Download

- (1) Test Equipment: PC, Jig for download
- (2) Connect the power of VSC B/D.
- (3) Execute download program of PC.
- (4) After executing the hot key on the Programmer, click icon.
- (5) End after confirming.

5. MST3362M-Set Adjustment

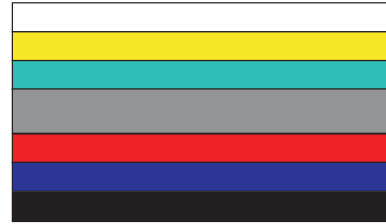
5-1. Synopsis

MST3362M-Set adjustment to set the black level and the Gain of optimum with an automatic movement from the analog => digital converter.

5-2. Test Equipment

Service R/C, 801GF(802B,802F,802R), MSPG-925 Pattern Generator.

(480i, 1080i 60Hz Color Bar Pattern output will be possible and the output level will accurately have to be revised with $0.7\pm 0.1\text{Vp-p}$)



(Fig. 2) Adjust Pattern : 480i, 1080i 60Hz Color Bar Pattern

5-3. Adjustment

(1) How to adjustment the Component1

- 1) Select Component1 as the input with Color Bar Pattern in 480i 60Hz mode and select 'Component1' on screen.
- 2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '1. ADC 480i Comp1'. Pressing the Vol+ Key to adjust the component1.
- 3) When the adjustment is over, 'Component1 Adjustment OK' is displayed. If the adjustment has errors, 'Component1 Adjustment Failed! Try Again!' is displayed.
- 4) Readjust after confirming the case Pattern or adjustment condition where the adjustment had errors.
- 5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

(2) How to adjustment the Component2, RGB

- 1) Select Component2, RGB-DTV as the input with Color Bar Pattern in 1080i 60Hz mode and select 'Component2' on screen.
- 2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '2. ADC 1080i Comp2/RGB'. Pressing the Vol+ Key to adjust the component2.
- 3) When the adjustment is over, 'Component2 Adjustment OK' is displayed. If the adjustment has errors, 'Component2 Adjustment Failed! Try Again!' is displayed. and If the adjustment has errors, 'RGB Adjustment Failed! Try Again!' is displayed.
- 4) Readjust after confirming the case Pattern or adjustment condition where the adjustment had errors.
- 5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

6. Video(uPD)-Set

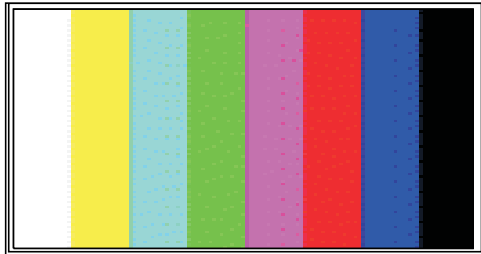
6-1. Synopsis

This is a adjustment to reduce the color difference of video signal Main/Sub Display.

6-2. Required Equipment

Service R/C, MSPG-925 Pattern Generator.

(It's available to output the Color Bar Pattern of the NTSC,PAL)



(Fig. 3) Adjust Pattern :100% 8 Color Bar Pattern

6-3. Adjustment

(1) How to adjustment the uPD PAL

- 1) Select AV1 as the input with 100% 8 Color Bar Pattern in PAL mode and select 'AV1' on screen.
- 2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '3. uPD PAL(Main&Sub)-Set'. Pressing the Vol+ Key to adjust the uPD PAL.
- 3) When the adjustment is over, 'uPD64015 PAL Main Adjustment OK' and 'uPD64015 PAL Sub Adjustment OK' is displayed. If the adjustment has errors, 'uPD64015 PAL Main Error!' or 'uPD64015 PAL Main Error!' is displayed.
- 4) Readjust after confirming the case Pattern or adjustment condition where the adjustment had errors.
- 5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

(2) How to adjustment the uPD NTSC

- 1) Select AV1 as the input with 100% 8 Color Bar Pattern in NTSC mode and select 'AV1' on screen.
- 2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '4. uPD NTSC(Main&Sub)-Set'. Pressing the Vol+ Key to adjust the uPD NTSC.
- 3) When the adjustment is over, 'uPD64015 NTSC Main Adjustment OK' and 'uPD64015 NTSC Sub Adjustment OK' is displayed. If the adjustment has errors, 'uPD64015 NTSC Main Error!' or 'uPD64015 NTSC Main Error!' is displayed.
- 4) Readjust after confirming the case Pattern or adjustment condition where the adjustment had errors.
- 5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

Each PCB Assy must be checked by Check JIG Set before assembly. (Especially, be careful Power PCB Assy which can cause Damage to the PDP Module.)

7. POWER PCB Assy Voltage Adjustment (Va, Vs Voltage Adjustment)

7-1. Test equipment: D.M.M 1EA

7-2. Connection Diagram for Measuring

Refer to Fig.5

7-3. Adjustment Method

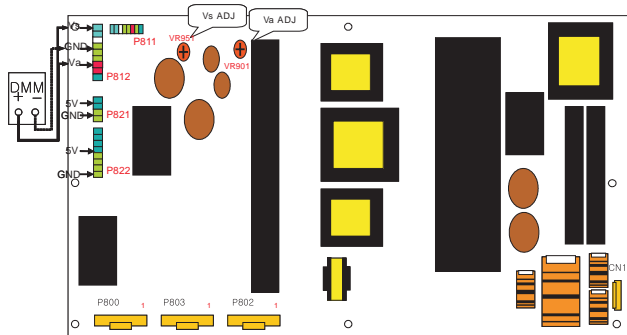
Adjustment Method for Power Board(P/No: 6709900019A)

(1) Va Adjustment

- 1) After receiving 100% Full White Pattern, HEAT RUN.
- 2) Connect + terminal of D.M.M to Va pin of P812, connect - terminal to GND pin of P812.
- 3) After turning VR0901, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; $\pm 0.5V$)

(2) Vs Adjustment

- 1) Connect + terminal of D.M.M to Vs pin of P812, connect - terminal to GND pin of P812.
- 2) After turning VR951, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; $\pm 0.5V$)




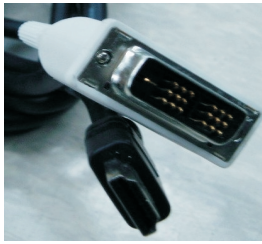
(Fig. 5) Connection Diagram of Power Adjustment for Measuring

8. EDID(The Extended Display Identification Data)/DDC (Display Data Channel) Download

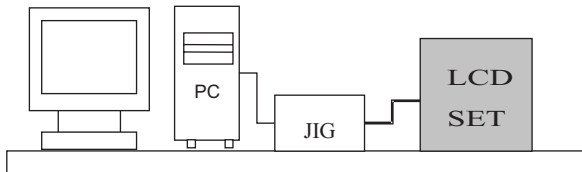
This is the function that enables "Plug and Play".

8-1. Required Test Equipment

- (1) PC, Jig for adjusting DDC.
(PC serial to D-sub Connection equipment)
- (2) DVI to HDMI Connector.

Analog EDID	HDMI EDID
D-sub to D-sub	DVI-D to HDMI
	

8-2. Setting of Device



8-3. EDID DATA

(1) HDMI EDID DATA.

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	0A	10	01	03	80	6E	3E	78	0A	31	30	A5	58	3B	B8	26
20	0F	4B	52	2F	CE	00	31	CA	01	01	01	01	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	3C	6C	32	00	00	18	D6	09	80	A0	20	E0	2D	10
50	08	60	22	00	3C	6C	32	08	08	18	00	00	00	FD	00	37
60	4E	19	3E	08	00	00	00	00	00	00	00	00	00	00	00	FC
70	00	33	32	4C	43	32	44	2D	41	41	0A	20	20	20	01	3B

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	03	1C	72	23	15	07	50	49	12	93	14	04	05	03	01
10	07	16	83	0F	00	00	65	03	0C	00	10	00	8C	0A	D0	90
20	20	40	31	20	0C	40	55	00	4C	6C	42	00	00	18	01	1D
30	00	BC	52	D0	72	1C	16	20	10	2C	25	80	4C	6C	42	00
40	01	1D	80	D0	72	1C	16	20	10	2C	25	80	4C	6C	42	00
50	00	9E	01	1D	00	72	51	D0	1E	20	6E	28	55	00	4C	6C
60	42	00	00	1E	01	1D	80	18	71	1C	16	20	58	2C	25	00
70	4C	6C	42	00	00	9E	00	00	00	00	00	00	00	00	00	24

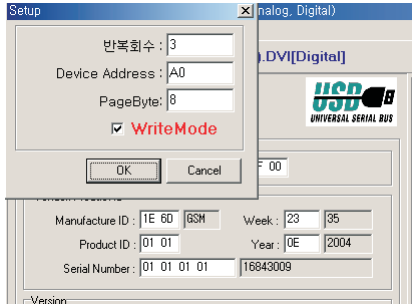
(2) RGB EDID DATA.

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	01	01	01	01	01
10	0A	10	01	03	18	6E	3E	78	0A	56	73	A3	57	49	9C	25
20	11	49	4B	2F	CE	00	31	CA	01	01	01	01	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	3C	6C	32	00	00	18	00	00	00	FD	00	37	4E	19
50	3E	08	00	00	00	00	00	00	00	00	00	00	00	FC	00	33
60	32	4C	43	32	44	2D	41	41	0A	20	20	20	00	00	00	01
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	1C

8-4. Act or set the EDID S/W

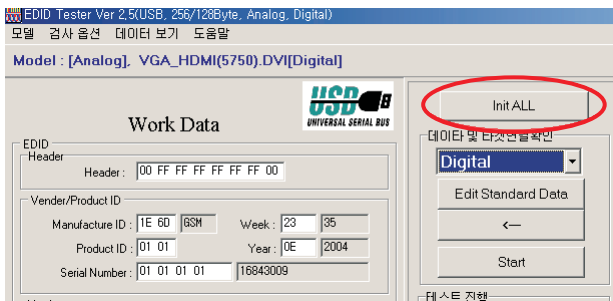
- 1) As above Fig. 6, Connect the Set, EDID Download Jig, PC & Cable.
- 2) Turn on the PC & EDID Download Jig. And Execute the S/W : EDID TESTER Ver.2.5.
- 3) Set up S/W option.

Repeat Number : 3
 Device Address : A0
 PageByte : 8

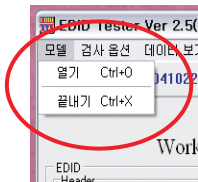


8-5. How to use the EDID S/W

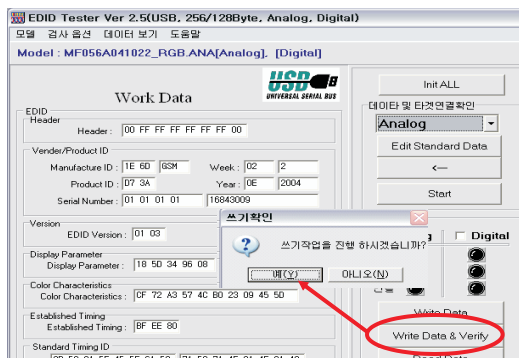
- 1) Init the data.



- 2) Load the EDID data.(Open File)



- 3) Press the "Write Data & Verify" button. and input the data.
- 4) If the writing is finished, you will see the "OK" message.

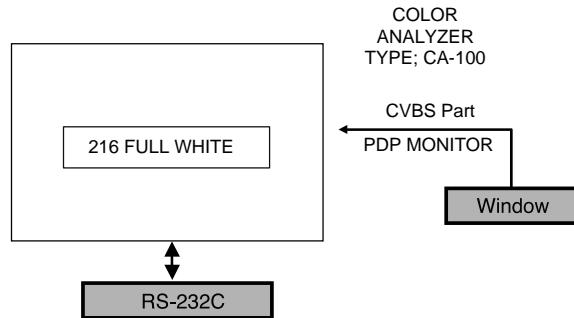


9. Adjustment of White Balance

9-1. Required Equipment

- (1) Color analyzer (CA-210 or similar product)
- (2) Automatic adjustor (with automatic adjustment hour necessity and the RS-232C communication being possible)

9-2. Connection Diagram of Equipment for Measuring (Automatic Adjustment)



<Fig. 6> Connection Diagram of Automatic Adjustment

9-3. Process of automatic adjustment

- (1) As using the white pattern for adjustment the inner part, HDMI connection need not. But as lower part, the RS-232C Command is used.

Wb 00 00 start of automatic adjustment the white balance.
 Wb 00 10 Start of gain adjustment.(inside pattern)
 Ja 00 ff Adjustment Date.
 Jb 00 c0
 ...
 Wb 00 1f Ending gain adjustment.
 As occasion demands , adjust the offset.
 (Wb 00 20(Start) , Wb 00 2f(end))

Caution) When you adjust, automatically, RS-232C Command is used.

[RS-232C Command (Automatic Adjustment)

	RS-232C COMMAND [CMD ID DATA]			Min	CENTER (DEFAULT)(Hex)			Max (Hex)
	Cool	Mid	Warm		Cool	Mid	Warm	
R Gain	Jg	Ja	Jd	00	C0	C0	C0(Fix)	D0
G Gain	Jh	Jb	Je	00	C0	C0(Fix)	C0	D0
B Gain	Ji	Jc	Jf	00	C0(Fix)	C0	C0	D0
R Offset	lp	lj	lm		40	41	3E	7f
G Offset	lq	lk	ln		3E	3E	3E	7f
B Offset	lr	ll	lo		41	42	40	7f

9-4. Adjustment of White Balance

(Automatic Adjustment)

- o Calibrate of the CA-210, then attach sensor to PDP module surface when you adjust.
 - o Manual adjustment is also possible by the following sequence.
- (1) HEAT RUN at least 30 minutes by pressing the Power only Key on the Service Remote Control and adjust. and use power only or tint key and establish BaudRate to 115200.
 - (2) It must start " 00 00", complete "wb 00 ff".
 - (3) Adjust offset.

9-5. Adjustment of White Balance

(Passivity Adjustment)

- (1) HEAT RUN at least 30 minutes by pressing the '7. White-Pattern' on the Service Remote Control and adjust.
- (2) After attaching sensor to center of screen, select '7. White-Balance' of 'Ez - Adjust' by pressing the ADJ KEY on the Service R/C. Then enter adjustment mode by pressing the Right KEY (G). This time white pattern is displayed.
- (3) Adjust the High Light using B Gain/G Gain - [**Cool**].
(B Gain 192, R-Cut/G-Cut/B-Cut: 64/62/65 Fix.)
Adjust the High Light using B Gain/R Gain - [**Medium**].
(B Gain 192, R-Cut/G-Cut/B-Cut: 65/62/66 Fix.)
Adjust the High Light using G Gain/B Gain - [**Warm**].
(B Gain 192, R-Cut/G-Cut/B-Cut: 62/62/65 Fix.)
- (4) Adjust using Volume +/- KEY.

Value of bright : High Level -> 216gray

[Cool]

X; 0.278±0.0015 Y; 0.279±0.0015
Color temperature: 11000°K ±1000°K
dUV: -3dUV

[Medium]

X; 0.287±0.0015 Y; 0.289±0.0015
Color temperature: 9300°K±1000°K
dUV: -3dUV

[Warm]

X; 0.314±0.0015 Y; 0.318±0.0015
Color temperature: 6500°K±1000°K
dUV: -3dUV

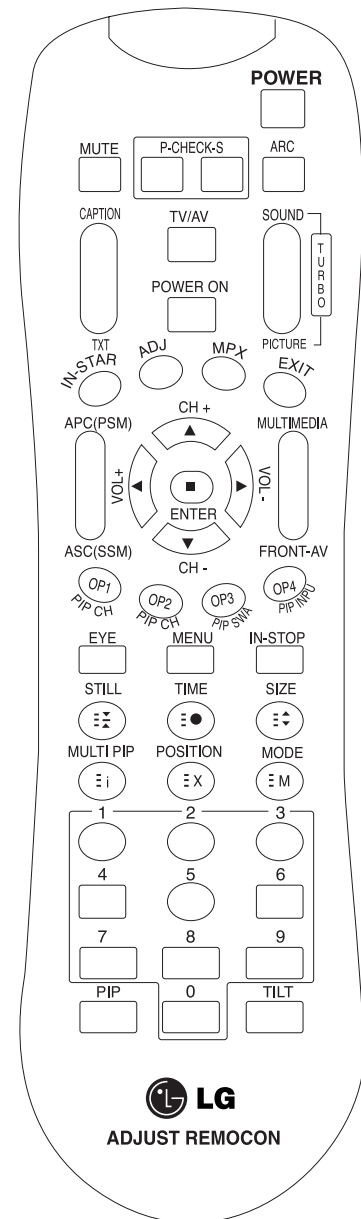
- (5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

10. Shipping Conditions

No	Item	Value	Remark	
1	Power	Off		
2	CH Memory	Analog	C0,C5,C6,S11,S28,C27,C44,C60	
		Digital	C43	
3	Pictur	PSM	Dynamic	
		Contrast	100	
		Brightness	55	
		Color	60	
		Sharpness	60	
		Tint	(Not available)	
		Color temperature	COOL	
	XD	Auto , Manual		
4	Audio	SSM	Standard	
		AVL	Off	
		Balance	0	
		Treble	50	
		Bass	50	
		Front surround	Off	
		TV speaker	On	
5	Time	Auto clock	On	Manual Clock Enable
		Off timer	Off	
		On timer	Off	
		Sleep timer	Off	
		Auto sleep	Off	
6	Special	Main input	Digital	
		Sub input	Analogue	
		Sub title	Off	
		Child lock	Off	
		ARC	16:9	
		Auto Demo	Auto Demo	
7	LOCK	Lock system	Off/On	
		Set password	New/Confirm	
		Block programme	▶ / Ⓞ	
		Parental guidance	G/PG/M/MA/AV/R	
		Aux. block	AV1 / AV2 Component1 / Component2 /RGB/ HDMI/DVI	
8	RGB Initial	DTV		
9	PIP Position	Right Lower		
10	Volume	30		
11	Favorite	No Program set		

SVC REMOCON

NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen → W/B adjustment → Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMEDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH±	To move channel up/down or to select a function displayed on the screen.	
21	VOL±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	



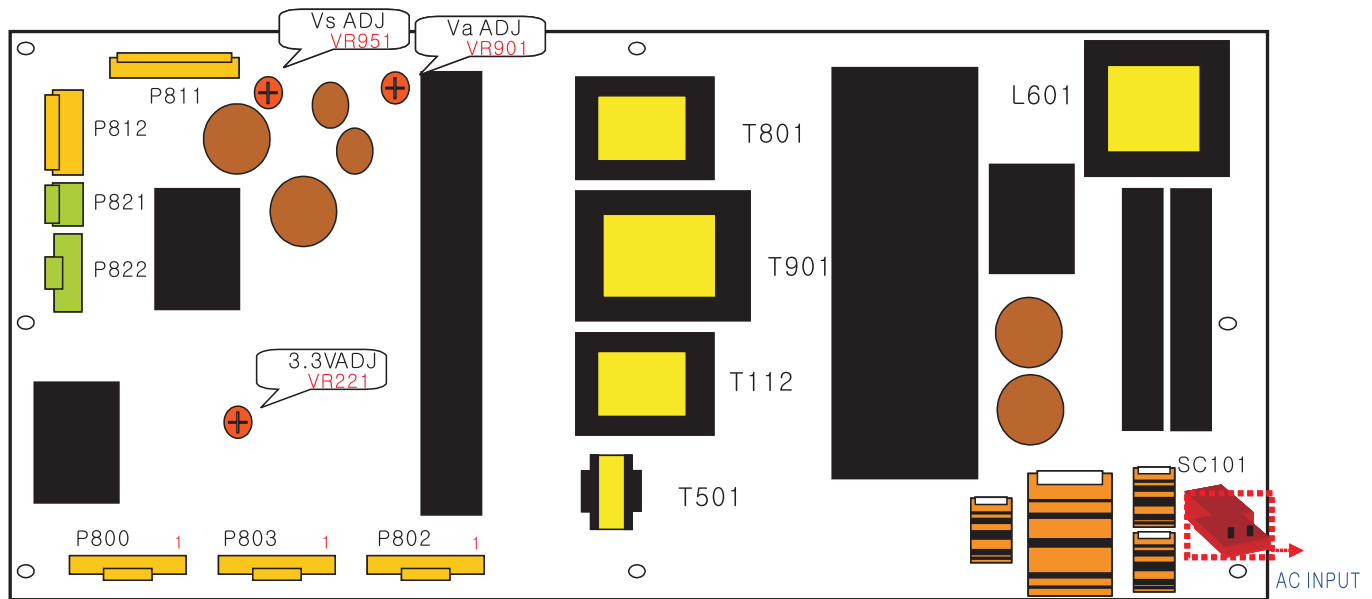
TROUBLESHOOTING

1. Power Board

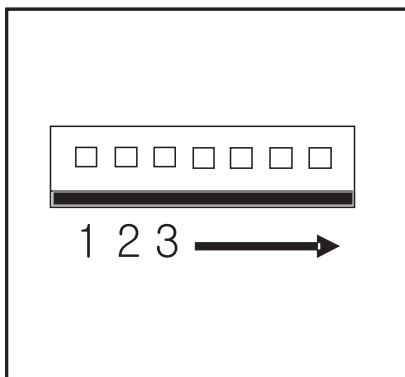
1-1. The whole flowchart which it follows in voltage output state



1-2. 42" Power Board Structure



NO	AC INLET	ANALOG & DIGITAL BOARD			PDP MODULE		READY ¹⁾	
	SC1	P800	P803	P802	P811	P812	P821	P822
1	AC	AC Det	19V	3.4V	Vs	5V	5V	GND
2	NC	RL-ON	19V	3.4V	Vs	GND	5V	GND
3	AC	STB 5V	GND	GND	NC	Va	GND	GND
4		GND	GND	GND	GND	GND	GND	GND
5		Vs-ON	6V	6V	GND	GND	GND	5V
6		5V Det	GND	6V	Va	GND	GND	5V
7		3.4VON	3.4V	GND	GND	NC		5V
8		STB 5V	GND	GND	5V	Vs		5V
9		GND	12V	12V		Vs		
10		NC	GND	12V				
11		6V		GND				
12		GND		GND				
13		3.4VON						



- T801: Vs Trans
- T901: Va Trans
- T112: Low Voltage Trans
- T501: ST-BY Trans
- T601: PFC Inductor

2. In case of occurring strange screen into specific mode

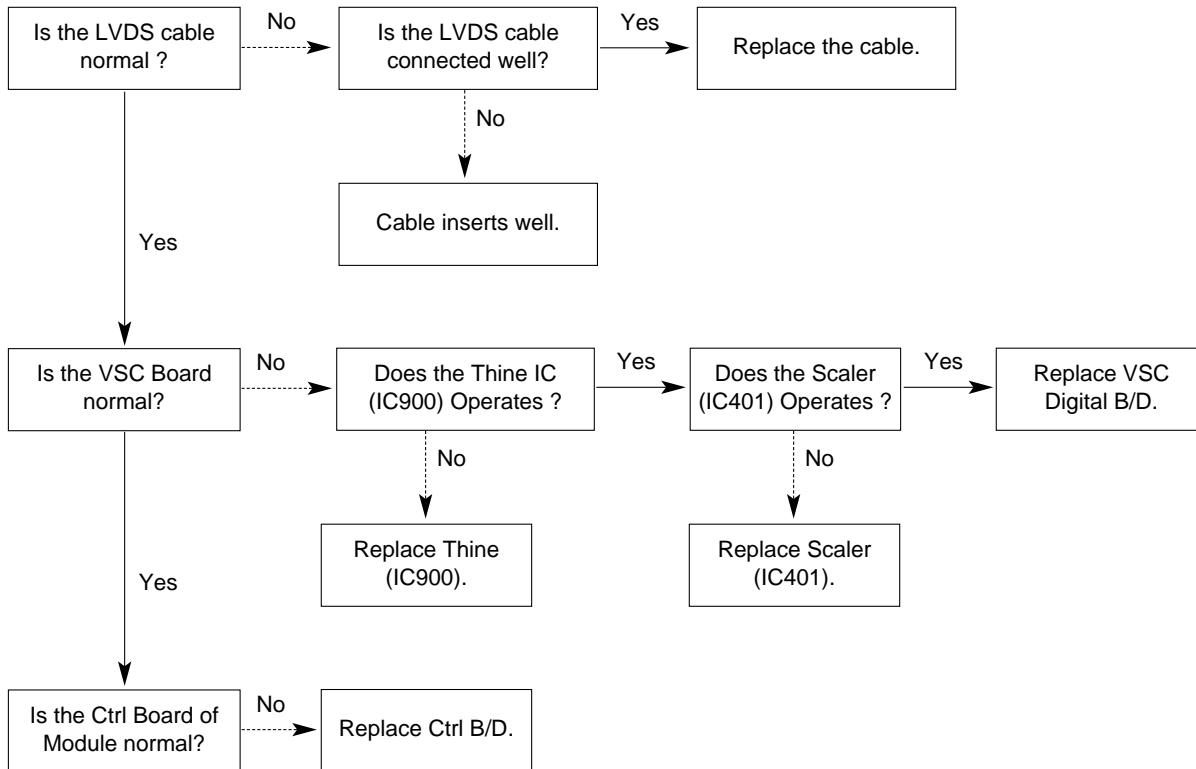
2-1. In case the OSD does not displayed

(1) Symptom

- 1) LED is white.
- 2) Some discharge on Panel becomes accomplished continuously.



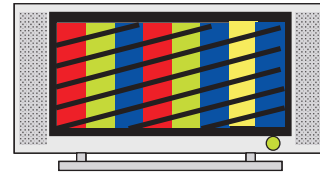
(2) Check follow



2-2. In case of does't display the screen into specific mode

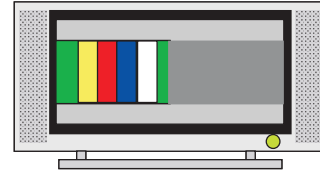
(1) Symptom

- The screen does not become the display from specific input mode.
(RF, AV, Component, RGB, DVI)

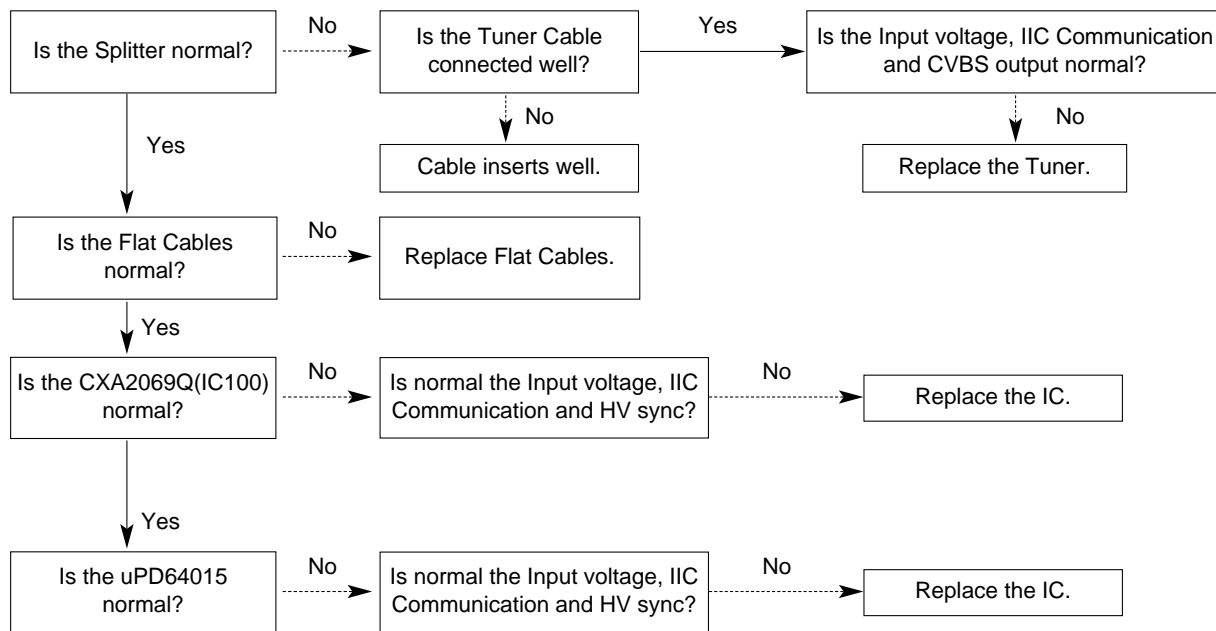


(2) Check following

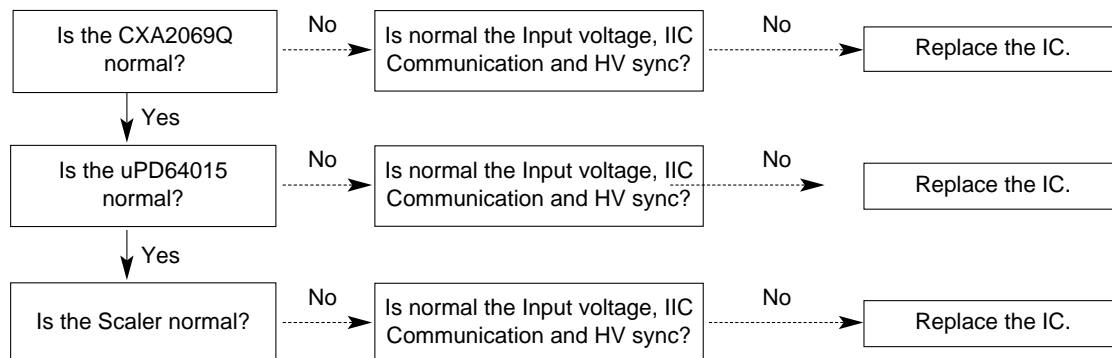
- Check the all input mode should become normality display.
- Check the Video(Main)/Data(Sub), Video(Main)/Video(Sub) should become normality display from the PIP mode or DW mode.(Re-Check using Swap function)
Check the NEC64015(IC701) if the main picture is abnormal, and
Check the NEC64015(IC801) If the sub picture is abnormal.



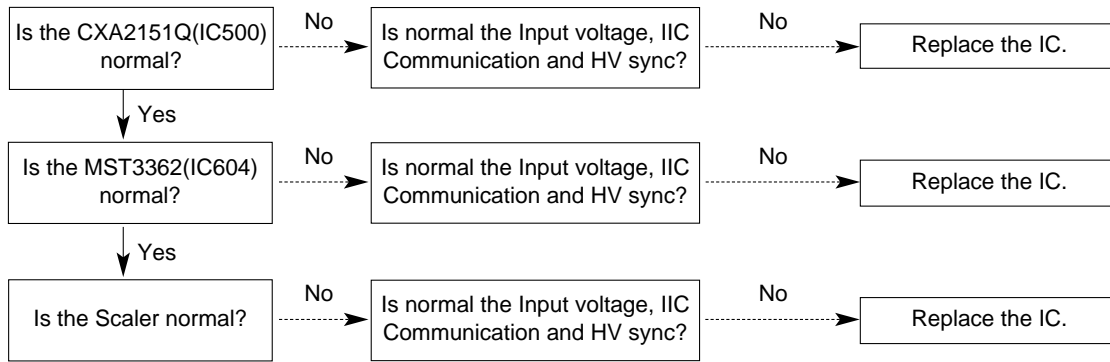
(3) When Analog TV mode is abnormal



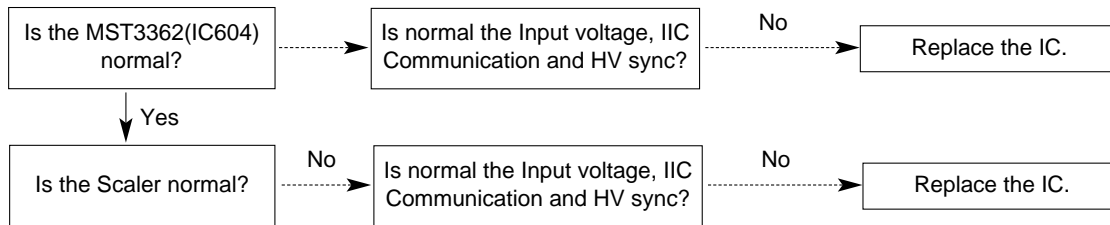
(4) When AV mode is abnormal



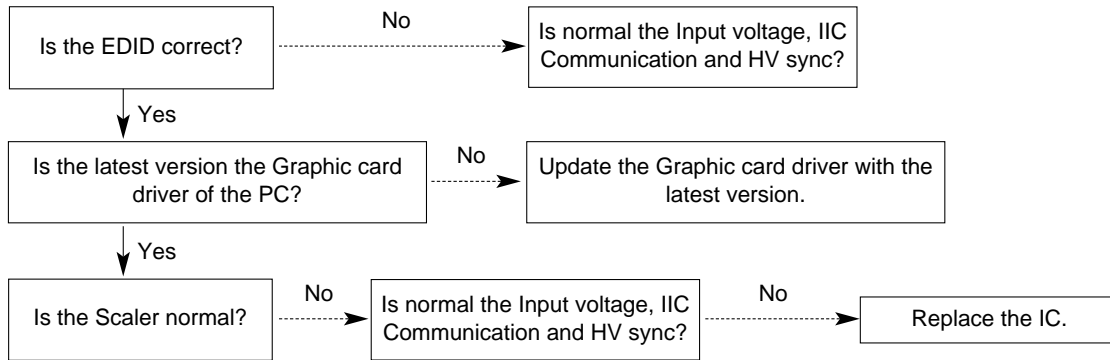
(5) When Component or RGB-DTV/ PC mode is abnormal



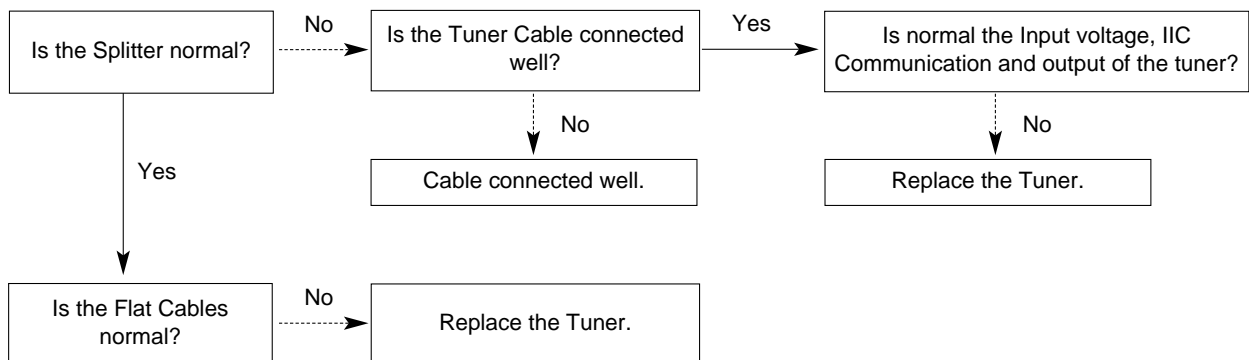
(6) When HDMI/DVI mode is abnormal



(7) When DVI-PC mode is abnormal



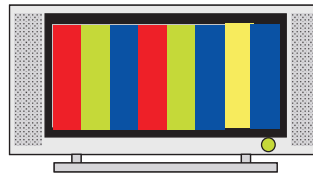
(8) When Digital TV mode is abnormal



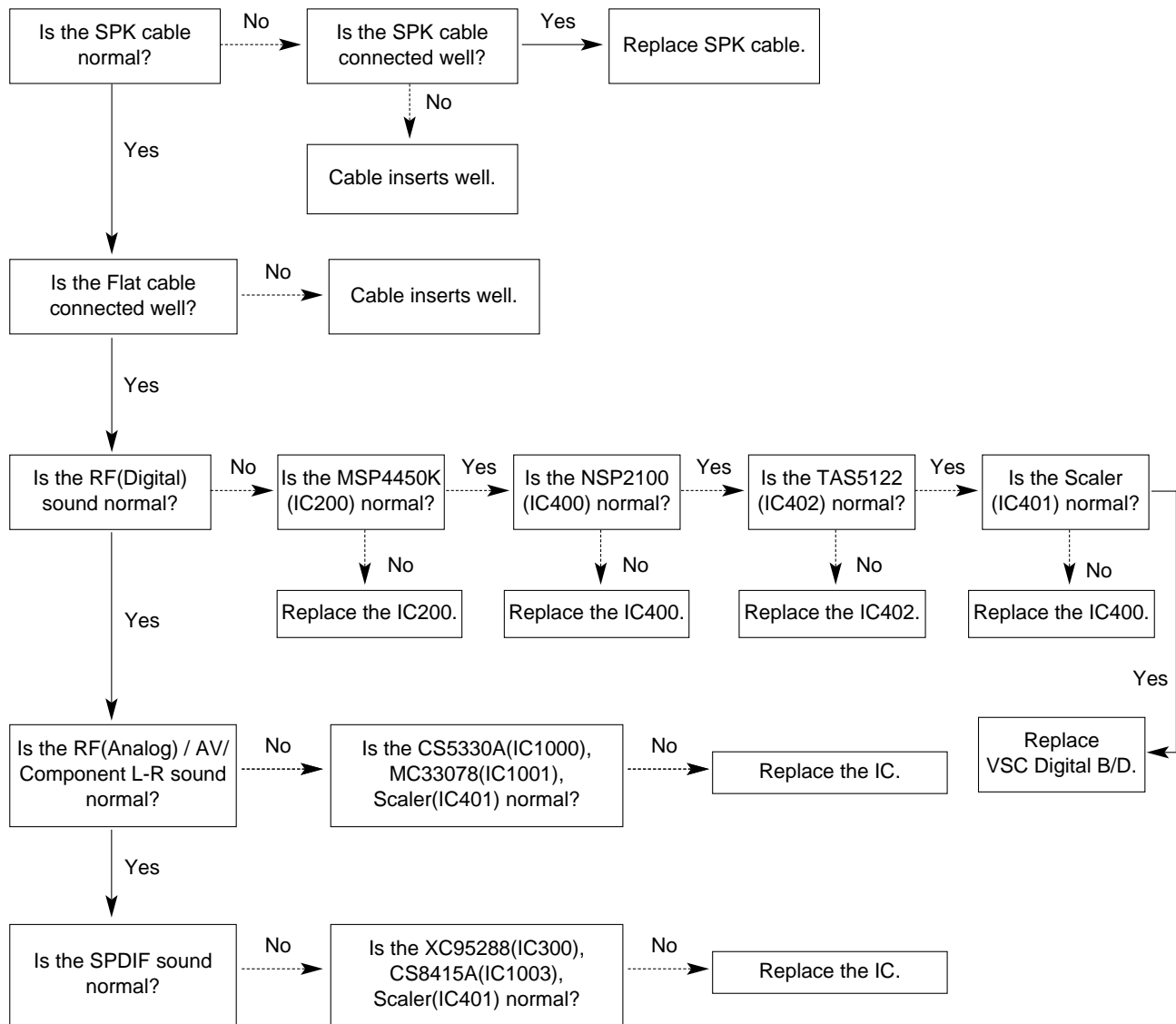
3. When sound is abnormal

(1) Symptom

- 1) LED is green.
- 2) Screen display but sound is not output.

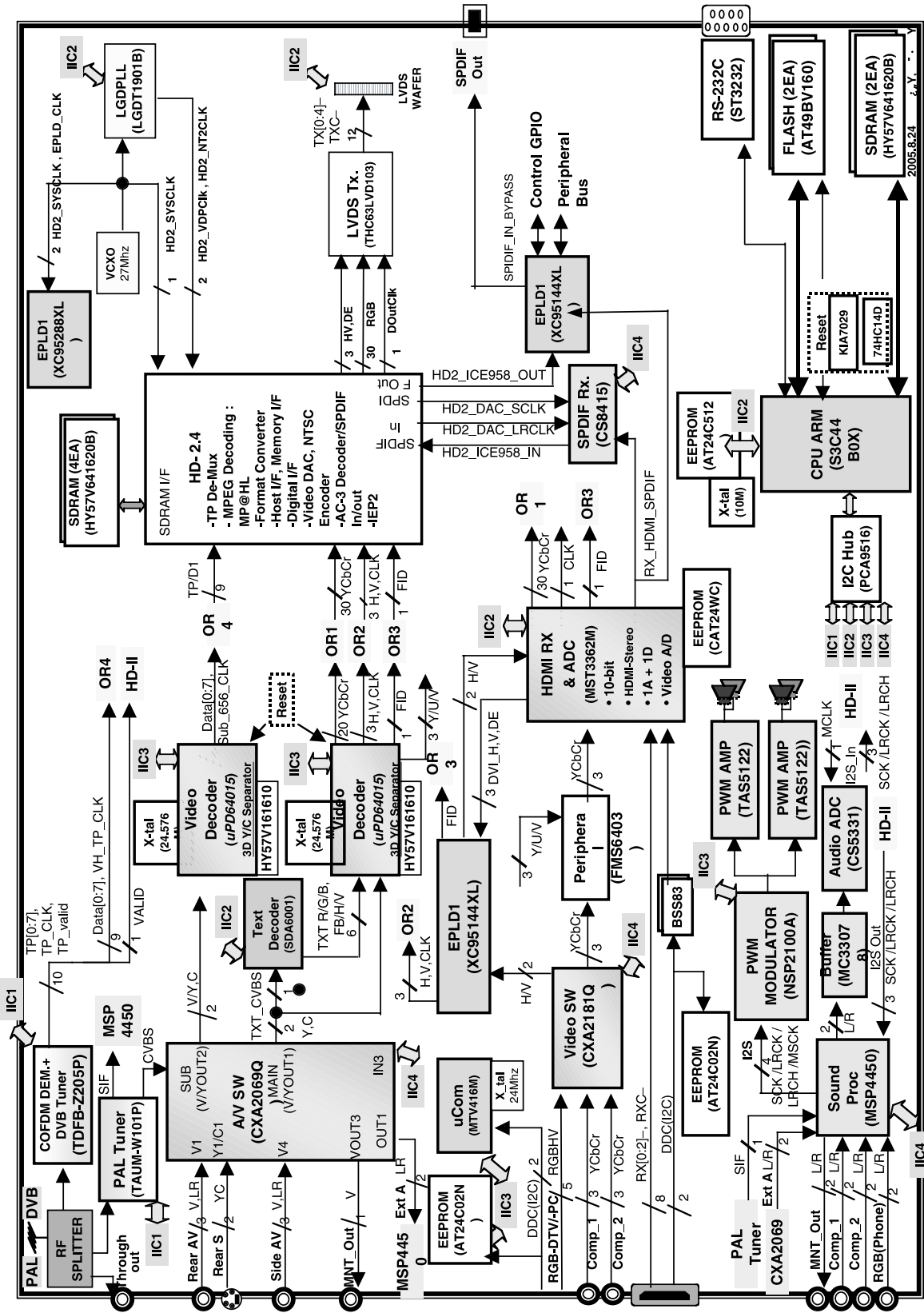


(2) Check following

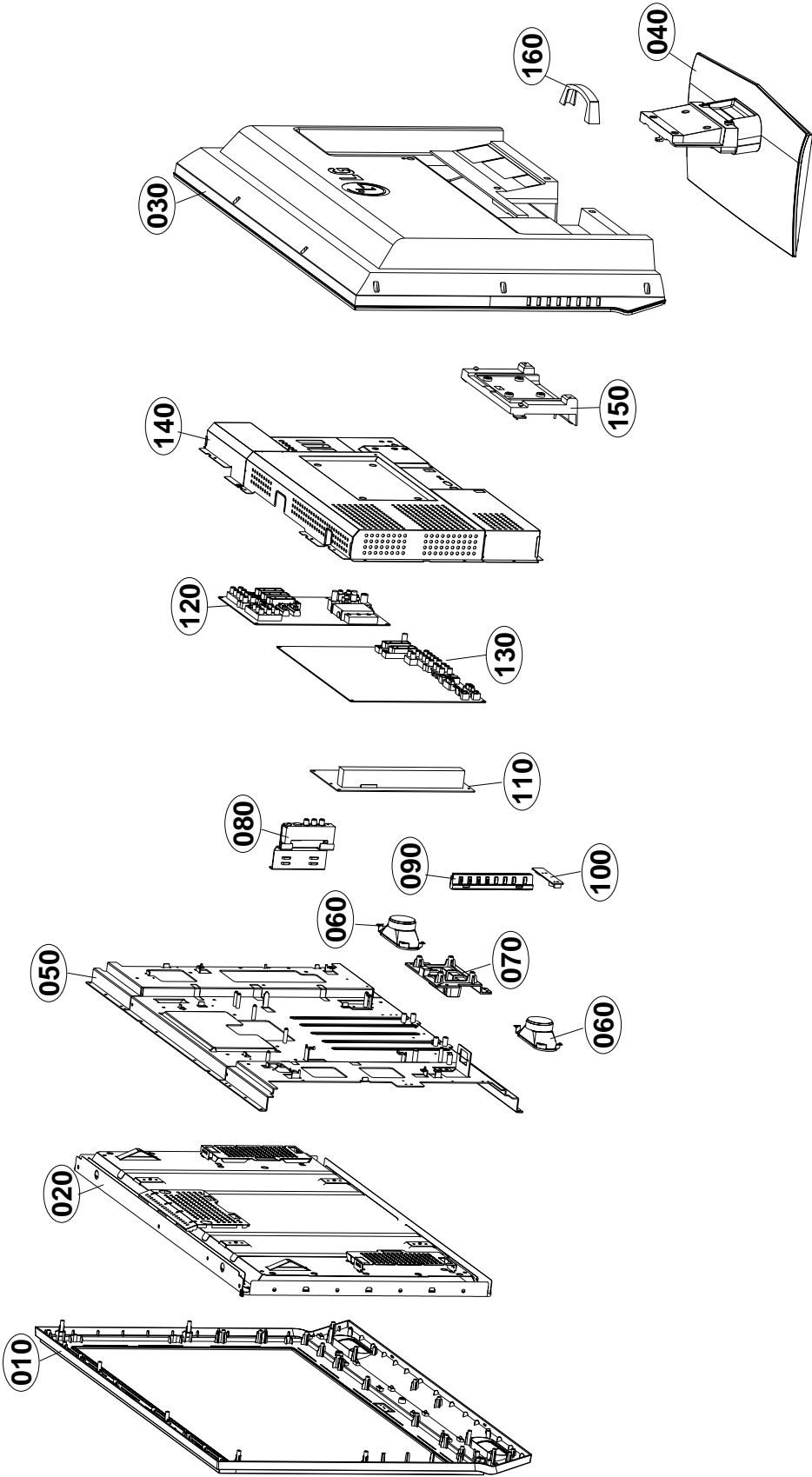


BLOCK DIAGRAM







1. DVB-T PC1 Block Diagram



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	 ACQ30159905	Cover Assembly, 32LC2D-AA LB61A 32" DVB AUSTRALIA FRONT MODULE
020	 EAJ30768801	LCD Module, LC320W01-SL14 WXGA 32.0INCH 1366X768 500CD COLOR 72% 16/9 800 NEC Lamp
	or 6304FLP359A	LCD,Panel-TFT, LC320W01-SL11 32INCH 1366X768 500CD COLOR 72% -
030	 3809900159R	Cover Assembly, 32LC2D-AA LB61A 32" FOR AUSTRALIA MARKET
040	 3043900026B	Base Assembly, 32LC2D-ND NONE WITH PRINTING
050	49519S0031E	Plate Assembly, FRAME IDTV 32LC2D-EC LPL
060	EAB30827201	Speaker,Fullrange, C112K01K1450. FERRITE 15W 80HM 83.5DB 170HZ 116 X 42 X 38.5 LUG ESTEC AMERICA CORPORATION
070	49509K0195A	Plate, CASTING AL FRAME SUPPORT 32LC2
080	EBR30742201	PCB Assembly,Sub, SUB T.T LB61A 32LC2D-AA AAULLHX SIDE AV TOTAL_DMS apply
090	EBR31378301	PCB Assembly,Sub, SUB T.T LB61A 32LC2D-AA AAULLHX KEY FRONT TOTAL
100	EBR31311501	PCB Assembly,Sub, SUB T.T LB61A 32LC2D-AA AAULLHX IR FOR DMS
110	 6709900016C	SMPS,AC/DC, LGLP2637HEP 90.0VTO264.0V 215W 47TO63HZ UL/CSA/SEMKO YY / AT / H&E
	or 6709900016A	Power Supply Assembly, FREE H3/E2 LCD MODEL LCD LG ELECTRONICS LB LC
120	68719STA20A	PCB Assembly,Sub, SUB T.T LB61A 42LC2D-AA ALAULLX 42LC2D-AA ANALOG TOTAL
130	 EBU30842501	Main Total Assembly, 32LC2D-AA BRAND LB61A
140	49519K0139K	Plate Assembly, REAR 32LB1D-AA FOR SET
150	35509K0199A	Cover, MOLD HIPS 32LC2 REAR STAND SUPPORTER
160	35509K0197A	Cover, MOLD HIPS 32LC2 CABLE MANAGEMENT

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyester
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2006. 07. 02.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
MAIN BOARD				
CAPACITOR				
			C1001	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C1002	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C1005	OCE107WF6DC MVK6.3TP16VC100M 100uF 20%
			C1009	OCE107WF6DC MVK6.3TP16VC100M 100uF 20%
			C1011	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C1012	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C1015	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1017	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1020	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1103	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1113	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1115	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1119	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1126	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C113	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1134	OCE227SF6DC MVG6.3TP16VC220M 220uF 20%
			C1138	OCE227SF6DC MVG6.3TP16VC220M 220uF 20%
			C1142	OCE227SF6DC MVG6.3TP16VC220M 220uF 20%
			C1144	OCE227SF6DC MVG6.3TP16VC220M 220uF 20%
			C1147	OCE475WK6DC MVK5.0TP50VC4.7M 4.7uF 20%
			C1148	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C121	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1211	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1212	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1213	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1214	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1215	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1221	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1224	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1226	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1227	OCE106SK6DC VMV106M050S0ANC010 10uF 20%
			C1228	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1232	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1233	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1238	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1240	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C1242	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1245	OCE476WH6DC MVK8.0TP25VC47M 47uF 20% 25
			C1247	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C125	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C128	OCE476WH6DC MVK8.0TP25VC47M 47uF 20% 25
			C1303	OCE105WK6DC MVK4.0TP50VC1M 1uF 20% 50V
			C1306	OCE477WF6DC MVK10TP16VC470M 470uF 20% 1
			C1307	OCE477WF6DC MVK10TP16VC470M 470uF 20% 1
			C1308	OCE477WF6DC MVK10TP16VC470M 470uF 20% 1
			C1310	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1312	OCE477WF6DC MVK10TP16VC470M 470uF 20% 1
			C1313	OCE477WF6DC MVK10TP16VC470M 470uF 20% 1
			C1314	OCE477WF6DC MVK10TP16VC470M 470uF 20% 1
			C1315	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C1321	OCE477WF6DC MVK10TP16VC470M 470uF 20% 1
			C1331	OCE477WF6DC MVK10TP16VC470M 470uF 20% 1

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
			C1500	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1501	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1502	OCE105WK6DC MVK4.0TP50VC1M 1uF 20% 50V
			C1505	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C1511	OCE107WF6DC MVK6.3TP16VC100M 100uF 20%
			C1514	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C1517	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C1518	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C1519	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C218	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C219	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C300	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C325	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C331	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C334	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C400	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C401	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C404	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C407	OCE476WH6DC MVK8.0TP25VC47M 47uF 20% 25
			C467	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C483	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C484	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C487	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C490	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C491	OCE476WH6DC MVK8.0TP25VC47M 47uF 20% 25
			C510	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C525	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C528	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C534	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C541	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C547	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C601	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C611	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C613	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C615	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C624	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C631	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C650	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C654	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C655	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C658	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C659	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C664	OCE226WJ6DC MVK6.3TP35VC22M 22uF 20% 35
			C667	OCE476WH6DC MVK8.0TP25VC47M 47uF 20% 25
			C7002	OCE105WK6DC MVK4.0TP50VC1M 1uF 20% 50V
			C703	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C705	OCE106WFKDC MVK4.0TP16VC10M 10uF 20% 16
			C731	OCE226WF6DC MVK5.0TP16VC22M 22uF 20% 16
			C761	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C771	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C775	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C779	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C783	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16
			C784	OCE476WF6DC MVK6.3TP16VC47M 47uF 20% 16

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C787	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C789	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C796	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C798	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C803	0CE226WJ6DC	MVK6.3TP35VC22M 22uF 20% 35
		C805	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C831	0CE226WJ6DC	MVK6.3TP35VC22M 22uF 20% 35
		C874	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C875	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C876	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C879	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C880	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C884	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C885	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C887	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C900	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C903	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C905	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C908	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C910	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C916	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C919	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C100	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1000	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1006	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1008	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C101	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1013	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1019	0CK472CK56A	0603B472K500CT 4.7nF 10% 50
		C102	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1022	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1023	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C103	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C104	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C106	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1101	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1104	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1105	0CK333CK56A	C1608X7R1H333KT 33nF 10% 50
		C1109	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C111	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1111	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1112	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1114	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1116	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1117	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V
		C112	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1121	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V
		C1123	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1124	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1128	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C1132	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V
		C1135	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C114	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1140	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C1143	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C1145	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1146	0CC271CK41A	C1608C0G1H271JT 270pF 5% 50
		C1149	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C115	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C119	0CC271CK41A	C1608C0G1H271JT 270pF 5% 50
		C120	0CC821CK41A	0603N821J500LT 820pF 5% 50V
		C1203	0CC151CK41A	C1608C0G1H151JT 150pF 5% 50

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1216	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1217	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1218	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1219	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1220	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1222	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1223	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1225	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1229	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C123	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1230	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1231	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1234	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1235	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1236	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1239	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C124	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C1241	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1243	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1244	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1248	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C126	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C127	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1300	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1301	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1302	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1305	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1311	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1317	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1318	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1319	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1324	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1332	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1341	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C1344	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1345	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1346	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1347	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1348	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1349	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1504	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1509	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1510	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1513	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1515	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1516	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1520	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1521	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1522	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1524	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1525	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1526	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1527	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1535	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1536	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1540	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1541	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C200	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C201	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C202	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C203	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C207	0CK104CK56A	0603B104K500CT 100nF 10% 50

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C822	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C823	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C826	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C827	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C828	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C829	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C830	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C832	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C833	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C834	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C835	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C836	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C837	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C838	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C839	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C840	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C841	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C842	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C843	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C844	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C845	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C846	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C847	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C848	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C849	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C850	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C851	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C852	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C853	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C854	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C855	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C856	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C857	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C858	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C859	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C860	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C863	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V
		C864	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C865	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C866	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C867	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C868	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V
		C869	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V
		C870	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C871	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C872	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C873	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C877	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C878	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C881	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C882	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C883	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C886	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C888	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C901	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C902	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C904	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C906	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C907	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C909	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C911	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C912	0CK104CK56A	0603B104K500CT 100nF 10% 50

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C913	0CK102CK56A	0603B102K500CT 1nF 10% 50V
		C914	0CK102CK56A	0603B102K500CT 1nF 10% 50V
		C915	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C917	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C918	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C920	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1003	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V
		C1004	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1007	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1010	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V
		C1014	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1016	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1018	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1021	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1024	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1025	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C105	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C107	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C108	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C109	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C110	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1102	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C1107	0CC271CK41A	C1608C0G1H271JT 270pF 5% 50
		C1108	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C1131	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C116	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C117	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C118	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C1208	0CC330CK41A	C1608C0G1H330JT 33pF 5% 50V
		C1209	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C1210	0CC330CK41A	C1608C0G1H330JT 33pF 5% 50V
		C1237	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1350	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1353	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1354	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C1503	0CC221CK41A	C1608C0G1H221JT 22pF 5% 50
		C1506	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C1507	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C1543	0CK471CK56A	C1608X7R1H471KT 470pF 10% 5
		C204	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C205	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C206	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C320	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C321	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C326	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C327	0CK334CF56A	C1608X7R1C334KT 330nF 10% 1
		C328	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C333	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50
		C336	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50
		C342	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C478	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C479	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C480	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C481	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C482	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C489	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C492	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C504	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C508	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C509	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C511	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C517	0CK104CK56A	0603B104K500CT 100nF 10% 50

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C518	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C522	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C526	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C532	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C538	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C539	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C540	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C545	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C546	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C600	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C603	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C604	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C605	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C606	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C616	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C633	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C634	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C640	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C641	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C642	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C643	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C645	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C646	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C647	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C648	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C649	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C7000	0CC821CK41A	0603N821J500LT 820pF 5% 50V
		C7003	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C7005	0CC151CK41A	C1608C0G1H151JT 150pF 5% 50
		C707	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C708	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C724	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C727	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C730	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C760	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V
		C762	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V
		C777	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C778	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C799	0CK563CK56A	C1608X7R1H563KT 56nF 10% 50
		C807	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C808	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C813	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C824	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C825	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C861	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V
		C862	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V
		C923	0CK104CK56A	0603B104K500CT 100nF 10% 50
DIODES				
		D601	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D1305	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D1500	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D300	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D301	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D700	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D1101	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4N
		D1102	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4N
		D1202	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4N
		D1200	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4N
		D1201	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4N
		D600	0DRSE00048A	RLCAMP0504M 1.2V 6V 25V 12A

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D602	0DRSE00048A	RLCAMP0504M 1.2V 6V 25V 12A
		ZD300	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W
		ZD301	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W
IC				
		IC1000	0ICB533100A	CS5331A-KSR 4.75TO5.25V 48K
		IC604	0IPRP00697A	MST3362M-LF-110 2.5 TO 3.3V
		IC302	0IMCRPH026B	PA9516APW 0.5TO7.0 - - 0W 3
		IC304	0IPH741400E	74HC14D 2TO6V 0.002mA SCHMI
		IC101	0IMCRAL021A	AT24C512W-10SU-2.7 512KBIT
		IC1202	0IMCRAL006A	AT24C16AN-10SU-2.7 16KBIT 2
		IC1501	0IMCRAL006A	AT24C16AN-10SU-2.7 16KBIT 2
		IC600	0IMMR00018A	24LC02BT-/SNG 2KBIT 256X8B
		IC603	0IMMRCS012B	CAT24WC08W-T(MST3000) 8KBIT
		IC601	0IPRFA016B	FMS6407MTF20X-NL 4.75VTO5.2
		IC1002	0IPMGKE032A	KIA78R09F 10TO25V 9V 8W DPA
		IC102	0IPRPM001A	MIC39100 2.3TO26V 0 0W SOT2
		IC1102	0IPMG00049A	"AZ1117H-1.8TRE1(EH13A),LF 3"
		IC1103	0IPMGA0010A	"AZ1117H-3.3 4.75TO10V 3.3V
		IC1205	0IPMG00107A	AZ1117H-2.5TR/E1 15V 2.5V -
		IC1503	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC400	0IPMG00049A	"AZ1117H-1.8TRE1(EH13A),LF 3"
		IC402	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC403	0IPMG00049A	"AZ1117H-1.8TRE1(EH13A),LF 3"
		IC404	0IPMG00049A	"AZ1117H-1.8TRE1(EH13A),LF 3"
		IC602	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC605	0IPMG00107A	AZ1117H-2.5TR/E1 15V 2.5V -
		IC703	0IPMG00028A	AZ1117H-1.5TRE1 3TO10V 1.5V
		IC705	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC803	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC804	0IPMG00028A	AZ1117H-1.5TRE1 3TO10V 1.5V
		IC901	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC1502	0IMCR02227A	MTV416GMF 3TO3.6V 24mA 25MH
		IC100	0IMCRSS016A	S3C44BOX01-EDRO 3TO3.6V 60M
		IC401	0ICTMLG009E	LGDT1102F HD2.4 0.5TO4.6 0A
		IC1204	0IMMRMR010F	MX29LV160CTTC-70G 16MBIT 2M
		IC200	0IMMR00089A	M28W160CB70N6 16MBIT 1MX16B
		IC201	0IMMR00089A	M28W160CB70N6 16MBIT 1MX16B
		IC1001	0ISTL00029A	MC33078DR2G +-5TO+-18V 2mV
		IC300	0IMCRXL004A	XC95288XL-10TQG144C 3TO3.6V
		IC505	0ICTMLG013B	"LGDT1901B 3.6VTO3.0V,0.0VTO"
		IC1003	0ICB841500B	"CS8415A-CZR 4.5TO5.5,2.85TO"
		IC1203	0IMMR00230A	M12L64164A-5TG 64MBIT 16BIT
		IC202	0IMMR00230A	M12L64164A-5TG 64MBIT 16BIT
		IC203	0IMMR00230A	M12L64164A-5TG 64MBIT 16BIT
		IC500	0IMMR00230A	M12L64164A-5TG 64MBIT 16BIT
		IC501	0IMMR00230A	M12L64164A-5TG 64MBIT 16BIT
		IC502	0IMMR00230A	M12L64164A-5TG 64MBIT 16BIT
		IC503	0IMMR00230A	M12L64164A-5TG 64MBIT 16BIT
		IC704	0IMMR00229A	M12L16161A-5TG 16MBIT 16BIT
		IC802	0IMMR00229A	M12L16161A-5TG 16MBIT 16BIT
		IC1200	0IMCRMN023A	SDA6001 2.5VTO3.3V - - - MQ
		IC303	0IMCRSG010A	ST3232CDR 3.0TO5.5 - SOP R/
		IC900	0IMCRTH002A	THC63LVD103 3.0TO3.6 1W TQF
		IC701	0IPRPNE011B	"UPD64015AGM-UEU-A,LF 3.0VTO"
		IC801	0IPRPNE011B	"UPD64015AGM-UEU-A,LF 3.0VTO"
		IC706	0ISA721700C	LA7217M 4.5VTO5.5V 16.1KHZ
		IC1201	0IKE702700D	KIA7027AF -0.3TO15V 2.7V 50
		IC1500	0IKE702900G	KIA7029AF -0.3TO15V 2.9V 50
		IC301	0IKE702900G	KIA7029AF -0.3TO15V 2.9V 50
		IC1101	0IMCRSH001A	PQ05DZ1U 6TO16V 5V 8W D2PAK
		IC1303	0IMCRSH001A	PQ05DZ1U 6TO16V 5V 8W D2PAK

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
COIL & CORE & INDUCTOR				
		L1301	6140VB0004B	LN-15A1 26uH - - 12X9MM LEA
		L1302	6140VB0004B	LN-15A1 26uH - - 12X9MM LEA
		L1303	6140VB0004B	LN-15A1 26uH - - 12X9MM LEA
		L100	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L101	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L1102	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L1103	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L1104	6200J000013	MLB-321611-0500P-N2 500OHM
		L1107	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L1108	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L1109	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L1110	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L1204	6210TCE001Z	HH-1M2012-600JT 60OHM 2X1.2
		L1300	6200J000013	MLB-321611-0500P-N2 500OHM
		L1307	6200J000013	MLB-321611-0500P-N2 500OHM
		L1500	6200J000013	MLB-321611-0500P-N2 500OHM
		L1501	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L1502	6200J000013	MLB-321611-0500P-N2 500OHM
		L1503	6200J000013	MLB-321611-0500P-N2 500OHM
		L200	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L201	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L400	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L401	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L402	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L403	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L501	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L602	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L604	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L605	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L609	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L701	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L702	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L703	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L704	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L705	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L706	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L707	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L708	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L801	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L802	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L803	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L804	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L805	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L806	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L807	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L808	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L907	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L909	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R1585	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R1586	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R1591	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R1594	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R1599	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R2309	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R2310	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R2311	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R2312	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R2313	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R2316	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R2501	0LCML00003B	MLB-201209-0120P-N2 120OHM
		AL600	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		AL601	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AL602	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AL603	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AL604	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AL605	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		L1200	6200J000013	MLB-321611-0500P-N2 500OHM
		L1201	6200J000013	MLB-321611-0500P-N2 500OHM
		L1202	6200J000013	MLB-321611-0500P-N2 500OHM
		L1203	6200J000013	MLB-321611-0500P-N2 500OHM
		L300	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L301	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L404	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L503	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L504	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L600	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L601	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L603	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L606	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L607	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L608	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L700	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L800	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L900	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L908	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L910	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R2314	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R2315	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L1000	0LCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L1002	0LCML00020C	MLI-201212-100K 10UH 10% -
		L1105	0LCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L1111	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L709	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		L1001	0LCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L1003	0LCML00020C	MLI-201212-100K 10UH 10% -
FET & TRANSISTOR				
		Q601	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q603	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		Q604	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V
		IC902	0TF492509AA	SI4925DY P-CHANNEL -30V +-2
		Q1101	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1102	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q1103	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q1104	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1105	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q1200	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1300	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1301	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1302	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1303	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1304	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1305	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q200	0TR102009AJ	KRA102S PNP -30V - -50V -0.
		Q300	0TR102009AJ	KRC102S NPN 30V 0V 50V 100M
		Q100	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1100	0TRKE80038A	KTC3552T NPN 6V 80V 50V 3A
		Q1107	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1503	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q600	0TR102009AJ	KRC102S NPN 30V 0V 50V 100M
		Q602	0TR102009AJ	KRC102S NPN 30V 0V 50V 100M
		Q605	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50

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		Q700	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q701	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q705	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q706	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q800	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q801	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q900	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
RESISTORS				
		AR1140	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR1143	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR1144	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR175	0RJ4701C687	RCA86TRJ4K70 4.7KOHM 5% 1/1
		AR176	0RJ4701C687	RCA86TRJ4K70 4.7KOHM 5% 1/1
		AR400	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR401	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR402	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR403	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR404	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR405	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR500	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR501	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR502	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR503	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR504	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR505	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR506	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR507	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR510	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR511	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR512	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR513	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR514	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR515	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR516	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR517	0RJ0332C687	RCA86TRJ33R0 330HM 5% 1/16W
		AR725	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR726	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR738	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR739	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR766	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16
		AR767	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16
		AR768	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16
		AR823	0RJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W
		AR824	0RJ0512C687	RCA86TRJ51R0 51OHM 5% 1/16W
		AR844	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16
		AR845	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16
		AR846	0RJ1000C687	RCA86TRJ100R 100OHM 5% 1/16
		AR903	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR904	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR911	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR912	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR929	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR930	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		AR934	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W
		R1	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R10	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1009	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1011	0RJ4702D677	MCR03EZPJ473 4.7KOHM 5% 1/10
		R1016	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1029	0RJ4702D677	MCR03EZPJ473 4.7KOHM 5% 1/10

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		R1030	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R11	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1102	0RJ8203D677	MCR03EZPJ824 820KOHM 5% 1/1
		R1103	0RJ1302D677	MCR03EZPJ133 13KOHM 5% 1/10
		R1104	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1111	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1112	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R1113	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1114	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1118	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1119	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1120	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10
		R1123	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10
		R1124	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1125	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R1136	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R1137	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1138	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R1139	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R1141	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1148	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R1155	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1156	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1157	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1158	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1159	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1163	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1164	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1165	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1166	0RJ0822D677	MCR03EZPJ820 820HM 5% 1/10W
		R1167	0RJ2200D677	MCR03EZPJ220 220OHM 5% 1/10
		R1172	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1227	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1229	0RJ0752D677	MCR03EZPJ750 750HM 5% 1/10W
		R1238	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R1240	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R1245	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W
		R1248	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1249	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R1250	0RJ7501D677	MCR03EZPJ752 7.5KOHM 5% 1/1
		R1251	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10
		R1307	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1385	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1386	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1387	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1388	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1389	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1390	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1391	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R1392	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1394	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1395	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1396	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1397	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R14	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R140	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R141	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R142	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R143	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R144	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R145	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R149	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W

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		R15	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R150	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1510	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R1512	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1513	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1514	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1515	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R152	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1534	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1536	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1537	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R154	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1550	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1552	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1554	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1555	0RJ8201D677	MCR03EZPJ822 8.2KOHM 5% 1/1
		R1556	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1558	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1559	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1560	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1561	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1562	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1563	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1574	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1576	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1582	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R165	0RJ3901D677	MCR03EZPJ392 3.9KOHM 5% 1/1
		R166	0RJ3901D677	MCR03EZPJ392 3.9KOHM 5% 1/1
		R170	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R177	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R178	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R179	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R181	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R182	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R183	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R185	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R196	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R200	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R202	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R205	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R207	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R209	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R212	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R216	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R2307	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3007	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3008	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3057	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3097	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3104	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3105	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3108	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3134	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3161	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3162	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3163	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3164	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3172	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R400	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R401	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R402	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W

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		R403	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R404	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R407	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R419	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R421	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R438	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R439	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R440	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R441	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R443	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R445	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R446	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R447	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R492	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R495	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R532	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R533	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6017	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6021	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R6022	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R6023	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R6024	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R6034	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R6036	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6043	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6053	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R6055	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R6056	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R6057	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6058	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6068	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6070	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6083	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R6084	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R6085	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R6090	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10
		R6115	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R7	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R714	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R715	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R716	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R717	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R718	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R719	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R720	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R721	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R722	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R723	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R724	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R729	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R730	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R732	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R733	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R735	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R740	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R741	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R742	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R743	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R744	0RJ6200D677	MCR03EZPJ621 620OHM 5% 1/10
		R748	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10
		R749	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R750	0RJ5101D677	MCR03EZPJ512 5.1KOHM 5% 1/1
		R751	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R753	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10
		R761	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R770	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R772	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R792	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R801	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R803	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R812	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R813	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R814	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R815	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R816	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R817	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R819	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R820	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R821	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R825	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R827	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R828	0RJ6200D677	MCR03EZPJ621 620OHM 5% 1/10
		R829	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R832	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10
		R833	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10
		R834	0RJ5101D677	MCR03EZPJ512 5.1KOHM 5% 1/1
		R835	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R836	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10
		R842	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R848	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R850	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R901	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R908	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R909	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R910	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R915	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R932	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R935	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R936	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R955	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1001	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10
		R1002	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1003	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R1004	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10
		R1005	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1006	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1007	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1008	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R101	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1010	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1012	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1013	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1014	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1015	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1017	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1018	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R1019	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10
		R102	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1020	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10
		R1021	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1023	0RJ0222D677	MCR03EZPJ270 27OHM 5% 1/10W
		R1024	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1025	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1026	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/1
		R1027	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1028	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R103	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1031	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1032	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1033	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R104	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R105	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R106	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R107	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R108	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R109	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R110	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1100	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1101	0RJ6200D677	MCR03EZPJ621 620OHM 5% 1/10
		R1105	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1106	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1107	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R112	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R113	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R114	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1146	0RJ8201D677	MCR03EZPJ822 8.2KOHM 5% 1/1
		R1147	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1149	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R115	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1150	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1151	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1152	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1153	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1154	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R116	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1160	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1161	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1162	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1169	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R117	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1170	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1171	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R118	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R119	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R12	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R120	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1200	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1205	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1207	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W
		R1214	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1215	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R122	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1220	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1222	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1223	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R1224	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R1225	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R1237	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1239	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R124	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1241	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1242	0RJ8201D677	MCR03EZPJ822 8.2KOHM 5% 1/1
		R1246	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R125	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W
		R126	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W

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		R127	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R128	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R129	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R13	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R130	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R131	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1311	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R1318	0RJ6201D677	MCR03EZPJ622 6.2KOHM 5% 1/1
		R1319	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R132	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1320	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R133	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R134	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1349	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R135	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1350	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1351	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1352	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1353	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1354	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1355	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1356	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1357	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1359	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1360	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1361	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1362	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1364	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1365	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1366	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1367	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1368	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R137	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1371	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1372	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1373	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1374	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1375	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1376	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1377	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1378	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R138	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R139	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1399	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R147	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R1500	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R1516	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R1517	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1519	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1521	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1522	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1523	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1524	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1525	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1526	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1527	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1528	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1529	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R153	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1533	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1535	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1538	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1539	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1540	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1541	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1542	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1544	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1546	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1548	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R155	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R156	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1564	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1565	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1566	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1567	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1568	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1569	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R157	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1570	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1571	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1572	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R1573	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R158	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R159	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R16	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R160	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R161	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R162	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R163	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R164	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R172	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R174	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R187	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R188	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R189	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R199	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R2	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R2301	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3000	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3001	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3002	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3003	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3004	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3005	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3006	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3009	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3010	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3011	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3012	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3013	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3015	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3016	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3020	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3023	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3025	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3029	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3031	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3034	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3036	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3040	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3042	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3044	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3047	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3048	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R3049	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3052	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3054	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3055	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3056	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3058	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3060	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3061	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3062	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3063	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3064	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3065	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3066	0RJ0432D677	MCR03EZPJ430 43OHM 5% 1/10W
		R3068	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3069	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R3071	0RJ1602D677	MCR03EZPJ163 16KOHM 5% 1/10
		R3072	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3073	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3074	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3075	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3076	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3077	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3078	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3079	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3080	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3081	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3082	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3083	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3084	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3085	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3086	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3087	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3088	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3089	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3090	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3091	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3092	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3094	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R3095	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R3096	0RJ6201D677	MCR03EZPJ622 6.2KOHM 5% 1/1
		R3098	0RJ6201D677	MCR03EZPJ622 6.2KOHM 5% 1/1
		R3099	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R3100	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R3101	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3102	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3103	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R3106	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3107	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3113	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3114	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R3116	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3117	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3118	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3119	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3120	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3121	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3126	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R3130	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R3131	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R3144	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R4	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R405	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R406	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R409	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R410	0RJ0272D677	MCR03EZPJ270 27OHM 5% 1/10W
		R411	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R412	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R413	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R414	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R415	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R416	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R417	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R418	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R422	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R423	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R424	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R425	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R426	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R427	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R428	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R429	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R430	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R431	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R432	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R433	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R434	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R435	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R436	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R448	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R450	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R491	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R493	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R494	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R496	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R498	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R499	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R5	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R508	0RJ0272D677	MCR03EZPJ270 27OHM 5% 1/10W
		R509	0RJ0272D677	MCR03EZPJ270 27OHM 5% 1/10W
		R518	0RJ0272D677	MCR03EZPJ270 27OHM 5% 1/10W
		R519	0RJ0272D677	MCR03EZPJ270 27OHM 5% 1/10W
		R522	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10
		R524	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R527	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R529	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R530	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R534	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R535	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6009	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6010	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6011	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6012	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6013	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6014	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6015	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6016	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R6018	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6019	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6020	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R6025	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R6030	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6031	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6032	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6040	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R6042	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R6046	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R6047	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R6048	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R6050	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R6051	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6052	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R6063	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R6065	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R6074	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R6075	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R6076	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R6077	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R6078	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6079	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W
		R6080	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R6081	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W
		R6082	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W
		R6086	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6087	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6088	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6092	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6093	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6096	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6097	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6098	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6099	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6100	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6101	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6102	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6105	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6106	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6107	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6108	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6109	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R6111	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R700	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R701	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R702	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R703	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R707	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10
		R708	0RJ9100D677	MCR03EZPJ911 910OHM 5% 1/10
		R709	0RJ9100D677	MCR03EZPJ911 910OHM 5% 1/10
		R710	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10
		R711	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10
		R712	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R713	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R727	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R728	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R736	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R737	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R745	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R746	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R747	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R769	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R771	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R773	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R774	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R777	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10
		R778	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10
		R784	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R785	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R786	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R787	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R788	0RJ3901D677	MCR03EZPJ392 3.9KOHM 5% 1/1
		R789	0RJ3303D677	MCR03EZPJ334 330KOHM 5% 1/1
		R790	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W
		R791	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R8	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R800	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R802	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R806	0RJ9100D677	MCR03EZPJ911 910OHM 5% 1/10
		R807	0RJ9100D677	MCR03EZPJ911 910OHM 5% 1/10
		R808	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10
		R809	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10
		R810	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R811	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R818	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R822	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R826	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R830	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R831	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R847	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R849	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R851	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R852	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R855	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10
		R856	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10
		R9	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R902	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R905	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R906	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R907	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R914	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R916	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R917	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R918	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R919	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R920	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R921	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R922	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R923	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R924	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R925	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R926	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R928	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R931	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R937	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R938	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R939	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R940	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R941	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R942	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R943	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R944	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R945	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R946	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R947	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R948	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R949	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R950	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R951	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R952	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R953	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R956	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R957	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R959	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R965	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R966	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R967	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R969	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R970	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R972	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R980	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
OTHERS				
		X100	6212AB2015E	HC-49/SM 10MHZ 30PPM 10MHZ
		X1200	6202TST001C	SX-1 6MHZ 30PPM 6MHZ 30PPM
		X1500	6202TST001E	SX-1 24MHZ 30PPM 24MHZ 30PP
		X600	6202TST001A	SX-1 14.31818MHZ 30PPM 14.3
		X700	6212AB2873A	HC-49/SM 24.576MHZ 30PPM 24
		X800	6212AB2873A	HC-49/SM 24.576MHZ 30PPM 24
		D1103	0DL233309AC	SAM2333 RED/Y-GREEN 2.7V 2.
		D1300	0DL233309AC	SAM2333 RED/Y-GREEN 2.7V 2.
		D1301	0DL233309AC	SAM2333 RED/Y-GREEN 2.7V 2.
		D1302	0DL233309AC	SAM2333 RED/Y-GREEN 2.7V 2.
		D1303	0DL233309AC	SAM2333 RED/Y-GREEN 2.7V 2.
		X500	6204B62705A	VCXO 27MHZ 100PPM 3.3V 0.00
		X701	166-E02F	CSBLA500KECZF09-B0 500KHZ 2
		SW300	6600VR1004A	SKHMPWE010 1C1P 12VDC 0.05A
		TU1100	6700MF0017C	TAFV-W303P PAL - - - 75OHM
		TU1101	6700DF0001A	TDFB-Z205P DVB-T(COFDM) 174
ANALOG BOARD				
CAPACITOR				
		C104	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16
		C105	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16
		C106	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C108	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20%
		C109	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C110	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20%
		C114	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C115	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20%
		C118	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20%
		C119	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20%
		C123	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C124	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C131	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20%
		C201	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16
		C210	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20%
		C212	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16
		C228	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20%
		C230	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C231	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C236	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C237	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C238	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20%
		C240	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C301	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C309	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20%
		C310	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20%
		C311	0CE107VH6DC	VG107M025S0ANG020 100uF 20
		C312	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C314	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20%

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		C321	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C329	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C333	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C334	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C343	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C344	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C345	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C355	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C356	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C359	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C362	0CE107VH6DC	VG107M025S0ANG020 100uF 20
		C364	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C404	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C407	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C411	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C414	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C427	0CH8106J691	MVK5.0TP35VC10M 10uF 20% 35
		C451	0CE337WJ6D8	MVK12.5TP35VC330M 330uF 20%
		C453	0CE337WJ6D8	MVK12.5TP35VC330M 330uF 20%
		C500	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C511	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C527	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C528	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C600	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C629	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C107	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C111	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C112	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C113	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C116	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C117	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C121	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C122	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C211	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C214	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C216	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C226	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C229	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C239	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C300	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C303	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C304	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C306	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C307	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C308	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C315	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C318	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C324	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C325	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C327	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C332	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C336	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C337	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C340	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C341	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C348	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C352	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C365	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C400	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C401	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C403	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C408	0CK105CF94A	0603F105Z160CT 1uF -20TO+80

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C409	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C410	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C413	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C415	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C417	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C433	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C437	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C438	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C443	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C447	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C449	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C459	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C460	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C461	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C462	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C464	0CK474EK66A	C3216X7R1H474MT 470nF 20% 5
		C466	0CK474EK66A	C3216X7R1H474MT 470nF 20% 5
		C467	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C469	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C472	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C473	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C506	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C507	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C508	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C509	0CK105CF94A	0603F105Z160CT 1uF -20TO+80
		C510	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C513	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C526	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C602	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C603	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C608	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C613	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C614	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C101	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C120	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C129	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C130	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C200	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C202	0CC020CK01A	C1608C0G1H020CT 2pF 0.25PF
		C203	0CC020CK01A	C1608C0G1H020CT 2pF 0.25PF
		C204	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C205	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V
		C206	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V
		C207	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V
		C213	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C215	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C217	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C218	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C219	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C220	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C221	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C222	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C223	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C224	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C225	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C227	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50
		C232	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C233	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C234	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C235	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C241	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C242	0CK104CK56A	0603B104K500CT 100nF 10% 50

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C330	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C331	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C335	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C339	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C347	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C350	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C360	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C402	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C405	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V
		C406	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C412	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C416	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V
		C418	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C420	0CK105CF94A	0603F105Z160CT 1uF -20TO+80
		C421	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C423	0CK105CF94A	0603F105Z160CT 1uF -20TO+80
		C424	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C430	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C445	0CK333CK56A	C1608X7R1H333KT 33nF 10% 50
		C446	0CK333CK56A	C1608X7R1H333KT 33nF 10% 50
		C448	0CK333CK56A	C1608X7R1H333KT 33nF 10% 50
		C450	0CK333CK56A	C1608X7R1H333KT 33nF 10% 50
		C501	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C502	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C503	0CK472CK56A	0603B472K500CT 4.7nF 10% 50
		C504	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C505	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C512	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C514	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C515	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C516	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C517	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C518	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C519	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C520	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C521	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C522	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C523	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C524	0CK474CH94A	0603F474Z250CT 470nF -20TO+
		C525	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C601	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C606	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C607	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
DIODEs				
		D100	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D101	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D600	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D601	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D602	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D603	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D604	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D605	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D606	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D607	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D608	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D609	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		ZD200	0DZRM00248A	RLZ8.2B 8.2V 7.78TO8.19V 80
		ZD602	0DZRM00178A	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZD603	0DZRM00178A	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZD604	0DZRM00178A	UDZS5.1B 5.1V 4.98TO5.2V 80

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R5107	0RJ0822D677	MCR03EZPJ820 82OHM 5% 1/10W
		R6	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R600	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R601	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R610	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R619	0RJ0822D677	MCR03EZPJ820 82OHM 5% 1/10W
		R621	0RJ0822D677	MCR03EZPJ820 82OHM 5% 1/10W
		R628	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R629	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R630	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R631	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R632	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R644	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R645	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R646	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R647	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R648	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R649	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R650	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R651	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R652	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R653	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R654	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R655	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R7	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R8	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R9	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R10	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1002	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1003	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1004	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1005	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1006	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1007	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1008	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1015	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1017	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1018	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1019	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1020	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1027	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1028	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1029	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1030	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1031	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1032	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1033	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1034	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1035	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1037	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1045	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1046	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1047	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1051	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1055	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/1
		R1057	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/1
		R1058	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1059	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1060	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R1062	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1068	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W

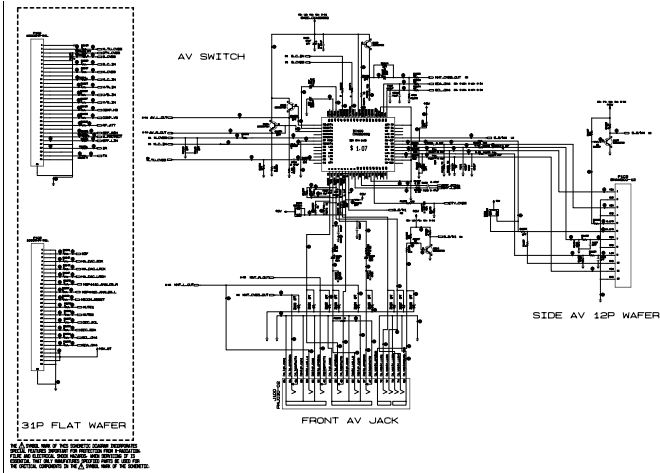
DATE: 2006. 07. 02.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1070	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1071	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1073	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1074	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R1076	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R1079	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R1081	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1082	0RJ0682D677	MCR03EZPJ680 680OHM 5% 1/10W
		R1085	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1086	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1088	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1091	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R1092	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R1093	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R1094	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R1095	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R1096	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R1099	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R111	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1103	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R1104	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R1105	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1106	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1107	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R1108	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1109	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R1110	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R1120	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1123	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1124	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1125	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1126	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/1
		R1127	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/1
		R1128	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R1130	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R1131	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R12	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R14	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R16	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R17	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R20	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R200	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R201	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R202	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R204	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R205	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R207	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R210	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R211	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R217	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R218	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R219	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R220	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R221	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R222	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R223	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R225	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R226	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R227	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R228	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R229	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R230	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R231	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R232	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R233	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R234	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R235	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R236	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R237	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R238	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R239	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R240	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R241	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R242	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R243	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R244	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R246	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R247	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R248	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R252	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/1
		R255	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R256	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/1
		R257	0RJ6202D677	MCR03EZPJ623 62KOHM 5% 1/10
		R258	0RJ2402D677	MCR03EZPJ243 24KOHM 5% 1/10
		R303	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R308	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R309	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R310	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R311	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R317	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R318	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R319	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R321	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/1
		R322	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R323	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R4	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R400	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R401	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R403	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R405	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R406	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R407	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R408	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R409	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R410	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R411	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R412	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R413	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R414	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R415	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R416	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R422	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R423	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R425	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R427	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R428	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R429	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R437	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R438	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R452	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R453	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R454	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R456	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W
		R5	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W

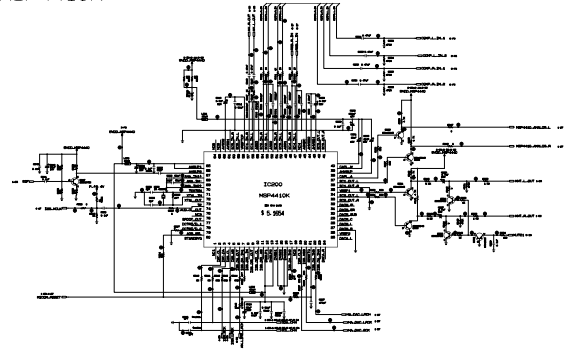
DATE: 2006. 07. 02.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
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			R5007	0RJ0822D677 MCR03EZPJ820 82OHM 5% 1/10W
			R5008	0RJ0822D677 MCR03EZPJ820 82OHM 5% 1/10W
			R5010	0RJ4700D677 MCR03EZPJ471 470OHM 5% 1/10
			R5011	0RJ0822D677 MCR03EZPJ820 82OHM 5% 1/10W
			R5012	0RJ0000D677 MCR03EZPJ000 0OHM 5% 1/10W
			R5013	0RJ0752D677 MCR03EZPJ750 75OHM 5% 1/10W
			R5014	0RJ0000D677 MCR03EZPJ000 0OHM 5% 1/10W
			R5016	0RJ0752D677 MCR03EZPJ750 75OHM 5% 1/10W
			R5023	0RJ0000D677 MCR03EZPJ000 0OHM 5% 1/10W
			R5025	0RJ0000D677 MCR03EZPJ000 0OHM 5% 1/10W
			R5026	0RJ0000D677 MCR03EZPJ000 0OHM 5% 1/10W
			R5108	0RJ0822D677 MCR03EZPJ820 82OHM 5% 1/10W
			R5109	0RJ0822D677 MCR03EZPJ820 82OHM 5% 1/10W
			R5110	0RJ0822D677 MCR03EZPJ820 82OHM 5% 1/10W
			R5111	0RJ2001D677 MCR03EZPJ202 2KOHM 5% 1/10W
			R5112	0RJ2001D677 MCR03EZPJ202 2KOHM 5% 1/10W
			R5113	0RJ0000D677 MCR03EZPJ000 0OHM 5% 1/10W
			R5114	0RJ0000D677 MCR03EZPJ000 0OHM 5% 1/10W
			R5115	0RJ0000D677 MCR03EZPJ000 0OHM 5% 1/10W
			R605	0RJ1002D677 MCR03EZPJ103 10KOHM 5% 1/10
			R607	0RJ1002D677 MCR03EZPJ103 10KOHM 5% 1/10
			R608	0RJ1000D677 MCR03EZPJ101 100OHM 5% 1/10
			R609	0RJ1000D677 MCR03EZPJ101 100OHM 5% 1/10
			R611	0RJ1002D677 MCR03EZPJ103 10KOHM 5% 1/10
			R612	0RJ1002D677 MCR03EZPJ103 10KOHM 5% 1/10
			R616	0RJ0222D677 MCR03EZPJ220 22OHM 5% 1/10W
			R617	0RJ0222D677 MCR03EZPJ220 22OHM 5% 1/10W
			R5003	0RN1002F409 RN-96T1F10K0 10KOHM 1% 1/6W
OTHERS				
			X200	6202VDT002H SX-1 18.432MHZ 30PPM 18.432
			X501	6212AB2015A HC-49/SM4H 4MHZ 30PPM 4MHZ
			D300	0DL233309AC SAM2333 RED/Y-GREEN 2.7V 2.
			D301	0DL233309AC SAM2333 RED/Y-GREEN 2.7V 2.
			D302	0DL233309AC SAM2333 RED/Y-GREEN 2.7V 2.
			D303	0DL233309AC SAM2333 RED/Y-GREEN 2.7V 2.
			X500	6212AB3004D CSALF2M69G4ZF01-A3 2.696MHZ
CONTROL BOARD				
			R101	0RD9101Q609 RDM94T1J9K10 9.1KOHM 5% 1/4
			R102	0RD3301F609 RD-96T1J3K30 3.3KOHM 5% 1/6
			R103	0RD1101Q609 RDM94T1J1K10 1.1KOHM 5% 1/4
			R104	0RD1100Q609 RDM94T1J110R 110OHM 5% 1/4W
			R105	0RD9101Q609 RDM94T1J9K10 9.1KOHM 5% 1/4
			R106	0RD3301F609 RD-96T1J3K30 3.3KOHM 5% 1/6
			R107	0RD1101Q609 RDM94T1J1K10 1.1KOHM 5% 1/4
			R108	0RD1100Q609 RDM94T1J110R 110OHM 5% 1/4W
			SW101	140-313A THVV501BBC 1C1P 12VDC 0.05A
			SW102	140-313A THVV501BBC 1C1P 12VDC 0.05A
			SW103	140-313A THVV501BBC 1C1P 12VDC 0.05A
			SW104	140-313A THVV501BBC 1C1P 12VDC 0.05A
			SW105	140-313A THVV501BBC 1C1P 12VDC 0.05A
			SW106	140-313A THVV501BBC 1C1P 12VDC 0.05A
			SW107	140-313A THVV501BBC 1C1P 12VDC 0.05A
			SW108	140-313A THVV501BBC 1C1P 12VDC 0.05A
			ZD101	0DZ510009AK GDZJ5.1B 5.1V 4.94TO5.2V 80
			ZD102	0DZ510009AK GDZJ5.1B 5.1V 4.94TO5.2V 80

DATE: 2006. 07. 02.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
IR BOARD				
		C200	0CH5101K416	C2012C0G1H101JT 100pF 5% 50
		C201	0CH5330K416	C2012C0G1H330JT 33pF 5% 50V
		C202	0CE476VF6DC	VG476M016S0ANE010 47uF 20%
		C203	0CE476VF6DC	VG476M016S0ANE010 47uF 20%
		C204	0CE476VF6DC	VG476M016S0ANE010 47uF 20%
		L200	0LC1032101A	FI-C3216-103KJT 10UH 10% -
		Q200	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q201	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q202	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		R200	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R201	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R202	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R203	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R204	0RH1001D622	MCR10EZHJ102 1KOHM 5% 1/8W
		R205	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R206	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R207	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R208	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8
		D200	0DLAU0410AA	SAW5670 ROUND 5mM AMBER/WHI
		IC201	6712000013A	TSOP4438SO1 4.5TO5.5V 1.5MA
SIDE A/V BOARD				
		C103	0CH5101K416	C2012C0G1H101JT 100pF 5% 50
		C104	0CH5101K416	C2012C0G1H101JT 100pF 5% 50
		L101	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L102	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		R105	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R106	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R107	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R108	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2

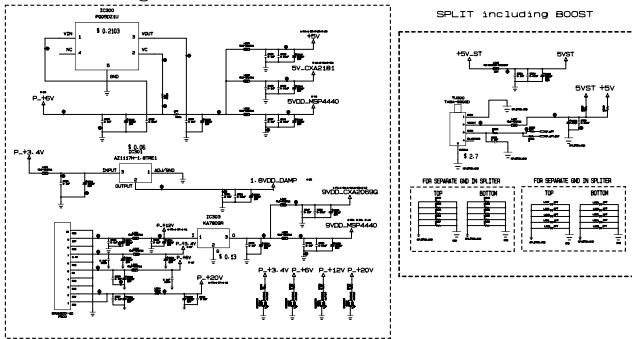


MSP4410K



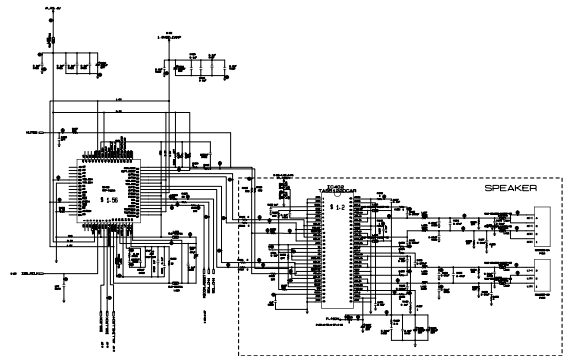
IN A TEST SET OF TWO SPEAKER CABLE TERMINALS, THE LEFT SPEAKER CABLE TERMINAL IS CONNECTED TO THE LEFT SPEAKER AND THE RIGHT SPEAKER CABLE TERMINAL IS CONNECTED TO THE RIGHT SPEAKER. THE SPEAKER CABLE TERMINALS ARE IDENTIFIED BY THE SPEAKER SYMBOLS ON THE SPEAKER CABLE TERMINALS.

Analog Power 10P



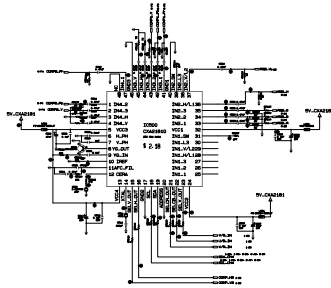
IN A TEST SET OF TWO SPEAKER CABLE TERMINALS, THE LEFT SPEAKER CABLE TERMINAL IS CONNECTED TO THE LEFT SPEAKER AND THE RIGHT SPEAKER CABLE TERMINAL IS CONNECTED TO THE RIGHT SPEAKER. THE SPEAKER CABLE TERMINALS ARE IDENTIFIED BY THE SPEAKER SYMBOLS ON THE SPEAKER CABLE TERMINALS.

NSP2100A(Digital Amp)



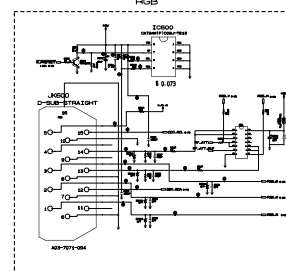
IN A TEST SET OF TWO SPEAKER CABLE TERMINALS, THE LEFT SPEAKER CABLE TERMINAL IS CONNECTED TO THE LEFT SPEAKER AND THE RIGHT SPEAKER CABLE TERMINAL IS CONNECTED TO THE RIGHT SPEAKER. THE SPEAKER CABLE TERMINALS ARE IDENTIFIED BY THE SPEAKER SYMBOLS ON THE SPEAKER CABLE TERMINALS.

COMPONENT SW



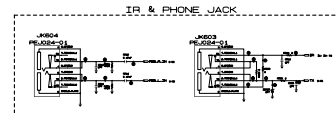
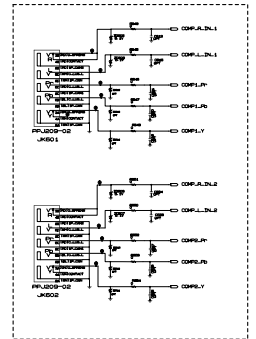
IN A SMALL AREA OF THIS BOARD, SOME COMPONENTS MAY BE MOUNTED IN REVERSE. PLEASE CHECK THE POLARITY OF ALL COMPONENTS CAREFULLY IN THIS SMALL AREA OF BOARD.

External Jack

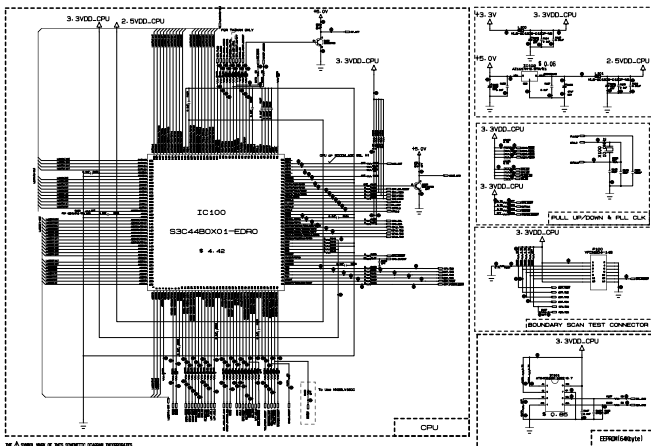


FOR SCREW HOLE SHORT

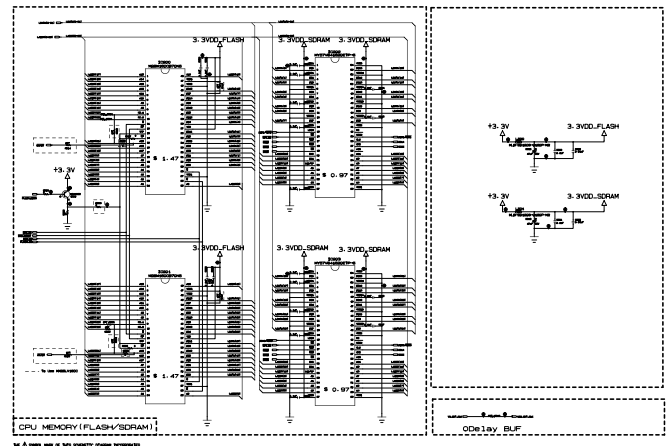
COMPONENT 1/2



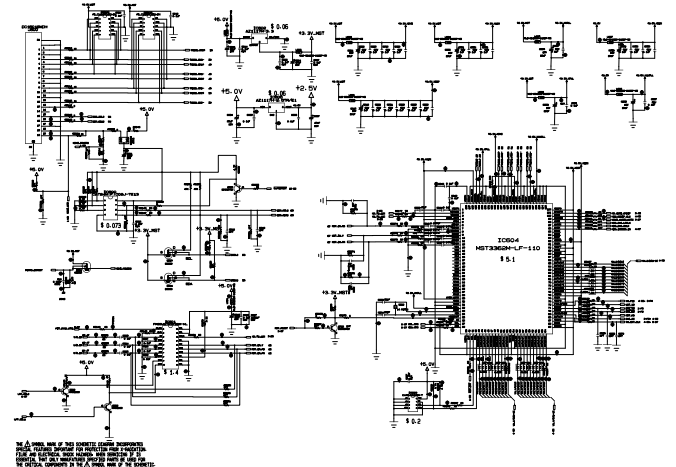
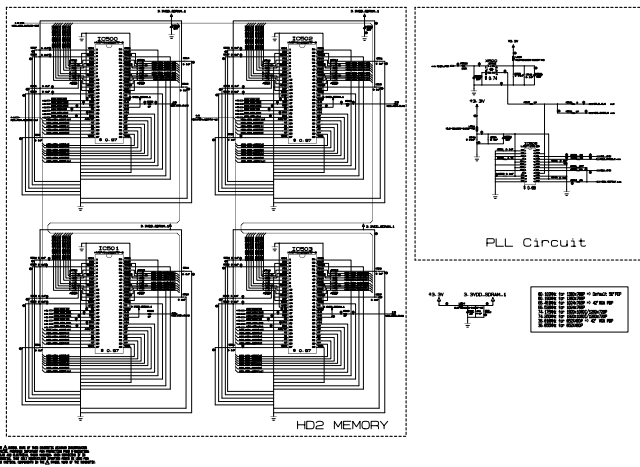
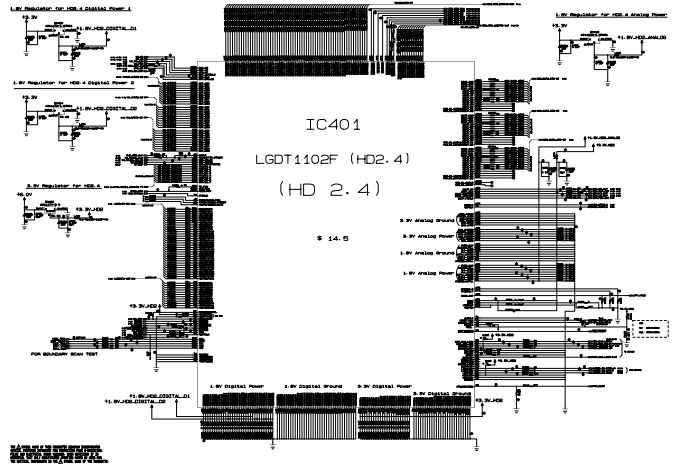
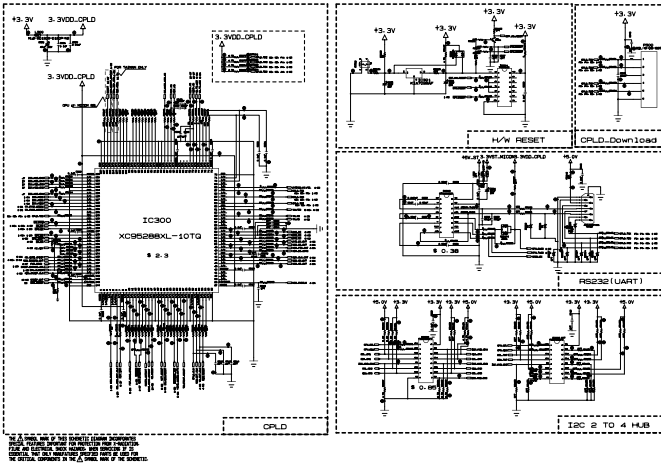
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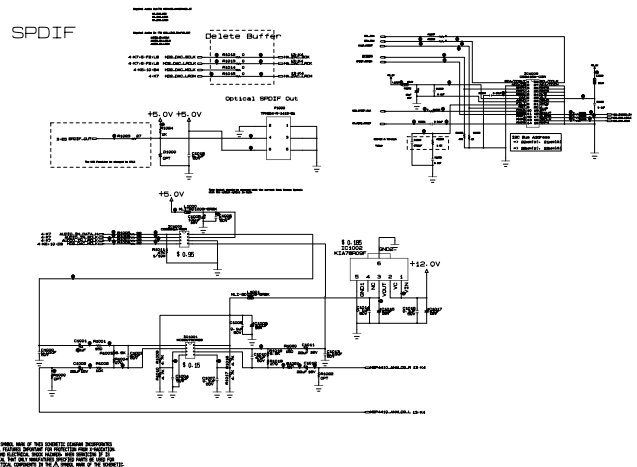
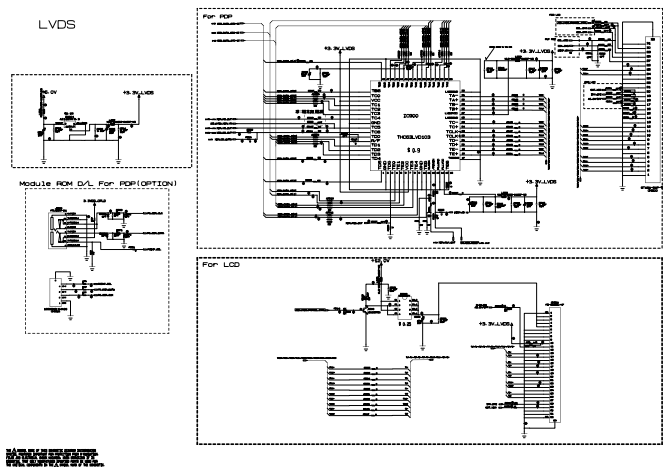
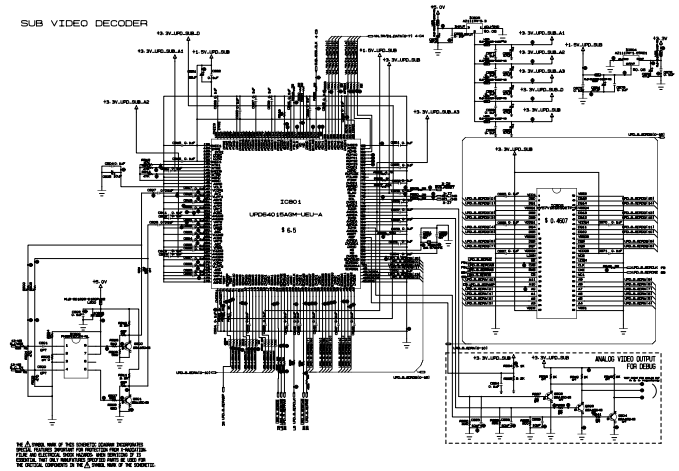
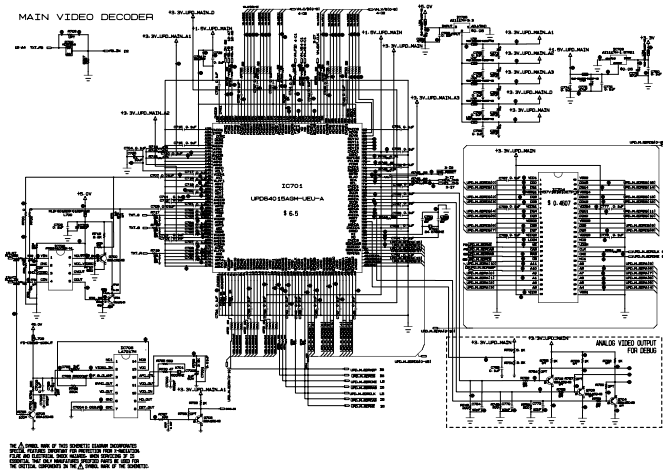


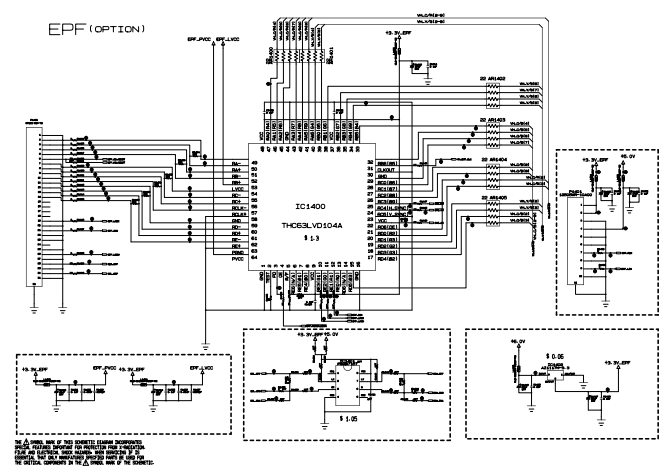
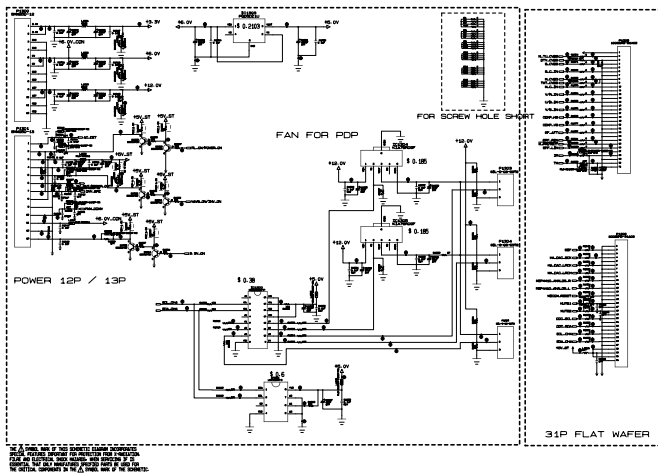
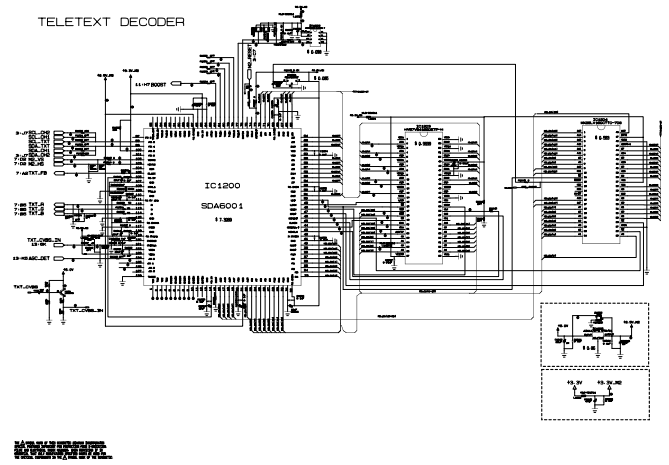
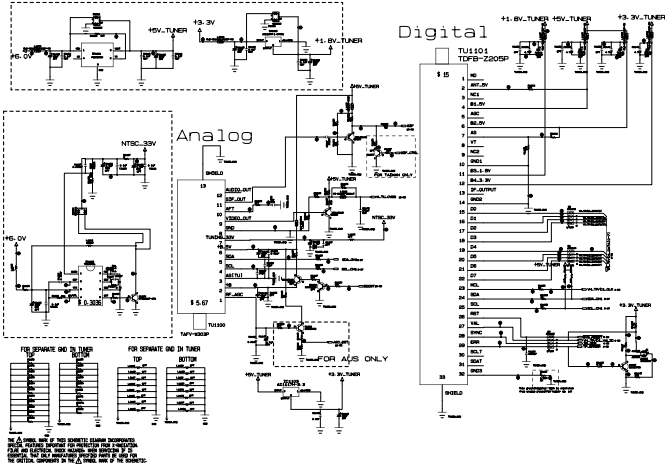
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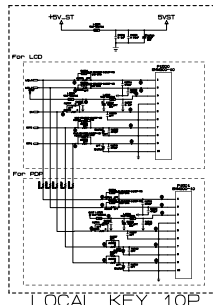
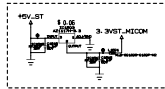
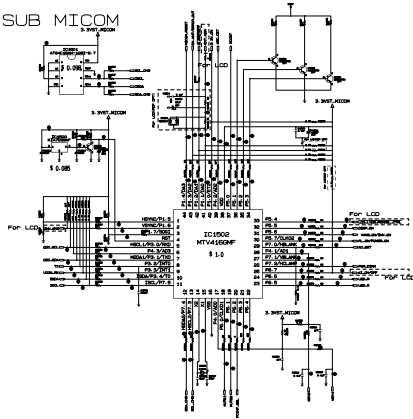
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SUB MICOM



ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 DIMENSIONS IN PARENTHESES ARE FOR REFERENCE ONLY.
 DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
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