

TCL

SERVICE MANUAL

L24D50-MS09A-LA

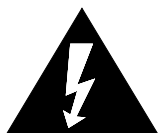
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This manual is the latest at the time of printing, and does not include the modification which may be made after the printing, by the constant improvement of product

1. CAUTION

CAUTION:

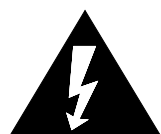
Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.



CAUTION
RISK OF ELECTRIC
SHOCK DO NOT OPEN.



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, with an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the person.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

Read all of these instructions. Save these instructions for later use. Follow all Warnings and Instructions marked on the audio equipment.

1. Read Instructions- All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions- All operating and use instructions should be followed.

FOR YOUR PERSONAL SAFETY

1. When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
2. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
3. Do not allow anything to rest on or roll over the power cord, and do not place the TV where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
4. Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
5. Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television set.
6. If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
7. If liquid has been spilled into the television set, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
8. Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.
9. Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 10.1. Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 10.2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



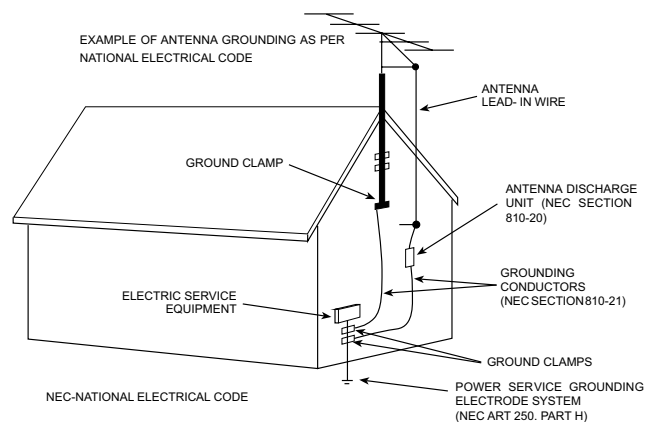
PROTECTION AND LOCATION OF YOUR SET

11. • Do not use this television set near water ... for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
 - Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing to qualified service personnel.
12. Choose a place where light (artificial or sunlight) does not shine directly on the screen.
13. Avoid dusty places, since piling up of dust inside TV chassis may cause failure of the set when high humidity persists.
14. The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, to protect it from overheating. These openings must not be blocked or covered.
 - Never cover the slots or openings with cloth or other material.
 - Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.
 - Never place the set near or over a radiator or heat register.
 - Never place the set in a "built-in" enclosure, unless proper ventilation is provided.

PROTECTION AND LOCATION OF YOUR SET

- 15.1. If an outside antenna is connected to the television set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrode, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS



15.2. Note to CATV system installer : (Only for the television set with CATV reception)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. For added protection for this television set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.

OPERATION OF YOUR SET

18. This television set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.
19. If the television set does not operate normally by following the operating instructions, unplug this television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.
20. When going on a holiday : If your television set is to remain unused for a period of time, for instance, when you go on a holiday, turn the television set " off " and unplug the television set from the wall outlet.

IF THE SET DOES NOT OPERATE PROPERLY

21. If you are unable to restore normal operation by following the detailed procedure in your operating instructions do not attempt any further adjustment. Unplug the set and call your dealer or service technician.
22. Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.
23. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

FOR SERVICE AND MODIFICATION

24. Do not use attachments not recommended by the television set manufacturer as they may cause hazards.
25. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.



TCL MULTIMEDIA

LCD TV SPECIFICATION RELEASE

Version: V1.0

Issued Date: 2012.4.23

Model: LED24D50/MS09A-LA



PICTURE	
Panel Size (inch)	23.6"
Category	LCD TV
Aspect Ratio	16:9
Color Temperature	Medium/Warm/Cool
Backlight Adjustable	Yes
Zoom Mode	Auto/4:3/16:9 /Zoom1/Zoom2/Just Scan/Panorama
Picture Effect	4 picture effects preset (Standard/Bright/Mild/User)
Film Mode (3:2/2:2 pull down)	Auto
Picture Enhancement	
Comb Filter	3D
Core Technology	High-quality scaling engine & 3D video de-interlacer
CCS	X
DCDi™	X
Blue Stretch	Yes
Black Stretch	Yes
Motion Compensation	Yes
DLTI	Yes
DCTI	Yes
Dynamic Skin Correction	Yes
DNR	Yes(Off/Low/Middle/High/Auto)
Panel Specification	
Back Light Unit	LED
Panel supplier	CMO (4A-LCD24E-CM5)
Viewing Technology	--
Display Resolution	1920*1080
Brightness (cd/m2)	280
Contrast Ratio	1000:1
Response Time	5ms (G to G)
Viewing Angle (H/V)	170°/160°
Life Time	>30,000hrs (min)
Color	16.7M (8 bit)
SOUND	
Speakers	Integrated speakers (Two mediant)
Audio Power Output	5W+5W
DVSS (Dolby Virtual Surround)	X
DDAS (Digital Dynimic Audio System)	Yes
AVC (Auto Volume Control)	Yes
BBE	X
SRS	X
MTS	Yes(Stereo/Mono/SAP)
Sound Features	AV Stereo,Mstar Surround
Sound Control	Volume, Balance,5 Band EQ, 5 mode presets (Movie/Sports/Standard/Music/User)
Function	
Parental Guidance	Yes
CCD (Closed Caption)	Yes
Teletext	X
Macro Vision	X
Calendar	X
Clock/Timers	Yes
Lock	Yes(Parental Guidance and Content Lock at DTV)
OSD Language	English/Portuguese/Spanish
OSD Features	16 Bit COLOURS
REC	Yes(at DTV)
GUIDE	Yes(at DTV)
AUDIO Language	Yes(at DTV)
Screen Saver	Yes
Melody	Yes
Software Upgrade	Yes(By USB)
Game	X
USB Connection	Yes.Movie /Music/Photo/ Text
Demo function	X
Hotel	In factory mode
Other Functions	--

SIGNAL FORMAT CAPABILITY	
Component Video Format	Y,Pb/Cb,Pr/Cr:up to 1080P
DVI Video Format	Yes
HDMI Video Format	SD,HD,VGA;up to 1080P
PC Compatibility	VGA,SVGA,XGA etc.
TERMINALS	
Audio/CVBS Input (Composite)	1 AUDIO R/L+1 Video: AV1IN 1 AUDIO R/L+1 Video:AV2 IN(at side)
S-Video Input	X
Audio Input for S-Video	X
YPbPr Input	1
Audio Input for YPbPr	1
YCbCr Input	Share with for "YPbPr"
Audio Input for YCbCr	Share with for "YPbPr"
VGA Input(RGB)	1 (D-Sub,15 Pins)
Audio Input for RGB	Share with for"YPbPr"Audio Input
DVI	Share with HDMI
Audio Input for DVI	Share with for"YPbPr"Audio Input
HDMI 1.3	1
Audio/CVBS Output (Composite)	1
SPDIF	1
Headphone Output	X
RF Input(Antenna)	2 (Antenna,Cable) F Type
USB 2.0	1(at side)
Basic Info.	
TV System	NTSC-M,PAL M/N
DTV System	ISDB-T
AV System	PAL,NTSC
Channels(analog)	Antenna: 2~69; CATV: 1~125
DTV Channels(digital)	Antenna: 7~69
Chassis	MS09A-LA
Certification	CB
Power Supply	DC 12V(External Adapter Power Supply :AC 100V-240V 50/60Hz)
Power Consumption-TV on	30W
Power Consumption-Standby	<1W
Default Color of Front Cabinet	Black
Keyboard Position	Back
Base Stand Detachable	Yes
Unpackaged Dimension for Main Body (L*H*D) (mm)	
With Base Stand (mm)	588.3*412*171(Base Glass);
Without Base Stand (mm)	688*475*72.4
Packaged Dimension (L*H*D)	
Main Body (mm)	683*475*147
Speaker Box	X
Base Stand	Packaged with ALL
Net Weight (Kg)	5.4kg(Base Glass);
Gross Weight (Kg)	6.3kg(Base Glass);
Container Loading	
20 feet	655
40 feet	1355
40 feet high	1512
ACCESSORIES	
Operation Manual	English(Default)
Remote Control Mode	RC200 (with two 7# batteries)
Base Stand	Integrated Packaging
Speaker Box	Integrated
Wall Mount	Optional
Others	AC Power cord

Drafted by: CHENGB

Approved by:

Design and specifications are subject to change without notice!

OEM Business Unit

OEM R&D Center

Alignment Procedure

(MODEL): MS09-LA Series

VERSION: V1.0

PREPARED BY : LIYAJIAN **DATE :** 2011-10-29

APPROVED BY : _____ **DATE :** _____

History	Description of major changes	Release Date
V1.0	NEW	2011-10-29

1. Overview

MS09 chassis is a LA LCD platform with ISDB-T, the main chip is from MSTAR(MSD1309PX) and supports below inputs:

- One analog and digital mixed RF (PAL-M/N, NTSC-M, ISDB-T)
- Two HDMI (Support from 480i up to 1080P)
- Two USB (Support Movie /Music/Photo/ Text)
- Two AV input
- One CMP (Support from 480i up to 1080P)
- One VGA (Support VGA, SVGA, XGA etc.)
- One AV output
- One SPDIF output
- One Headphone

More relevant details are listed into the Spec.

Note: design menu include factory menu, service menu, hotel menu and some miscellaneous. Factory menu and its items are used for manufacturing alignment; Service menu and Hotel menu are for after service. The design menu is for only R&D adjustment.

2. Factory Menu

2.1. Methods of Entering

Method 1:

- Press Remote Control key “**MEUN**” to display main menu, and choosing the “**Contrast**” in “**Picture→Picture Mode→User**” sub-menu.
 - Press Remote Control keys sequentially : “**9**” , “**7**” , “**3**” and “**5**”
- “**Factory Menu**” will appear in the left top of screen

Method 2:

To pop-up Factory Menu in case of “ Factory Hotkey ” is

Factory Alignment Specification

enabled(on), please follow below step:

- Press Remote Control key “RETURN”

To exit “**Factory Menu**”, Press “EXIT” key on Remote Control.

To comeback to “**Factory Menu**” root when you are into a sub-menu:

- Press Remote Control “MENU” key.

2.2. General introduction

FACTORY MENU

ITEMS	Default Setting	Description	Status
1-FAC HOTKEY	OFF	Factory hotkey Switch (OFF/ON). Should be OFF after factory alignment	OK
2-WARM UP	OFF	OFF: The set would enter standby mode after 15 minutes without input signal; ON: Aging mode. Aging time will display on the left bottom of screen.	OK
3-ADC	》	ADC calibration (refer as follow)	OK
4-WHITE BALANCE	》	White Balance data adjustment (refer as follow)	OK
5-SHOP SET FAC CH	DO	Preset specific factory channels for specific factory. Press left and right button to select the factory, and then press OK to confirm.	OK
6-POWER ON MO. .	STB	ON: Always turns on TV when AC power on STB: Always goes to standby mode when AC power on LAST: Restore the status before the last AC power off .	OK
7- USB UPDATE	DO	USB update, (refer as follow) .	OK
8- NVM reset	DO	System initialization. Restore all data except the White Balance and ADC data ;Only for R&D.	OK
9- SHOP	DO	Reset the set after production alignment; (This operation will remove all unnecessary factory value; The factory hotkey will be turn off).	OK

Factory Alignment Specification

Note: Below the factory menu, some model information are showed, including software version, Project Name, SIACP Version, and SW release time.

ADC Submenu:

ITEMS	Default Setting	Description	Status
Source	RGB/YPbPr (HD)	Sources need calibration. RGB means PC and YPbPr (HD) means YPbPr	OK
R- GAIN	5363	R- GAIN	OK
G- GAIN	5365	G- GAIN	OK
B- GAIN	5379	B- GAIN	OK
R- OFFSET	2048	R- OFFSET	OK
G- OFFSET	256	G- OFFSET	OK
B- OFFSET	2048	B- OFFSET	OK
AUTO ADC	WAIT/OK	With appropriate pattern (mentioned below) inputted, press left or right key to start auto calibration.	OK

WHITE BALANCE Submenu

ITEMS	Default Setting	Description	Status
Source	Current Source	Current Source (AV1/Component/PC-RCB/HDMI1), Only HDMI1 need adjustment)	OK
COLOR TEMP	Medium	Medium /COOL/WARM	OK
R-GAIN	128	R-GAIN	OK
G-GAIN	128	G-GAIN	OK
B-GAIN	128	B-GAIN	OK
R-OFFSET	128	R-OFFSET	OK
G-OFFSET	128	G-OFFSET	OK
B-OFFSET	128	B-OFFSET	OK
WB INIT	DO	ONLY FOR TCL R&D	OK

3. Design Menu

3.1. Methods of Entering

Method 1:

- Press Remote Control key “**MEUN**” to display main menu, and choosing the “**Contrast**” in “**Picture→Picture Mode→User**” sub-menu.

Factory Alignment Specification

- Press Remote Control keys sequentially : “1” , “9” , “5” and “0”

“Design Menu” will appear in the left top of screen

Method 2:

To pop-up Factory Menu in case of “Design Hotkey” is enabled (on), please follow below step:

- Press Remote Control key “RETURN”

3.2. General introduction

DESIGN MENU

ITEMS	Default Setting	Description	Status
1-DESIGN HOTKEY	OFF	OFF: hotkey is invalid ON: hotkey is availability	OK
2-FACTORY MENU	》	Into Factory Menu	OK
3-SHOP INIT	》	Default setting submenu after production alignment refer to	OK
4-OTHER	》	Other set .Only for TCL R&D	OK
5-SERVICE MENU	》	After service menu description	OK
6-PARAM SETTING	》	Parameter setting submenu	OK
7-HOTEL MENU	》	Hotel submenu	OK

SHOP INIT submenu

ITEMS	Default Setting	Description	Status
Volume	30	0-100 adjustable	OK
PIC MODE	STANDARD	STANDARD/BRIGHT/SOFT/PERSONAL	OK
SOUND MODE	STEREO	STEREO/MUSIC/MOVIE/NEWS/PESONAL	OK
CH NUMBER		invalid	OK
Language	English	English/Portuguese/Spanish optional	OK
COLOR SYS		invalid	OK

Factory Alignment Specification

SOUND SYS	MN	Only MN apply	OK
PRESET CH	2	2-69 adjustable	OK
COLOR TEMP	NORMAL	NORMAL、WARM、COOL optional	OK

Other

ITEMS	Default Setting	Description	Status
VIF1		VIF adjust Exclusively used by TCL R&D	OK
VIF2		VIF adjust Exclusively used by TCL R&D	OK
VIF3		VIF adjust Exclusively used by TCL R&D	OK
QMAP ADJUST		PQ debug Exclusively used by TCL R&D	OK
SSC		SSC adjust Exclusively used by TCL R&D	OK
DBC ENABLE		DBC adjust Exclusively used by TCL R&D	OK
BP		Exclusively used by TCL R&D	OK
CP		Exclusively used by TCL R&D	OK
DBC MODE		Exclusively used by TCL R&D	OK

PARAM SETTING 设置

ITEMS	Default Setting	Description	Status
Brightness Curve		Brightness curve. Exclusively used by R&D	OK
Contrast Curve		Contrast curve. Exclusively used by R&D	OK
Saturation Curve		Saturation curve. Exclusively used by R&D	OK
Hue Curve		Hue curve. Exclusively used by R&D	OK
Sharpness Curve		Sharpness curve. Exclusively used by R&D	OK
Volume Curve		Volume curve. Exclusively used by R&D	OK
BlackLight Curve		BlackLight curve. Exclusively used by R&D	OK
Headphone	OFF	ON: Headphone is availability OFF: Headphone is invalid	OK
HDMI 2	OFF	ON: HDMI 2 is availability OFF: HDMI 2 is invalid	OK

Factory Alignment Specification

USB 2	OFF	ON: USB 2 is availability OFF: USB 2 is invalid	OK
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4、Service Menu

4.1、Methods of Entering

- Press Remote Control key “**MEUN**” to display main menu, and choosing the “**Contrast**” in “**Picture→Picture Mode→User**” sub-menu.
 - Press Remote Control keys sequentially : “**9**” , “**7**” , “**0**” and “**5**”
- “**Service Menu**” will appear in the left top of screen

SERVICE MENU:

ITEM	Default Setting	Description	Status
SW NO		Software Version	OK
DATE		Date and time of software releasing	OK
Project Name		Module name	OK
SIACP VERSION		SIACP VERSION	OK
Chassis	MS09	Chassis name	OK
PANEL		P/N of panel	OK
			NG
PROJECT ID		Project Select submenu	OK
USB UPDATE		USB UPDATE	ok
HOTEL ENABLE	OFF	HOTEL MENU SWITCH	ok
ERROR CODE	OFF	Error prompt	OK
TCL_LOGO	ON	LOGO SWITCH	OK
PVR RECORD ALL	OFF	PVR RECORD ALL SWITCH	OK

5. Debugging

5.1. General Steps of debugging

According to the requirement of the order, below steps are needed for appropriate setting.

- 1) Enter the Factory Menu, enable FAC HOTKEY.

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- 2) Check Project ID and the version of software, release date displayed at the bottom of Factory Menu.
- 3) Enter Design Menu, choose SERVICE MENU->Project ID, choose corresponding Project ID number of the product (Refer to the "V6-PROJECT -ID0**" in the BOM list).
- 4) Return to Factory Menu, check the Product model.
- 5) Choose Factory Menu->NVM RESET and press the right button of the remote and wait until prompt OK appears.
- 6) Restart the set
- 7) According to the requirement of the order, Set the items of SHOP INIT and Hotel Menu etc.
- 8) After aging under normal temperature, calibrate ADC and adjust white balance.
- 9) Choose Factory Menu ->SHOP and press the button of remote to initialize the set.

Note: After step 9, Hotel Menu will be disabled by default. Therefore, if the order requires hotel function, it is necessary to enable hotel function by set Design MENU->Service Menu->HOTEL ENABLE to ON.

5.2. Equipments

- Color Analyzer CA-210.
- Video Pattern Generator Chroma2329.
- Color TV Pattern Generator PM5418/Fluke5418.
- VGA cable , AV(RCA) cable ,YPBPB (RCA) cable, HDMI cable etc.



Chroma2329



Fluke5418



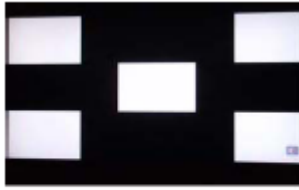
CA-210

5.3. ADC Calibration

5.3.1. Signal and generator

PC: Chroma2329 Pattern 42, Timing 14(1024X768@60Hz 5 MOSAIC)

YPBPR: Chroma2329 pattern 103, Timing 79(100% Color Bar, 720p)



5 MOSAIC

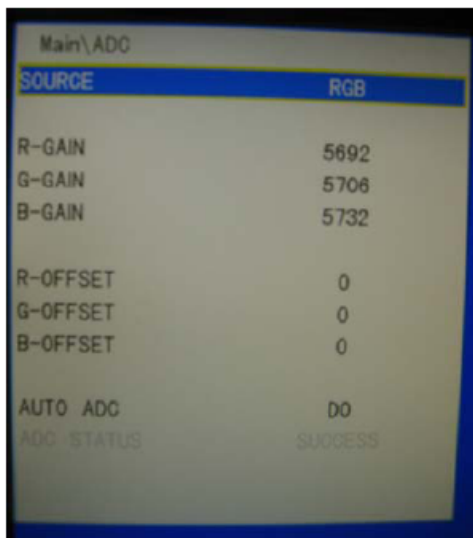


100% Color Bar

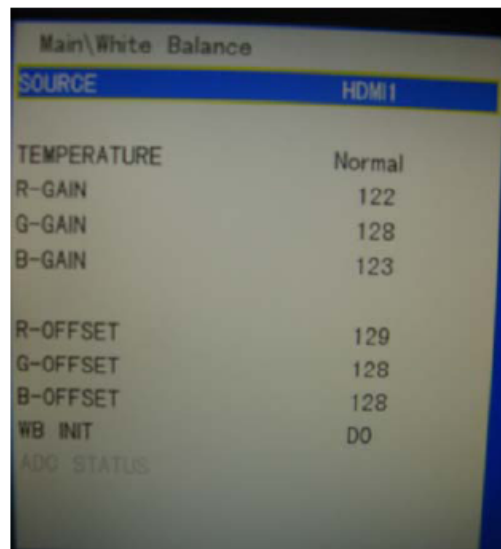
5.3.2. Steps of Calibration:

- 1). Access to the Factory menu->ADC
- 2). select RGB source and see the 5 MOSAIC appear on the screen
- 3). Select AUTO ADC , Press the right button on the your remote to calibrate the ADC automatically.
- 4). Select YPBPR source and Repeat step 5.3 .

When the OK appears the calibration has been finished successfully.



VGA calibration



HDMI 1 WB adjustment

5.4. White Balance adjustments (Manual)

Before adjustment , you must make sure the ADC status(only PC and YPbPr) is “success” and Color Analyzer has been calibrated .Only AV1,YPbPr,PC,HDMI1 need to be adjusted. HDMI1 should be the first.

5.4.1. Signal and generator

The pattern of the signal should be used are White (Chroma2329 pattern 113) and Grey (pattern 114).

The format of signal are respectively 720P for HDMI1 (Chroma2329

Factory Alignment Specification

Timing 69), NTSC (Chroma2329 Timing37) for AV1, 1024X768@60Hz (Chroma2329 Timing14) for VGA and 720P (Chroma2329 Timing79) for YPbPr.

5.4.2. Steps of adjustment

1). Enter the factory menu → White Balance, select source HDMI 1 and Normal Temperature.

2). Input grey signal in 720p format.

3). Change R-OFFSET and B-OFFSET to make sure the value of color coordination equal to $(X=0.280 \pm 0.015; Y=0.290 \pm 0.015)$.

4). Input white signal in 720p format.

5). Change R-GAIN and B-GAIN to make sure the value of color coordination equal to $(X=0.280 \pm 0.015; Y=0.290 \pm 0.015)$.

6). Repeat step 2—5 until both of the value of color coordination of white and grey equal to $(X=0.280 \pm 0.015; Y=0.290 \pm 0.015)$.

For COOL and WARM color temperature, just repeat step 2—5. The color coordination we recommend for COOL and WARM color temperature is respectively $(X=0.270 \pm 0.015; Y=0.270 \pm 0.015)$ and

$(X=0.300 \pm 0.015; Y=0.305 \pm 0.015)$.

After the adjustment of HDMI1, you can switch to other source AV1, PC and YPbPr and repeat step 1—6 to do the WB adjustment.

Note: For some small size LED panel, the color coordination of specifications is not $X=0.280/Y=0.290$, and we recommend you adopt the values from panel specifications.

5.5. ADC Calibration and White Balance Adjustment (automatic)

The process of adjusting ADC and White Balance automatically is out of the range of this file, Please refer to the relevant technical file of HuiZhou factory of TCL.

6. Chip list of software programming before SMT

Following chips must be programmed before SMT by ALL-11 or other tools

Position	Chip type	Software description
U205	M24C32	HDMI HDCP Key and factory data
U202	W25Q32	System Software

7. Software update

Method of SW update:

1). Download the bin file “MS09_ISDB_TCL.bin” to the root directory

Factory Alignment Specification

of your USB device (DO not change the file name); Then insert the USB device to USB interface of TV set.

2) Press the “MEUN” button of Remote Control, then select the “**Software Update(U..>)**” item in “**Option**” sub-menu, press left or right key to enter the update box.

3). Press left button Select “YES” of the dialog box and to start the update, you will see a progress box on the screen.

4). After updating , the set will reset automatically.

5). Enter the “**Factory Menu**”, and check the software information (SW NO/Product Name/Version/Date) at the bottom of menu. If the project name is not the one you wanted, you are recommended change the Project following the “**Project ID selecting**” below.



Updating dialog box



Updating progress

Notes: During the upgrade procedure , power supply cannot cut off.

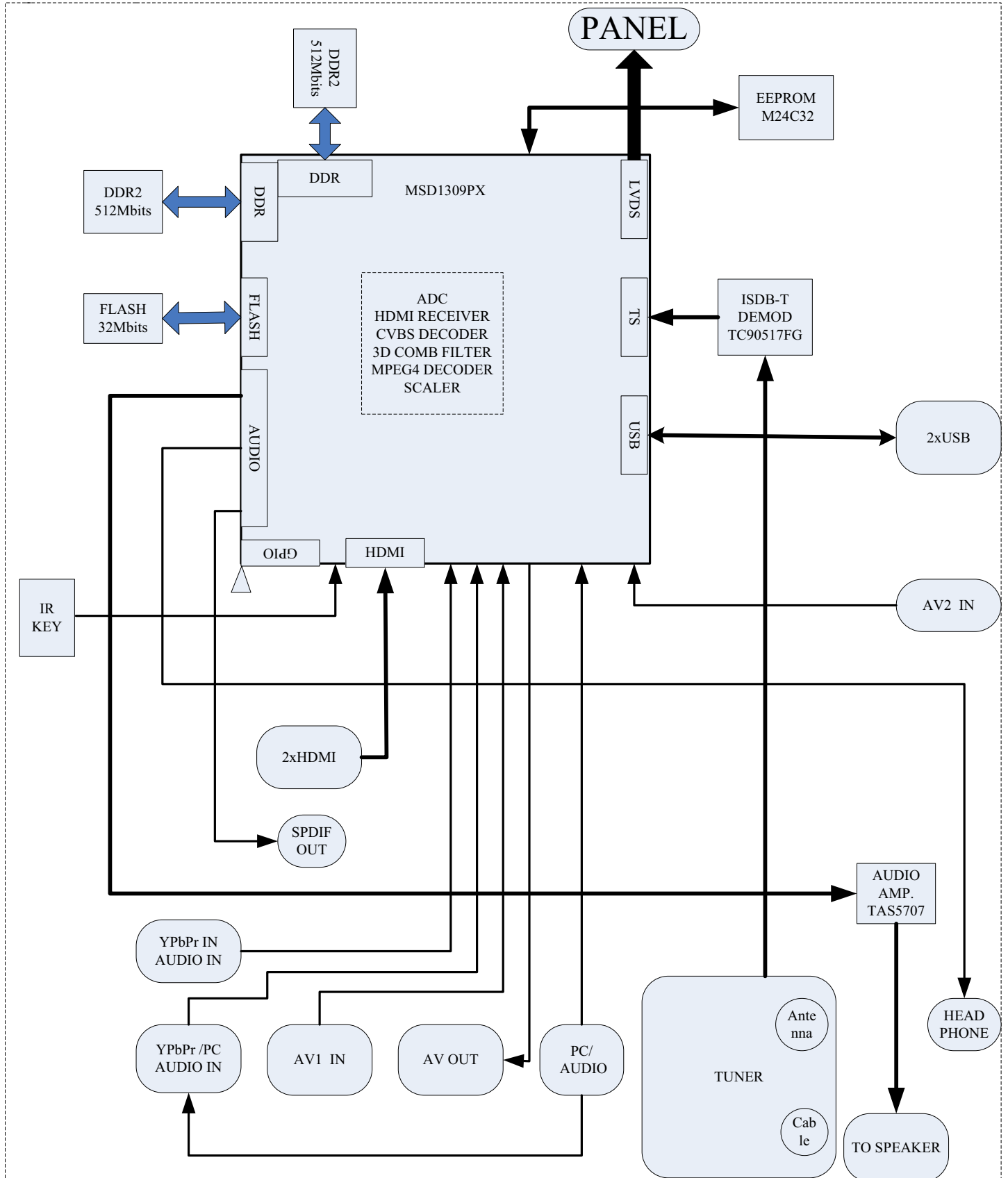
8. Project ID selecting

- 1). Press Remote Control key “MEUN” to display main menu, and choosing the “**Contrast**” in “**Picture→Picture Mode→User**” sub-menu, press 1, 9, 5, 0 consecutively, there you go the “**Design Menu**” .
- 2). Select the “**SERVICE MENU**” item, press OK and RIGHT button of the remote to enter submenu;
- 3). Select the “**PROJECT ID**” item, press OK or RIGHT button of the remote to enter the submenu;
- 4). Press the right or left button of the remote to select the ID you want.
- 5). After ID selection, press MENU button of the remote to exit “**DESIGN MENU**” .
- 6). Finally, do AC power on/off.

MS09 BLOCK DIAGRAM

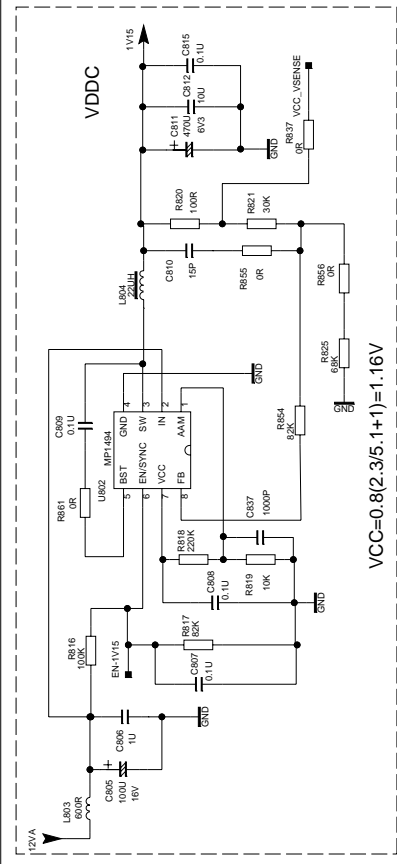
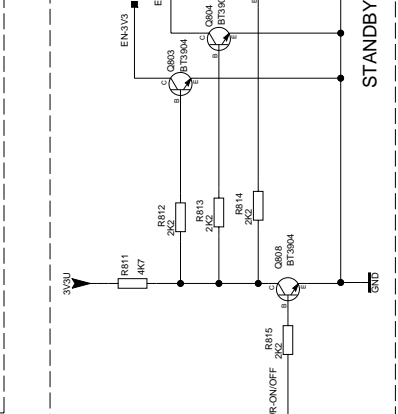
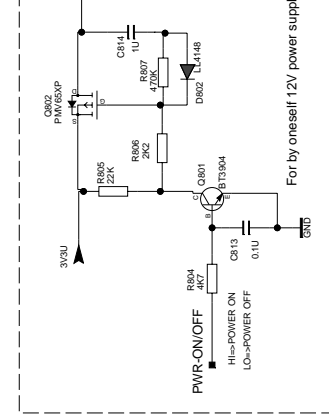
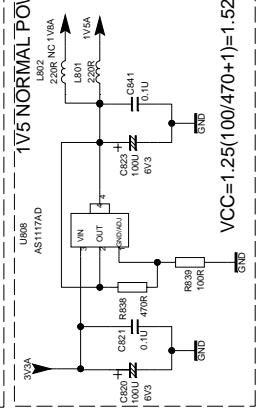
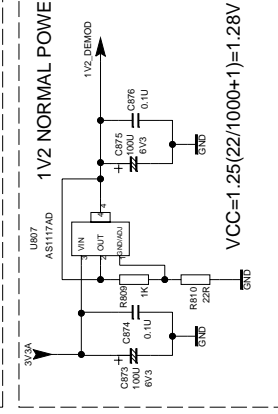
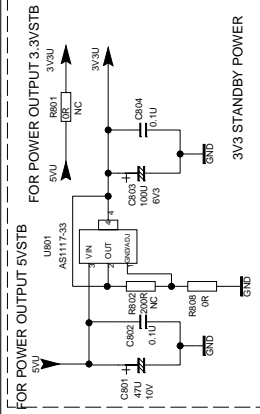
-----LIYAJIAN

Power supply

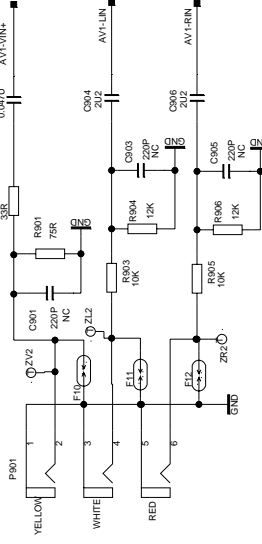


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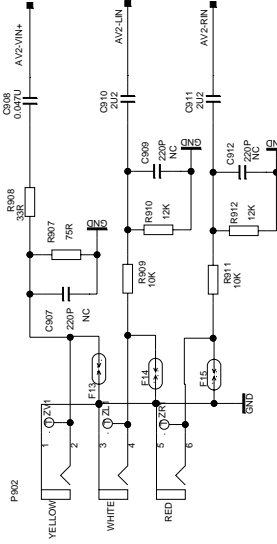
7	6	5	4	3	2	1
D	C	B	A			
<div><div><div>MODEL: 01-0MS09A-MAC2HG</div><div>DESCRIPTION:</div><div><div>DRAWN: DATE:</div><div>CHECK: DATE:</div><div>APPR: DATE:</div></div></div><div><div><div>TCL</div><div>WW KUALA LUMPUR TCL ELECTRONICS TECHNOLOGY HONGKONG LTD. TCL ELECTRONICS (HONG KONG) LIMITED NANSHAN INDUSTRIAL BUILDING GUANGZHOU TIANHUO CHINA TEL: 86-20-35551240</div></div><div><div>NOTE:</div><div>PAGE: 2</div><div>OF 1</div></div></div></div>						
FORMAT DIN A4						



AV1-IN



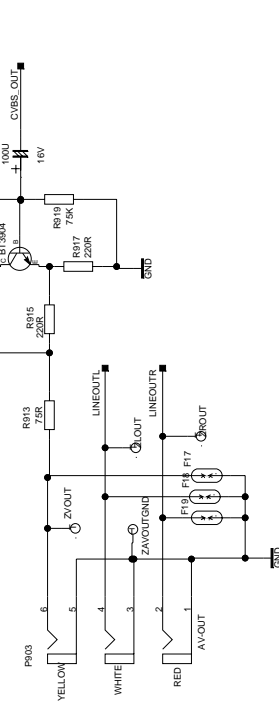
AV2-IN



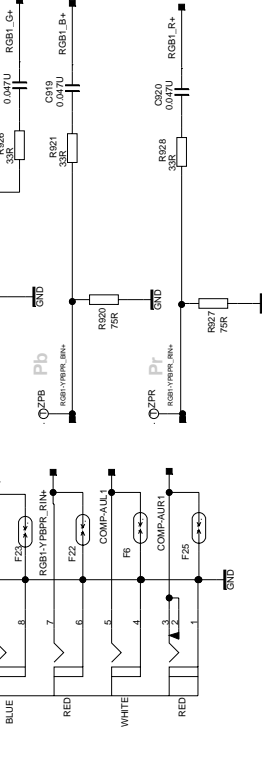
Keep GND trace with signal

Keep spacing for L/R

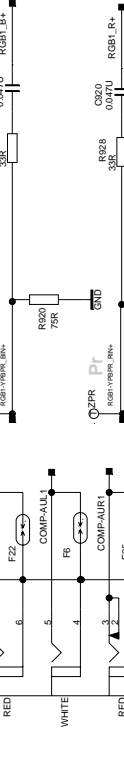
AVOUT



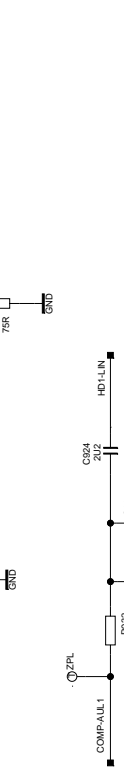
GREEN



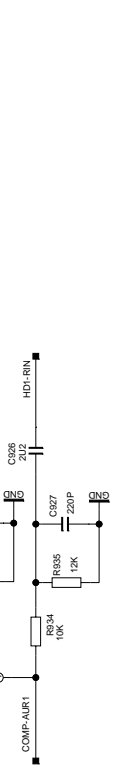
BLUE



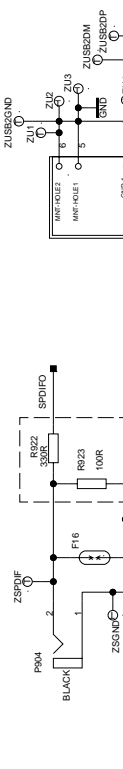
RED



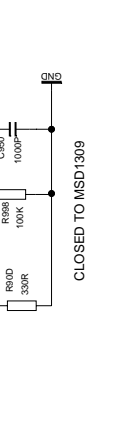
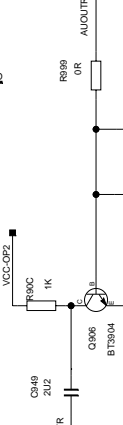
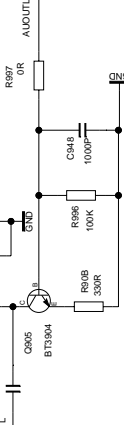
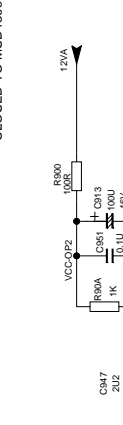
WHITE

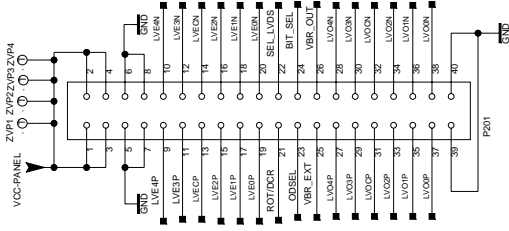
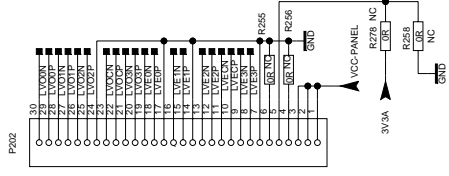
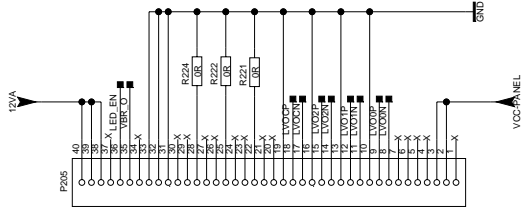


RED

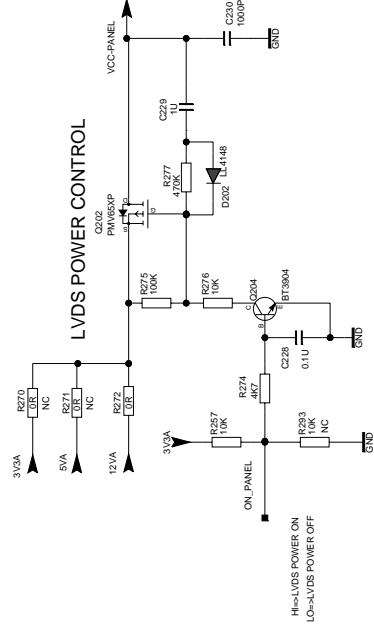
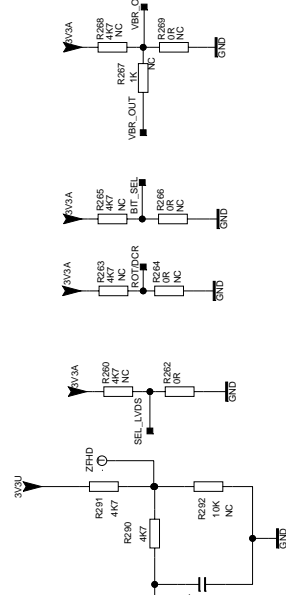


CLOSED TO MSD1309

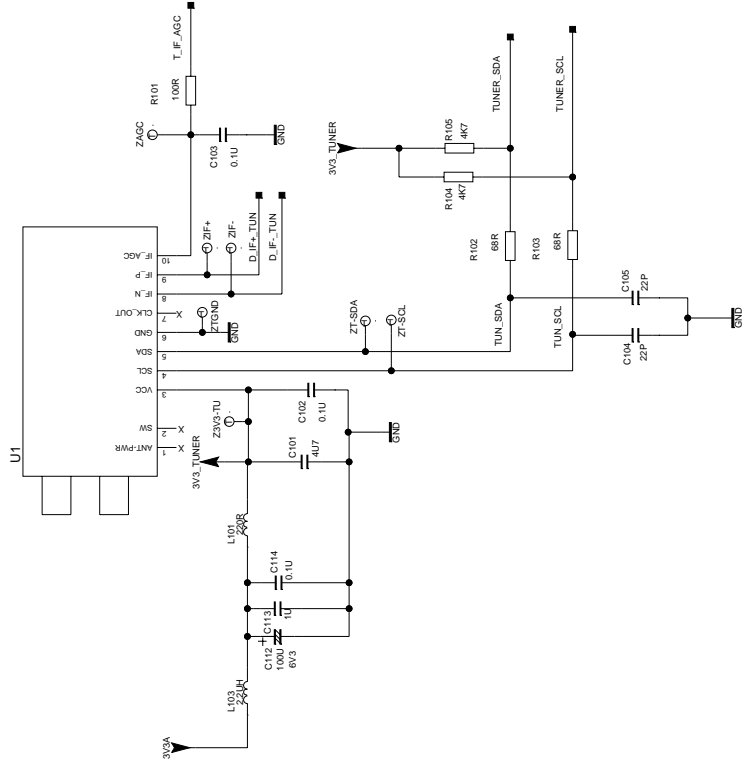




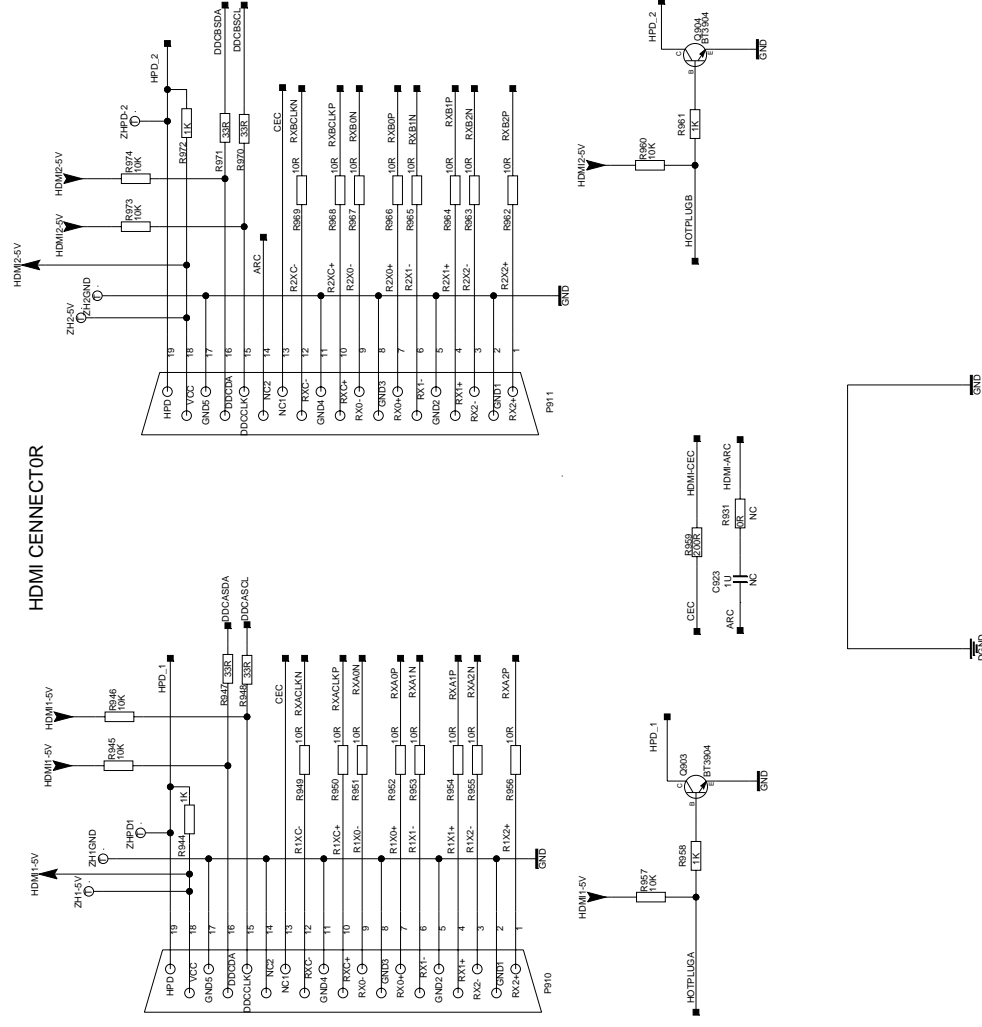
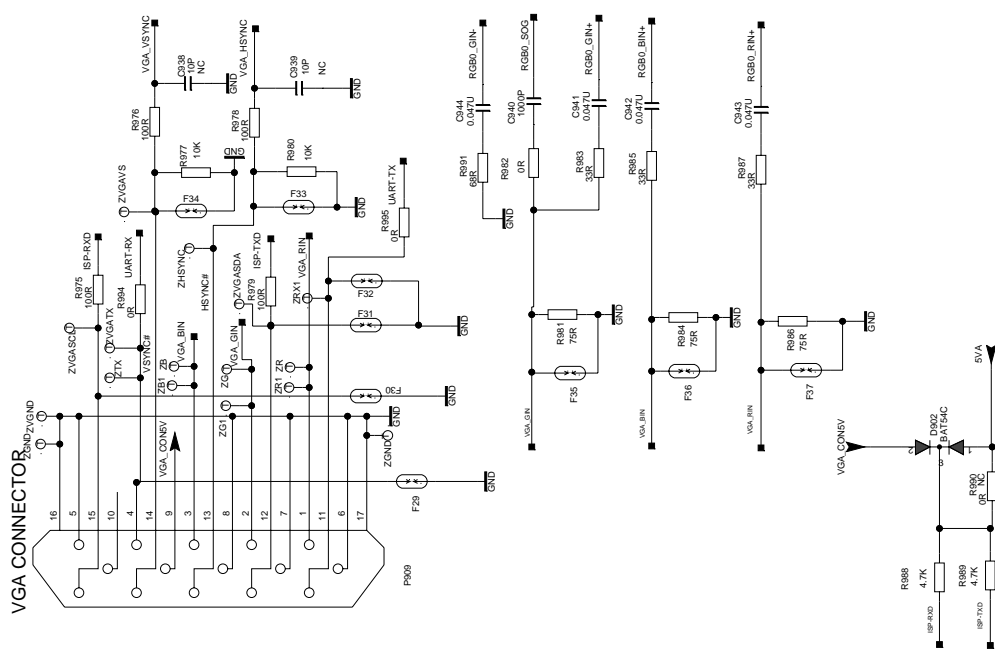
PANEL	R291	R292	VALUE
HD	NC	NEED	0
FULL_HD	NEED	NC	3V3







L:D_IF-AGC OFF;TUAGC ON
H:D_IF-AGC ON;TUAGC OFF



H4-YD50S7S-AG61

LED24D50/MS09A-LA/CM4GTA

parent	child	description	BOM text
H4-YD50S7S-AG61	T6-520W37-CAD2X	REMOTE RC200 FOR TELEFUNKEN (NEC CODE) B	
T6-520W37-CAD2X	06-520W37-C002X	RCT NO LOGO BLACK 3V 0.3A 0.000003A 1137	
H4-YD50S7S-AG61	T8-24D207N-IV4	ASS'Y - INVERTER PARTS	
T8-24D207N-IV4	40-24D20D-DRH2LG	PCB UR 210*200MM 18PC DOUBLESIDED 1.6MM	
T8-24D207N-IV4	46-40335W-12XG	PIN BASE PHD 12PIN 2.0MM FEMALE ST	P801
T8-24D207N-IV4	47-PWS044-XX0	SOCKET POWER SUPPLY ST N CK-DC-20-06-03R	P851
T8-24D207N-IV4	T8-24D207N-IV4ST	ASS'Y - INVERTER PARTS	
T8-24D207N-IV4ST	09-0B1100-STX	D-BR, SMD 100V 1A 0.79V 30A 0.5MA 4NSEC 1	D801
T8-24D207N-IV4ST	12-AOD478-0BX	MOSFET-SMD N 100V 11A 2.8V 0.1520HM 2.1W	Q802
T8-24D207N-IV4ST	12-BT3904-0BX	TR-SMD NPN 40VV 200MA A 300HZ 0.25W SOT2	Q803
T8-24D207N-IV4ST	13-MP3389-EFB	IC MT23A 50V 60MA 12-STRING LED DRIVER T	U801
T8-24D207N-IV4ST	19-AB0000-JTX	RES SMD 0 OHM 1/10W +/-5% 0603	R827
T8-24D207N-IV4ST	19-AB0000-JTX	RES SMD 0 OHM 1/10W +/-5% 0603	R826
T8-24D207N-IV4ST	19-AB0000-JTX	RES SMD 0 OHM 1/10W +/-5% 0603	R825
T8-24D207N-IV4ST	19-AB0100-JTX	RES SMD 10 OHM 1/10W +/-5%	R819
T8-24D207N-IV4ST	19-AB0103-FTX	RES SMD 10K OHM 1/10W +/-1% 0603	R803
T8-24D207N-IV4ST	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R831
T8-24D207N-IV4ST	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R804
T8-24D207N-IV4ST	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R809
T8-24D207N-IV4ST	19-AB0104-JTX	SMD. RES 100K OHM 1/10W 0603	R805
T8-24D207N-IV4ST	19-AB0104-JTX	SMD. RES 100K OHM 1/10W 0603	R815
T8-24D207N-IV4ST	19-AB0104-JTX	SMD. RES 100K OHM 1/10W 0603	R807
T8-24D207N-IV4ST	19-AB0224-JTX	SMD RES 220K OHM 1/10W 0603	R830
T8-24D207N-IV4ST	19-AB0228-JT2	R-SMD 0.220HM +/-5% 1/10W 0603 RL03JR22G	R822
T8-24D207N-IV4ST	19-AB0228-JT2	R-SMD 0.220HM +/-5% 1/10W 0603 RL03JR22G	R824
T8-24D207N-IV4ST	19-AB0394-JTX	R-SMD 390K00HM 5% 1/10W 0603 -	R814
T8-24D207N-IV4ST	19-BC0564-FTX	SMD. RES 560K OHM 1/8W +/-1%	R801
T8-24D207N-IV4ST	19-CD0100-JTX	RES. MELF 10 OHM 1/4W +/-5%	R800
T8-24D207N-IV4ST	28-AB0101-JCX	CAP. CER, SMD 100PF 50.0V 0603 -	C814
T8-24D207N-IV4ST	28-AB0101-JCX	CAP. CER, SMD 100PF 50.0V 0603 -	C808
T8-24D207N-IV4ST	28-AB0101-JCX	CAP. CER, SMD 100PF 50.0V 0603 -	C813
T8-24D207N-IV4ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C801
T8-24D207N-IV4ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C810
T8-24D207N-IV4ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	R832
T8-24D207N-IV4ST	28-AB0471-JCX	CAP. CER, SMD 470POF 50.0V 0603 -	C807
T8-24D207N-IV4ST	28-AB0471-JCX	CAP. CER, SMD 470POF 50.0V 0603 -	C832
T8-24D207N-IV4ST	28-AB0471-JCX	CAP. CER, SMD 470POF 50.0V 0603 -	C822
T8-24D207N-IV4ST	28-AB0471-JCX	CAP. CER, SMD 470POF 50.0V 0603 -	C828
T8-24D207N-IV4ST	28-AC0105-KBX	SMD. CAP 16V 1UF +/-10%	C812
T8-24D207N-IV4ST	28-AD0474-KBX	0603 SMD. CAP 25V 470NF +/-10%	C811
T8-24D207N-IV4ST	28-CD0106-KBX	CAP. CER, SMD 10UF 10% 25V 5 1206 TMK316BJ	C804
T8-24D207N-IV4ST	28-DH0225-KBX	MLCC 3225 100V 2.2UF	C806
T8-24D207N-IV4ST	33-YLL220-MTX	COIL. 22U NR8040T220M	L802
T8-24D207N-IV4ST	46-40395W-06SG	CONN SMT 6 1.25MM FEMALE WH R	P802
T8-24D207N-IV4ST	19-AB0563-FTX	SMD. RES 56K OHM 1/10W +/-1%	R812
T8-24D207N-IV4ST	19-AB0000-JTX	RES SMD 0 OHM 1/10W +/-5% 0603	R828
H4-YD50S7S-AG61	T8-24D507S-BS2	ASS'Y - BASE	
T8-24D507S-BS2	63-B40150-AB4G	SCREW-ST 4MM 15MM ISO 62 R=Y	
T8-24D507S-BS2	89-604830-JZ0	PROTECTING LABEL 50mm	
T8-24D507S-BS2	T8-24D507S-BS2Z	ASS'Y - BASE (ART)	

T8-24D507S-BS2Z	56-940700-0HQ6Q	DEC KEY CLUSTER 29M76S -- 01 6M 00 R=N	
T8-24D507S-BS2Z	68-996730-000	RAW STAND GLASS -- 00 00 00 24D50 R=Y	
T8-24D507S-BS2	59-SH1505-000	RAW BUFFER BUFFER 0 0 R=Y	
T8-24D507S-BS2	68-500320-000	RAW STAND GLASS -- 00 00 00 R=N	
H4-YD50S7S-AG61	T8-24D507S-FC2	ASS'Y - FRONT CABINET	
T8-24D507S-FC2	46-FF027T-06P01G	WIRE MT23A KEYLINE 270MM 6 PH PH 2MM UL2	FOR FB PC
T8-24D507S-FC2	54-314740-0X0	CRT FIBRE SHEET (22MMX22MMX0.8MM)	FOR TOP C
T8-24D507S-FC2	54-463040-000	SPONGE SQUARE BK R=Y	STICK ON
T8-24D507S-FC2	54-463050-000	SPONGE SQUARE BK R=Y	STICK ON
T8-24D507S-FC2	89-BX8915-JZOU	SUNDRIES-TAPE ADHESIVE 18MMX55M --	FOR KEY B
T8-24D507S-FC2	89-BX8915-JZOU	SUNDRIES-TAPE ADHESIVE 18MMX55M --	FOR LVDS
T8-24D507S-FC2	89-BX8915-JZOU	SUNDRIES-TAPE ADHESIVE 18MMX55M --	FOR BACK
T8-24D507S-FC2	T8-24D507S-FC2Z	ASS'Y - FRONT CABINET ART	
T8-24D507S-FC2Z	56-937910-0HA6R	DEC KEY L19S10 BLACK R=N	
T8-24D507S-FC2Z	56-940310-0HN6R	DEC KEY CLUSTER 29M76S -- 01 6M 00 R=N	
T8-24D507S-FC2Z	56-940320-0HC5Z	DEC KEY CLUSTER 29M76S -- 01 6M 00 R=N	
T8-24D507S-FC2Z	67-L71622-4N0	RAW INLET TCL LOGO -- 01 00 R=Y	
T8-24D507S-FC2Z	55-940200-0HX9A	DEC FRONT PANEL -- 01 9A 00 R=N	
T8-24D507S-FC2	46-AB250D-CMODG	WIRE 40PIN LVDS WIRE UL1571#28 PHDK-2*20	FOR MA. BD
T8-24D507S-FC2	54-EM2017-0U2	SPONGE STRIPE -- 30MM 17MM 20MM R=Y	PASTE MAI
T8-24D507S-FC2	89-604792-JZK	SUNDRIES-FILM SELF ADHESIVE FILM	
T8-24D507S-FC2	89-604830-JZ0	PROTECTING LABEL 50mm	
H4-YD50S7S-AG61	T8-24D507S-RC3	ASS'Y - FRONT CABINET	
T8-24D507S-RC3	46-LL015L-12X02G	WIRE CONNECTING WIRE FOR PSU. 150MM 12PI	FOR DR. BD
T8-24D507S-RC3	59-940760-000	RAW PAD SILICA GEL 01 00 00 R=Y	STICK ON
T8-24D507S-RC3	63-B3008T-BF4G	SCREW-ST 3MM 8MM ISO R=Y	MTG CHASS
T8-24D507S-RC3	63-B3012T-BF5G	SCREW-ST 3MM 12MM ISO 19 R=Y	MTG RC TC
T8-24D507S-RC3	63-B3012T-BF5G	SCREW-ST 3MM 12MM ISO 19 R=Y	FOR REAR
T8-24D507S-RC3	63-B40100-AB4G	SCREW-ST 4MM 10MM 53 R=Y	MOUNT VES
T8-24D507S-RC3	63-B4015T-BF5G	SCREW-ST 4MM 15MM ISO 19 R=Y	FOR BASE
T8-24D507S-RC3	63-F30100-BT3G	SCREW-ST 3MM 10MM ISO 65 0 0 R=Y	MTG RC AV
T8-24D507S-RC3	T8-24D507S-RC3Z	ASS'Y - REAR CABINET ART	
T8-24D507S-RC3Z	55-940210-0HL6R	DEC BACKCOVER --- -- 01 1A 00 R=N	
T8-24D507S-RC3Z	56-940300-3HN6R	DEC KEY --- -- 01 6M 00 R=N	
T8-24D507S-RC3Z	56-940340-1HN6R	DEC KEY CLUSTER 29M76S -- 01 6M 00 R=N	
T8-24D507S-RC3Z	58-931690-2UI9A	PRI OVERLAY -- -- 01 00 00 R=Y	
T8-24D507S-RC3Z	62-839350-0HG6R	TV PAI HOLDER VESA BOSS -- 00 00 R=N	MOUNT VES
T8-24D507S-RC3Z	67-913990-3G0	RAW SHIELDING -- -- 00 00 00 R=Y	
T8-24D507S-RC3	42-30908F-XC0GB	SPEAKER 8OHM 8W 80 320HZ RECTANGLE 27MMX	
T8-24D507S-RC3	59-001685-000	WASHER 6MM 10MM 3MM ISO R=Y	
T8-24D507S-RC3			喇叭线认
H4-YD50S7S-AG61	T8-24LA7S-MA11	ASS'Y - MAIN BD	
T8-24LA7S-MA11	07-6MSJF3-TF1G	TUNER D/A NTSC 6MHZ F CONNECTOR BACK XF-	U1
T8-24LA7S-MA11	13-M24C32-MNB2	IC \ M24C32-WMN6P	U205 (CPB)
T8-24LA7S-MA11	35-392170-00X	FERR.COIL BF-I35050C-683	L814
T8-24LA7S-MA11	40-OMS09A-MAC2HG	PCB UR 150*200MM 1PC DOUBLESIDED 1.6MM 1	
T8-24LA7S-MA11	45-OSC24M-0Y2	CRYSTAL 24MHZ	X1
T8-24LA7S-MA11	46-33079W-04XG	PIN BASE *4 TJC3-4A	P602
T8-24LA7S-MA11	46-35199W-06XG	PIN BASE PH-6A6PINPITCH-2.0MM R=Y	P204
T8-24LA7S-MA11	46-40335W-12XG	PIN BASE PHD 12PIN 2.0MM FEMALE ST	P802
T8-24LA7S-MA11	47-RCA249-XX2G	SOCKET-RCA 3 RD-WH-YE R	P902
T8-24LA7S-MA11	47-RCA255-HX2G	SOCKET-RCA N GN-BL-RD-WH-RD 5 ST N AV-3.	P905
T8-24LA7S-MA11	47-RCA275-XX0G	SOCKET-RCA 3 RD-WH-YE ST	P903
T8-24LA7S-MA11	47-RCA276-XX0G	SOCKET-RCA 1 BK ST	P904

T8-24LA7S-MA11	47-RCA286-XX0G	SOCKET-RCA N RD-WH-YE 3 ST N AV-3.2-3L19	P901
T8-24LA7S-MA11	47-USB011-XX0	SOCKET USB R N TCL3149	P907
T8-24LA7S-MA11	47-VGA019-XX1	SOCKET VGA SOCKET ST NO 1178-015-20X-311	P909
T8-24LA7S-MA11	67-387190-0A0	HEAT SINK	FOR U201
T8-24LA7S-MA11	46-40338W-40XG	CONN PHD 40 2.0MM FEMALE R	P201
T8-24LA7S-MA11	13-W25Q32-FVB	IC MAIN MEMORY WINBOND	U202(CPP)
T8-24LA7S-MA11	T8-24LA7S-MA11ST	ASS'Y - MAIN BD	
T8-24LA7S-MA11ST	09-0BAV99-ATX	D,SMD 70.0V 200MIO A 855MIOV 4N 0.25W SO	D201
T8-24LA7S-MA11ST	09-0CMS06-STX	D-BR,SMD 30V 2A 0.37V M-FLAT CMS06	D901
T8-24LA7S-MA11ST	09-BAT54C-STX	SMD.DIODE BAT54C+215	D902
T8-24LA7S-MA11ST	09-FM4001-ETX	SMD.DIODE FM4001	D801
T8-24LA7S-MA11ST	09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	D601
T8-24LA7S-MA11ST	09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	D202
T8-24LA7S-MA11ST	09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	D603
T8-24LA7S-MA11ST	09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	D602
T8-24LA7S-MA11ST	09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	D802
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q204
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q807
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q602
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q904
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T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q806
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q801
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q101
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q805
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q102
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q905
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q906
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q902
T8-24LA7S-MA11ST	12-BT3904-OBX	TR-SMD NPN 40V 200MA A 300HZ 0.25W SOT2	Q804
T8-24LA7S-MA11ST	12-BT3906-OBX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIOV S	Q201
T8-24LA7S-MA11ST	12-BT3906-OBX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIOV S	Q104
T8-24LA7S-MA11ST	12-BT3906-OBX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIOV S	Q601
T8-24LA7S-MA11ST	12-BT3906-OBX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIOV S	Q901
T8-24LA7S-MA11ST	12-BT3906-OBX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIOV S	Q205
T8-24LA7S-MA11ST	12-BT3906-OBX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIOV S	Q103
T8-24LA7S-MA11ST	12-MV65XP-OBX	MOSFET-SMD P 20V 3.9A 1.92W SOT23 PMV65X	Q202
T8-24LA7S-MA11ST	12-MV65XP-OBX	MOSFET-SMD P 20V 3.9A 1.92W SOT23 PMV65X	Q802
T8-24LA7S-MA11ST	13-AS1117-ADB	IC AS1117-ADX	U808
T8-24LA7S-MA11ST	13-AS1117-ADB	IC AS1117-ADX	U807
T8-24LA7S-MA11ST	13-DRK4B1-H9B	IC DDR3 K4B1G1646G-BCH900D	U203
T8-24LA7S-MA11ST	13-MP1494-DJB	IC DC-DC CONTROL MP1494DJ	U802
T8-24LA7S-MA11ST	13-MP1494-DJB	IC DC-DC CONTROL MP1494DJ	U803
T8-24LA7S-MA11ST	13-MP1494-DJB	IC DC-DC CONTROL MP1494DJ	U804
T8-24LA7S-MA11ST	13-STA380-BWB	IC AUDIO AMP STA380BW	U601
T8-24LA7S-MA11ST	13-T90527-CUB	IC SPEC ISDB-T DECODE TOSHIBA	U501
T8-24LA7S-MA11ST	19-AB0000-FTX	SMD.RES 0 OHM 1/10W +/-1% 0603	R856
T8-24LA7S-MA11ST	19-AB0000-JTX	RES SMD 0 OHM 1/10W +/-5% 0603	R242
T8-24LA7S-MA11ST	19-AB0000-JTX	RES SMD 0 OHM 1/10W +/-5% 0603	R828
T8-24LA7S-MA11ST	19-AB0101-FTX	RES SMD 100 OHM 1/10W +/-1% 0603	R852
T8-24LA7S-MA11ST	19-AB0101-FTX	RES SMD 100 OHM 1/10W +/-1% 0603	R845
T8-24LA7S-MA11ST	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R630
T8-24LA7S-MA11ST	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R631
T8-24LA7S-MA11ST	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R626

T8-24LA7S-MA11ST	19-AB0104-JTX	SMD. RES 100K OHM 1/10W 0603	R627
T8-24LA7S-MA11ST	19-AB0123-FTX	SMD. RES 12K OHM 1/10W +/-1% 0603	R853
T8-24LA7S-MA11ST	19-AB0220-JTX	SMD RES 22 OHM 1/10W 0603	R618
T8-24LA7S-MA11ST	19-AB0220-JTX	SMD RES 22 OHM 1/10W 0603	R619
T8-24LA7S-MA11ST	19-AB0221-JTX	RES SMD 220 OHM 1/10W 0603	R624
T8-24LA7S-MA11ST	19-AB0303-FTX	SMD.RES 30K OHM 1/10W +/-1%	R821
T8-24LA7S-MA11ST	19-AB0393-FTX	SMD.RES 39K OHM 1/10W +/-1%	R851
T8-24LA7S-MA11ST	19-AB0393-FTX	SMD.RES 39K OHM 1/10W +/-1%	R844
T8-24LA7S-MA11ST	19-AB0563-JTX	SMD. RES 56K OHM 1/10W +/-5%	R625
T8-24LA7S-MA11ST	19-AB0569-JTX	0603 RES. SMD 5.6 OHM 1/16W +/-5%	R623
T8-24LA7S-MA11ST	19-AB0569-JTX	0603 RES. SMD 5.6 OHM 1/16W +/-5%	R622
T8-24LA7S-MA11ST	19-AB0569-JTX	0603 RES. SMD 5.6 OHM 1/16W +/-5%	R621
T8-24LA7S-MA11ST	19-AB0569-JTX	0603 RES. SMD 5.6 OHM 1/16W +/-5%	R620
T8-24LA7S-MA11ST	19-AB0682-FTX	SMD.RES 6.8K OHM 1/10W +/-1% 0603	R846
T8-24LA7S-MA11ST	19-AB0683-FTX	SMD.RES 68K OHM 1/10W +/-1%	R825
T8-24LA7S-MA11ST	19-AB0753-JTX	SMD. RES 75K OHM 1/10W 0603	R919
T8-24LA7S-MA11ST	19-CD0000-JTX	RES.SMD 00HM1/1/4W+/-5%	R871
T8-24LA7S-MA11ST	19-CD0000-JTX	RES.SMD 00HM1/1/4W+/-5%	R872
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R216
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R995
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R262
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R997
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R999
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R612
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R206
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R858
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R859
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R508
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R855
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R925
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R615
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R994
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R213
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R211
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R506
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R505
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R837
T8-24LA7S-MA11ST	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R982
T8-24LA7S-MA11ST	19-GA0100-JTX	SMD. RES 10 OHM 1/16W +/-5%	R966
T8-24LA7S-MA11ST	19-GA0100-JTX	SMD. RES 10 OHM 1/16W +/-5%	R968
T8-24LA7S-MA11ST	19-GA0100-JTX	SMD. RES 10 OHM 1/16W +/-5%	R965
T8-24LA7S-MA11ST	19-GA0100-JTX	SMD. RES 10 OHM 1/16W +/-5%	R964
T8-24LA7S-MA11ST	19-GA0100-JTX	SMD. RES 10 OHM 1/16W +/-5%	R967
T8-24LA7S-MA11ST	19-GA0100-JTX	SMD. RES 10 OHM 1/16W +/-5%	R962
T8-24LA7S-MA11ST	19-GA0100-JTX	SMD. RES 10 OHM 1/16W +/-5%	R963
T8-24LA7S-MA11ST	19-GA0100-JTX	SMD. RES 10 OHM 1/16W +/-5%	R969
T8-24LA7S-MA11ST	19-GA0101-FTX	SMD.RES 100 OHM 1/16W +/-1%	R839
T8-24LA7S-MA11ST	19-GA0101-FTX	SMD.RES 100 OHM 1/16W +/-1%	R820
T8-24LA7S-MA11ST	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R975
T8-24LA7S-MA11ST	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R504
T8-24LA7S-MA11ST	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R602
T8-24LA7S-MA11ST	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R281
T8-24LA7S-MA11ST	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R923
T8-24LA7S-MA11ST	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R232

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T8-24LA7S-MA11ST	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R903
T8-24LA7S-MA11ST	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R605
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R220
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R109
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R115
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R111
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R998
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R275
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R996
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R816
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R847
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R840
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R209
T8-24LA7S-MA11ST	19-GA0104-JTX	SMD. RES 100K OHM 1/16W +/-5%	R207
T8-24LA7S-MA11ST	19-GA0105-JTX	SMD. RES 1M OHM 1/16W +/-5%	R205
T8-24LA7S-MA11ST	19-GA0122-JTX	SMD. RES 1200 OHM 1/16W +/-5%	R513
T8-24LA7S-MA11ST	19-GA0123-JTX	SMD. RES 12K OHM 1/16W +/-5%	R933
T8-24LA7S-MA11ST	19-GA0123-JTX	SMD. RES 12K OHM 1/16W +/-5%	R904
T8-24LA7S-MA11ST	19-GA0123-JTX	SMD. RES 12K OHM 1/16W +/-5%	R912
T8-24LA7S-MA11ST	19-GA0123-JTX	SMD. RES 12K OHM 1/16W +/-5%	R910
T8-24LA7S-MA11ST	19-GA0123-JTX	SMD. RES 12K OHM 1/16W +/-5%	R935
T8-24LA7S-MA11ST	19-GA0123-JTX	SMD. RES 12K OHM 1/16W +/-5%	R906
T8-24LA7S-MA11ST	19-GA0153-JTX	R-SMD 15K00HM 5% 1/16W 0402 -	R514
T8-24LA7S-MA11ST	19-GA0154-JTX	0402 CHIP RESISTORS 1/16W 150K OHM ±5%	R918
T8-24LA7S-MA11ST	19-GA0201-JTX	SMD. RES 200 OHM 1/16W +/-5% 0402	R959
T8-24LA7S-MA11ST	19-GA0220-FTX	SMD. RES 22 OHM 1/16W +/-1%	R810
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R524
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R522
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R518
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R520
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R243
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R203
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R202
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R204
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R523
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R519
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R201
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R517
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R515
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R245
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R244
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R516
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R521
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R525
T8-24LA7S-MA11ST	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R246
T8-24LA7S-MA11ST	19-GA0221-JTX	SMD. RES 220 OHM 1/16W +/-5%	R915
T8-24LA7S-MA11ST	19-GA0221-JTX	SMD. RES 220 OHM 1/16W +/-5%	R917
T8-24LA7S-MA11ST	19-GA0222-JTX	SMD. RES 2.2K OHM 1/16W +/-5%	R806
T8-24LA7S-MA11ST	19-GA0222-JTX	SMD. RES 2.2K OHM 1/16W +/-5%	R815
T8-24LA7S-MA11ST	19-GA0222-JTX	SMD. RES 2.2K OHM 1/16W +/-5%	R814
T8-24LA7S-MA11ST	19-GA0222-JTX	SMD. RES 2.2K OHM 1/16W +/-5%	R236
T8-24LA7S-MA11ST	19-GA0222-JTX	SMD. RES 2.2K OHM 1/16W +/-5%	R813
T8-24LA7S-MA11ST	19-GA0223-JTX	SMD. RES 22K OHM 1/16W +/-5%	R805
T8-24LA7S-MA11ST	19-GA0224-JTX	R-SMD 220K00HM 5% 1/16W 0402 -	R818

T8-24LA7S-MA11ST	19-GA0241-FTX	R-SMD 240OHM +/-1% 1/16W 0402 RC02F0241	R226
T8-24LA7S-MA11ST	19-GA0272-JTX	R-SMD 2K70HM 5% 1/16W 0402 -	R233
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R926
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R985
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R606
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R607
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R987
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R279
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R902
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R970
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R971
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R280
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R928
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R921
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R908
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R983
T8-24LA7S-MA11ST	19-GA0331-JTX	SMD. RES 330 OHM 1/16W +/-5%	R90D
T8-24LA7S-MA11ST	19-GA0331-JTX	SMD. RES 330 OHM 1/16W +/-5%	R922
T8-24LA7S-MA11ST	19-GA0331-JTX	SMD. RES 330 OHM 1/16W +/-5%	R916
T8-24LA7S-MA11ST	19-GA0331-JTX	SMD. RES 330 OHM 1/16W +/-5%	R90B
T8-24LA7S-MA11ST	19-GA0333-JTX	SMD. RES 33K OHM 1/16W +/-5%	R860
T8-24LA7S-MA11ST	19-GA0333-JTX	SMD. RES 33K OHM 1/16W +/-5%	R857
T8-24LA7S-MA11ST	19-GA0471-FTX	SMD. RES 470 OHM 1/16W +/-1%	R838
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R501
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R285
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R989
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R512
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R284
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R511
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R225
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R283
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R824
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R104
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R988
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R105
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R215
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R290
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R811
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R227
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R804
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R831
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R823
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R835
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R274
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R223
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R229
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R240
T8-24LA7S-MA11ST	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R282
T8-24LA7S-MA11ST	19-GA0474-JTX	R-SMD 470K0OHM 5% 1/16W 0402 -	R807
T8-24LA7S-MA11ST	19-GA0474-JTX	R-SMD 470K0OHM 5% 1/16W 0402 -	R277
T8-24LA7S-MA11ST	19-GA0479-JTX	0402 CHIP RESISTORS 1/16W 4.7 OHM \pm 5%	R939
T8-24LA7S-MA11ST	19-GA0479-JTX	0402 CHIP RESISTORS 1/16W 4.7 OHM \pm 5%	R938
T8-24LA7S-MA11ST	19-GA0511-JTX	SMD. RES 0402 1/16W 510 OHM +/-5%	R108
T8-24LA7S-MA11ST	19-GA0560-JTX	R-SMD 560HM +/-5% 1/16W 0402 0402	R230

T8-24LA7S-MA11ST	19-GA0560-JTX	R-SMD 560HM +/-5% 1/16W 0402 0402	R228
T8-24LA7S-MA11ST	19-GA0680-JTX	SMD. RES 68 OHM 1/16W +/-5%	R103
T8-24LA7S-MA11ST	19-GA0680-JTX	SMD. RES 68 OHM 1/16W +/-5%	R991
T8-24LA7S-MA11ST	19-GA0680-JTX	SMD. RES 68 OHM 1/16W +/-5%	R102
T8-24LA7S-MA11ST	19-GA0680-JTX	SMD. RES 68 OHM 1/16W +/-5%	R929
T8-24LA7S-MA11ST	19-GA0680-JTX	SMD. RES 68 OHM 1/16W +/-5%	R930
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R920
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R984
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R981
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R914
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R913
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R986
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R927
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R924
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R901
T8-24LA7S-MA11ST	19-GA0750-JTX	SMD. RES 75 OHM 1/16W +/-5%	R907
T8-24LA7S-MA11ST	19-GA0823-JTX	R-SMD 82K00HM 5% 1/16W 0402 -	R842
T8-24LA7S-MA11ST	19-GA0823-JTX	R-SMD 82K00HM 5% 1/16W 0402 -	R848
T8-24LA7S-MA11ST	19-GA0823-JTX	R-SMD 82K00HM 5% 1/16W 0402 -	R841
T8-24LA7S-MA11ST	19-GA0823-JTX	R-SMD 82K00HM 5% 1/16W 0402 -	R817
T8-24LA7S-MA11ST	19-GA0823-JTX	R-SMD 82K00HM 5% 1/16W 0402 -	R854
T8-24LA7S-MA11ST	19-GA0823-JTX	R-SMD 82K00HM 5% 1/16W 0402 -	R849
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM219
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM201
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM203
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM205
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM209
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM218
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM213
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM216
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM214
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM217
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM204
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM207
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM206
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM212
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM208
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM210
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM211
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM222
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM221
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM220
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM215
T8-24LA7S-MA11ST	23-D08220-JBX	NETWORK RES. 22 OHM 1/16W +/-5%	RM202
T8-24LA7S-MA11ST	28-AA0475-KBX	CAP. CER, SMD 4.7UF 10V 0603 CL10B475KP8NN	C202
T8-24LA7S-MA11ST	28-AA0475-KBX	CAP. CER, SMD 4.7UF 10V 0603 CL10B475KP8NN	C101
T8-24LA7S-MA11ST	28-AB0101-JCX	CAP. CER, SMD 100PF 50.0V 0603 -	C604
T8-24LA7S-MA11ST	28-AB0101-JCX	CAP. CER, SMD 100PF 50.0V 0603 -	C603
T8-24LA7S-MA11ST	28-AB0101-JCX	CAP. CER, SMD 100PF 50.0V 0603 -	C605
T8-24LA7S-MA11ST	28-AB0102-KBX	CAP. CER, SMD 1NF 50.0V 0603 - +/-10% R=Y	C638
T8-24LA7S-MA11ST	28-AB0102-KBX	CAP. CER, SMD 1NF 50.0V 0603 - +/-10% R=Y	C630
T8-24LA7S-MA11ST	28-AB0102-KBX	CAP. CER, SMD 1NF 50.0V 0603 - +/-10% R=Y	C877
T8-24LA7S-MA11ST	28-AB0102-KBX	CAP. CER, SMD 1NF 50.0V 0603 - +/-10% R=Y	C230
T8-24LA7S-MA11ST	28-AB0102-KBX	CAP. CER, SMD 1NF 50.0V 0603 - +/-10% R=Y	C640

T8-24LA7S-MA11ST	28-AB0102-KBX	CAP. CER, SMD 1NF 50.0V 0603 - +/-10% R=Y	C631
T8-24LA7S-MA11ST	28-AB0103-ZFX	CAP. CER, SMD 10NF 50.0V 0603 - +80/-20% R	C643
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C624
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C616
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C634
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C622
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C621
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C602
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C610
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C608
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C623
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C635
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C632
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C633
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C615
T8-24LA7S-MA11ST	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C612
T8-24LA7S-MA11ST	28-AB0331-KBX	CAP. CER, SMD 330P0F 50.0V 0603 -	C620
T8-24LA7S-MA11ST	28-AB0331-KBX	CAP. CER, SMD 330P0F 50.0V 0603 -	C619
T8-24LA7S-MA11ST	28-AC0105-KBX	SMD. CAP 16V 1UF +/-10%	C817
T8-24LA7S-MA11ST	28-AC0105-KBX	SMD. CAP 16V 1UF +/-10%	C229
T8-24LA7S-MA11ST	28-AC0105-KBX	SMD. CAP 16V 1UF +/-10%	C828
T8-24LA7S-MA11ST	28-AC0105-KBX	SMD. CAP 16V 1UF +/-10%	C814
T8-24LA7S-MA11ST	28-AC0105-KBX	SMD. CAP 16V 1UF +/-10%	C806
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C257
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C256
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C206
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C926
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C906
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C910
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C237
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C914
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C949
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C904
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C281
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C947
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C214
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C247
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C242
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C924
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C911
T8-24LA7S-MA11ST	28-AC0225-KBX	SMD. CAP 2.2UF +/-10% 16V SP (188605643)	C254
T8-24LA7S-MA11ST	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C812
T8-24LA7S-MA11ST	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C825
T8-24LA7S-MA11ST	28-BB0105-KBX	CAP. CER, SMD 1UF 10% 50V 0.2 0805 CL21B10	C609
T8-24LA7S-MA11ST	28-BB0105-KBX	CAP. CER, SMD 1UF 10% 50V 0.2 0805 CL21B10	C611
T8-24LA7S-MA11ST	28-BB0105-ZFX	CAP. CER, SMD 1U0F 50V DCV 0805 -	C655
T8-24LA7S-MA11ST	28-BB0105-ZFX	CAP. CER, SMD 1U0F 50V DCV 0805 -	C642
T8-24LA7S-MA11ST	28-BB0105-ZFX	CAP. CER, SMD 1U0F 50V DCV 0805 -	C113
T8-24LA7S-MA11ST	28-BB0224-KBX	CAP. CER, SMD 220N0F 50V DCV 0805 -	C625
T8-24LA7S-MA11ST	28-BB0224-KBX	CAP. CER, SMD 220N0F 50V DCV 0805 -	C636
T8-24LA7S-MA11ST	28-BC0106-KBX	CAP. CER, SMD 10UF 16V 0805 08053R106K160B	C208
T8-24LA7S-MA11ST	28-BC0225-KBX	SMD. CAP. 2.2UF 16V +/-10%	C231
T8-24LA7S-MA11ST	28-BC0225-KBX	SMD. CAP. 2.2UF 16V +/-10%	C601
T8-24LA7S-MA11ST	28-BF0226-MBX	CAP. CER, SMD 22UF 6.3V -8-5 -	C833

T8-24LA7S-MA11ST	28-HA0105-KBX	MLCC 1UF +/-10% 10V B 1005	C528
T8-24LA7S-MA11ST	28-HA0105-KBX	MLCC 1UF +/-10% 10V B 1005	C211
T8-24LA7S-MA11ST	28-HA0105-KBX	MLCC 1UF +/-10% 10V B 1005	C524
T8-24LA7S-MA11ST	28-HA0105-KBX	MLCC 1UF +/-10% 10V B 1005	C530
T8-24LA7S-MA11ST	28-HA0105-KBX	MLCC 1UF +/-10% 10V B 1005	C520
T8-24LA7S-MA11ST	28-HA0105-KBX	MLCC 1UF +/-10% 10V B 1005	C518
T8-24LA7S-MA11ST	28-HB0100-JCX	CAP. CER, SMD 10PF 50V 0402 - +/-5% R=Y	C503
T8-24LA7S-MA11ST	28-HB0100-JCX	CAP. CER, SMD 10PF 50V 0402 - +/-5% R=Y	C504
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C212
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C837
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C917
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C280
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C948
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C950
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C207
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C221
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C839
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C838
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C940
T8-24LA7S-MA11ST	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C278
T8-24LA7S-MA11ST	28-HB0150-JCX	SMD. CAP 15PF 50V +/-5%	C835
T8-24LA7S-MA11ST	28-HB0150-JCX	SMD. CAP 15PF 50V +/-5%	C810
T8-24LA7S-MA11ST	28-HB0150-JCX	SMD. CAP 15PF 50V +/-5%	C836
T8-24LA7S-MA11ST	28-HB0200-JCX	CAP. CER, SMD 20PF 5% 50V 0.025 0402 CL05	C204
T8-24LA7S-MA11ST	28-HB0200-JCX	CAP. CER, SMD 20PF 5% 50V 0.025 0402 CL05	C201
T8-24LA7S-MA11ST	28-HB0220-JCX	CAP. CER, SMD 22P0F 50V DCV 0402 -	C617
T8-24LA7S-MA11ST	28-HB0220-JCX	CAP. CER, SMD 22P0F 50V DCV 0402 -	C104
T8-24LA7S-MA11ST	28-HB0220-JCX	CAP. CER, SMD 22P0F 50V DCV 0402 -	C618
T8-24LA7S-MA11ST	28-HB0220-JCX	CAP. CER, SMD 22P0F 50V DCV 0402 -	C105
T8-24LA7S-MA11ST	28-HB0221-KBX	SMD. CAP 220PF 50V +/-10%	C927
T8-24LA7S-MA11ST	28-HB0221-KBX	SMD. CAP 220PF 50V +/-10%	C925
T8-24LA7S-MA11ST	28-HB0330-JCX	CAP. CER, SMD 33PF 50V DCV 0402 -	C107
T8-24LA7S-MA11ST	28-HB0390-JCX	CAPACITORS 0402 50V 39P ±5%	C220
T8-24LA7S-MA11ST	28-HB0390-JCX	CAPACITORS 0402 50V 39P ±5%	C218
T8-24LA7S-MA11ST	28-HB0470-JCX	CAP. CER, SMD 47PF 50V 0402 -	C233
T8-24LA7S-MA11ST	28-HB0470-JCX	CAP. CER, SMD 47PF 50V 0402 -	C232
T8-24LA7S-MA11ST	28-HB0560-JCX	CAP. CER, SMD 56P0F 50V DCV 0402 -	C106
T8-24LA7S-MA11ST	28-HC0103-KBX	CAP. CER, SMD 10N0F 16V DCV 0402 -	C255
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C270
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C227
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C284
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C250
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C251
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C821
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C819
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C804
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C275
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C506
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C244
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C108
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C203
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C507
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C264
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C216

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T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C869
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C521
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C519
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C205
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C103
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C831
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C513
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C102
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C951
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C259
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C505
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C245
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C243
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C868
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C239
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C265
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C515
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C225
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C808
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C915
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C253
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C246
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C272
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C241
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C841
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C509
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C263
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C260
T8-24LA7S-MA11ST	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C276
T8-24LA7S-MA11ST	28-HC0105-KBX	CAP. CER, SMD 1UF 10% 16V ' ' 0402 CL05 R=Y	C807
T8-24LA7S-MA11ST	28-HC0223-KBX	CAP. CER, SMD 22N0F 16V DCV 0402 -	C210
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C944
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C942
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C943
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C918
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C902
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C941
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C908
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C919
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C920
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C922
T8-24LA7S-MA11ST	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C921
T8-24LA7S-MA11ST	28-RA0107-MAH	SMD. CAP 100 UF 10V +/-20%	C928
T8-24LA7S-MA11ST	28-RA0227-MAH	SMD. CAP 220 UF 10V +/-20%	C824
T8-24LA7S-MA11ST	28-RA0227-MAH	SMD. CAP 220 UF 10V +/-20%	C832
T8-24LA7S-MA11ST	28-RC0107-MAH	CAP. ELE, SMD 100U0F 16V DCV SMD -	C816
T8-24LA7S-MA11ST	28-RC0107-MAH	CAP. ELE, SMD 100U0F 16V DCV SMD -	C805
T8-24LA7S-MA11ST	28-RC0107-MAH	CAP. ELE, SMD 100U0F 16V DCV SMD -	C913
T8-24LA7S-MA11ST	28-RC0107-MAH	CAP. ELE, SMD 100U0F 16V DCV SMD -	C916
T8-24LA7S-MA11ST	28-RC0107-MAH	CAP. ELE, SMD 100U0F 16V DCV SMD -	C827
T8-24LA7S-MA11ST	28-RD0107-MAH	SMD. CAP. 100UF 25V +/-20%	C656
T8-24LA7S-MA11ST	28-RF0107-MAL1	SMD. CAP 100UF 6.3V	C873
T8-24LA7S-MA11ST	28-RF0107-MAL1	SMD. CAP 100UF 6.3V	C823
T8-24LA7S-MA11ST	28-RF0107-MAL1	SMD. CAP 100UF 6.3V	C112

T8-24LA7S-MA11ST	28-RF0107-MAL1	SMD.CAP 100UF 6.3V	C820
T8-24LA7S-MA11ST	28-RF0107-MAL1	SMD.CAP 100UF 6.3V	C875
T8-24LA7S-MA11ST	28-RF0107-MAL1	SMD.CAP 100UF 6.3V	C803
T8-24LA7S-MA11ST	28-RF0227-MAL	SMD.CAP 220UF 6.3V	C641
T8-24LA7S-MA11ST	28-RF0477-MAL	SMD.CAP 470UF 6.3V	C811
T8-24LA7S-MA11ST	33-ELN221-NTB	CHIP BEAD 220 OHM	L801
T8-24LA7S-MA11ST	33-ELN221-NTB	CHIP BEAD 220 OHM	L809
T8-24LA7S-MA11ST	33-ELN501-NTX	CHIP BEAD 500 OHM +/-25%	L101
T8-24LA7S-MA11ST	33-GLN300-NTX	CHIP BEAD 30 OHM +/-25%	L601
T8-24LA7S-MA11ST	33-GLN601-NTX	CHIP BEAD 600 OHM +/-25%	L803
T8-24LA7S-MA11ST	33-KLL109-KTX	IND-SMD 0.60HM 35 25A 0603 /	L104
T8-24LA7S-MA11ST	33-KLL109-KTX	IND-SMD 0.60HM 35 25A 0603 /	L102
T8-24LA7S-MA11ST	33-KLL229-KTX	IND-SMD 1.150HM 35 15MA 0603 /	L105
T8-24LA7S-MA11ST	33-KLL229-KTX	IND-SMD 1.150HM 35 15MA 0603 /	L106
T8-24LA7S-MA11ST	33-KLN121-NTX	CHIP BEAD 120 OHM +/-25%	L810
T8-24LA7S-MA11ST	33-KLN121-NTX	CHIP BEAD 120 OHM +/-25%	L202
T8-24LA7S-MA11ST	33-KLN121-NTX	CHIP BEAD 120 OHM +/-25%	L502
T8-24LA7S-MA11ST	33-KLN121-NTX	CHIP BEAD 120 OHM +/-25%	L503
T8-24LA7S-MA11ST	33-KLN121-NTX	CHIP BEAD 120 OHM +/-25%	L203
T8-24LA7S-MA11ST	33-KLN121-NTX	CHIP BEAD 120 OHM +/-25%	L201
T8-24LA7S-MA11ST	33-NLL100-MTX	IND-SMD 0.0460HM 40 2.5A 6*6*4.5 VLC6045	L805
T8-24LA7S-MA11ST	33-NLL100-MTX	IND-SMD 0.0460HM 40 2.5A 6*6*4.5 VLC6045	L804
T8-24LA7S-MA11ST	33-NLL100-MTX	IND-SMD 0.0460HM 40 2.5A 6*6*4.5 VLC6045	L806
T8-24LA7S-MA11ST	33-NLL220-MTX	IND-SMD 0.10HM 40 1.7A SMD VLC6045T	L603
T8-24LA7S-MA11ST	33-NLL220-MTX	IND-SMD 0.10HM 40 1.7A SMD VLC6045T	L602
T8-24LA7S-MA11ST	33-NLL220-MTX	IND-SMD 0.10HM 40 1.7A SMD VLC6045T	L605
T8-24LA7S-MA11ST	33-NLL220-MTX	IND-SMD 0.10HM 40 1.7A SMD VLC6045T	L604
T8-24LA7S-MA11ST	45-OSC16M-0Y2C	CRYSTAL 16MHZ ± ±30PPM FUNDAMENTAL 9PF \	X501
T8-24LA7S-MA11ST	47-HDI010-KS0	SOCKET HDMI CONNECTOR ST N A111973-D-15-	P911
T8-24LA7S-MA11ST	13-MSD130-9BB	LCD A/DTV MSD1309BT-Z1	U201
T8-24LA7S-MA11ST	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R292
T8-24LA7S-MA11ST	19-BC0000-JTX	SMD.RES 0 OHM 1/8W +/-5%	R272
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R862
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R861
T8-24LA7S-MA11ST	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	R863
T8-24LA7S-MA11	T8-24LA7S-MA11AI	ASS'Y - MAIN BD	
T8-24LA7S-MA11AI	18-CD0109-JNX	RES. C.F. 1 OHM 1/4W +/-5%	L103
T8-24LA7S-MA11AI	25-BEB221-M1H9	CAP.ELE 85DEGREE C 220UF 20% 35V 413MA 2	C614
T8-24LA7S-MA11AI	25-BEB221-M1H9	CAP.ELE 85DEGREE C 220UF 20% 35V 413MA 2	C613
T8-24LA7S-MA11	V8-MS09ALA-LF1V01	SOFTWARE CODE	FOR U202
H4-YD50S7S-AG61	V6-PROJECT-ID016	SOFTWARE PROJECT ID: 16	
H4-YD50S7S-AG61	T8-32D507S-FB1	ASS'Y - F.CTL BD	
T8-32D507S-FB1	46-35135W-06XG	PIN BASE PH-06AW	P001
T8-32D507S-FB1	48-TAC001-XX0	TACT SWITCH	K001
T8-32D507S-FB1	48-TAC001-XX0	TACT SWITCH	K002
T8-32D507S-FB1	48-TAC001-XX0	TACT SWITCH	K003
T8-32D507S-FB1	48-TAC001-XX0	TACT SWITCH	K004
T8-32D507S-FB1	48-TAC001-XX0	TACT SWITCH	K005
T8-32D507S-FB1	48-TAC001-XX0	TACT SWITCH	K006
T8-32D507S-FB1	48-TAC001-XX0	TACT SWITCH	K007
T8-32D507S-FB1	14-LED05R-XX1	LED RED FB205	D002
T8-32D507S-FB1	40-L26D50-FBG2XG	PCB UL 150*200MM 11PC DOUBLESIDED 1.6MM	
T8-32D507S-FB1	02-IRR002-XX2	IR RECEIVER 38KHZHZ 5V TXZOZ HS0038B4	G1
T8-32D507S-FB1	T8-26D507S-FB1ST	ASS'Y - F.CTL BD	

T8-26D507S-FB1ST	09-55C5V1-DTX	SMD.DIODE BZV55-C5V1	D001
T8-26D507S-FB1ST	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R007
T8-26D507S-FB1ST	19-AB0102-JTX	RES SMD 1K OHM 1/10W 0603	R002
T8-26D507S-FB1ST	19-AB0222-JTX	RES SMD 2.2K OHM 1/10W 0603	R001
T8-26D507S-FB1ST	19-AB0271-JTX	R-SMD 270 OHM +/-5% 1/10W 0603 -	R006
T8-26D507S-FB1ST	19-AB0331-JTX	RES. SMD 330 OHM 1/10W 0603	R005
T8-26D507S-FB1ST	19-AB0470-JTX	RES SMD 47 OHM 1/10W +/-5%0603	R008
T8-26D507S-FB1ST	19-AB0471-JTX	SMD. RES 470 OHM 1/10W +/-5%	R004
T8-26D507S-FB1ST	19-AB0561-JTX	RES SMD 560 OHM 1/10W 0603	R003
T8-26D507S-FB1ST	28-AB0101-JCX	CAP.CER,SMD 100PF 50.0V 0603 -	C003
T8-26D507S-FB1ST	28-AB0103-KBX	CAP.CER,SMD 10NF 50.0V 0603 - +/-10% R=Y	C002
T8-26D507S-FB1ST	28-AC0105-ZFX	SMD. CAP 1 UF 16VDC +80%/-20%	C001
H4-YD50S7S-AG61	T8-32D50AG-SK1	ASS'Y - PACKING FOR FRONT CABINET	
T8-32D50AG-SK1	71-310880-0A06A	PRI LABEL COLOR LABEL --- R=Y	贴于包装箱
T8-32D50AG-SK1	71-310880-0A07Y	PRI LABEL COLOR LABEL --- R=Y	贴于包装箱
T8-32D50AG-SK1	71-310880-0A07Z	PRI LABEL COLOR LABEL --- R=Y	贴于包装箱
T8-32D50AG-SK1	71-BAR009-0A9	TV PRI LABEL CURRENCY -- R=N	打箱唛和唛
T8-32D50AG-SK1	74-038024-40C	PLASTIC BAG 38CMX23.5CM	包贴片用
T8-32D50AG-SK1	74-045045-40F	POLYBAG W/ANTISTATIC MAIN PCB	包IC用
T8-32D50AG-SK1	76-002135-0AP	CARTON BOX	包装物料用
T8-32D50AG-SK1	76-846680-0AS	TV RAW CARTON-BOX PHILIPS ME8 MG8 FOR PM	包装物料用
T8-32D50AG-SK1	76-947050-0ET	RAW CARTON-BOX 32U500 KRAFT PAPER 00 00	固定卡板用
T8-32D50AG-SK1	79-115985-00W	TV RAW PALLET WOOD NAT 01 00 R=Y	摆放物料用
T8-32D50AG-SK1	89-0B110A-TD0	SUNDRIES CARBON TAPE CARBON 110MMX300MMM	打箱唛和唛
T8-32D50AG-SK1	89-242080-JZ0	TV RAW FELT ADHESIVE WRINKLE -- 00 00 R=	封箱用的唛
T8-32D50AG-SK1	89-343400-000	PELLICLE (450MX450MMX0.018MM)	物料打卡用
H4-YD50S7S-AG61	T8-024D10-SK3	ASS'Y - PACKING FOR BASE&OTHERS	
T8-024D10-SK3	76-001497-0AF	CARTON BOX LWH 640X460X360MM	
T8-024D10-SK3	76-346740-01A	CARTON SHEET LWH 440X620X3MM	
H4-YD50S7S-AG61	T8-24D507S-PA3	ASS'Y - PACKING	
T8-24D507S-PA3	74-004006-12C	RAW PACKING BAG 60X40X0.08MM - R=Y	
T8-24D507S-PA3	T8-24D507S-PA3Z	ASS'Y - PACKING(ART)	
T8-24D507S-PA3	90-KQ2272-DRJU	SILICAGEL GLUE KQ2272	
T8-24D507S-PA3	51-DC0160-0QROHG	POWER CORD DTI-2P-08 DTIII-2P-01 2 1600M	
H4-YD50S7S-AG61	T8-L23D50B-SK1	ASS'Y - SKD PACKING	
T8-L23D50B-SK1	74-065065-50G	RAW BAG POLY BAG 65X65 -- 01 00 00 R=Y	
T8-L23D50B-SK1	76-023D50-0AF	RAW CARTON-BOX 23D50 K=A 01 00 00 R=Y	FOR F. CAB
T8-L23D50B-SK1	76-023D50-02A	RAW CARTON-BOX 23D50 A=A 01 00 00 R=Y	FOR F. CAB
T8-L23D50B-SK1	77-100100-6WC	RAW BAG POLY BUBBLE 100X100 -- 01 00 R=N	
H4-YD50S7S-AG61	T8-L23D50B-SK2	ASS'Y - SKD PACKING	
T8-L23D50B-SK2	76-001497-0AF	CARTON BOX LWH 640X460X360MM	
T8-L23D50B-SK2	76-346740-01A	CARTON SHEET LWH 440X620X3MM	
T8-L23D50B-SK2	74-075065-50G	RAW BAG POLY BAG 75X65 -- 01 00 00 R=Y	
T8-L23D50B-SK2	74-100100-6WC	PLASTIC BAG	
T8-L23D50B-SK2	76-023D50-0AR	RAW CARTON-BOX 23D50 K=A 01 00 00 R=Y	FOR R. CAB
T8-L23D50B-SK2	74-030050-50H	RAW BAG PLASTIC 500X300MM -- 00 00 00 R	FOR REAR
H4-YD50S7S-AG61	81-ADT1235-PW4	AC ADAPTOR 42W 3.5A 12V CLASS 2V PDN-48D	