

TCL

SERVICE MANUAL

LED32E3020-MS82CD-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:

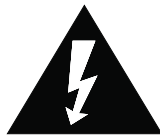
Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.



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.



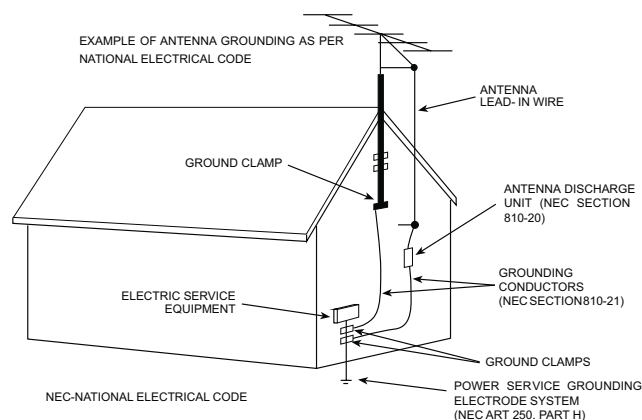
PROTECTION AND LOCATION OF YOUR SET

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.

Alignment Procedure

MS82CD-AP/LA Chassis



Version: 1.0

Release Date: 2013-04-23

PREPARED BY: HEXIAOPENG DATE: 2013-04-23

APPROVED BY: _____ DATE: _____

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History	Description of major changes	Release Date
V1.0		2013-04-23

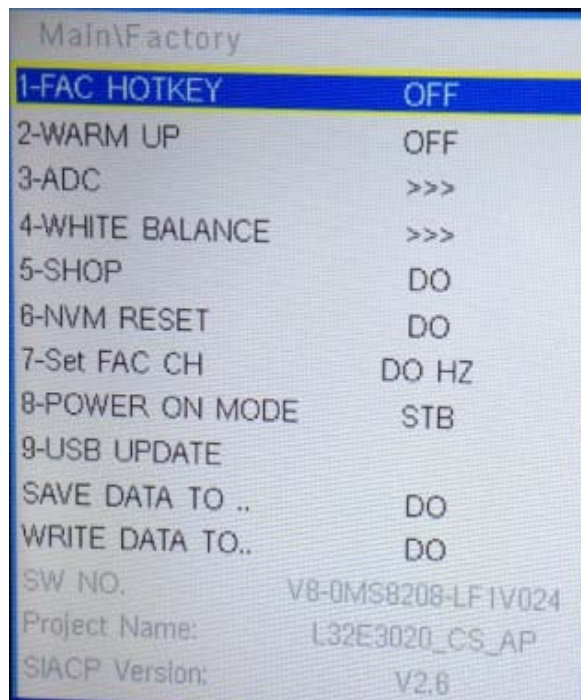
	Chassis	Model
HD	MS82CD-AP/LA	L32E3020/L32E3000/L32E3010 etc.

1. General Description

MS82CD-AP is our latest design especially for LCDTV products selling in Asia Pacific (AP) and Latin America (LA) market.. It features by its high integration, easy debugging as well as convenience in terms of maintenance. Fast software upgrade through USB disk facilitates both manufacture and after-sale service. Meantime, a variety of functions involved in Factory Main Menu can not only bring benefits for production, but also satisfy various demands of customer.

Note: Factory Main Menu (FMM) is divided into Factory Menu, Design Menu, Service Menu and Hotel Menu. Factory Menu covers all indispensable functions during manufacture such as White Balance Adjustment, ADC Calibration, USB Upgrading e.g., while the items under Design Menu is exclusively used by R&D engineer, anyone else shouldn't change the settings in the menu. When you wish to learn the product information like project ID, model name, chassis name, software version, release date, you can access to Service Menu. In addition, in Hotel Menu, we also provide a great deal of useful functions for specific applications in hotel.

2. Factory Menu



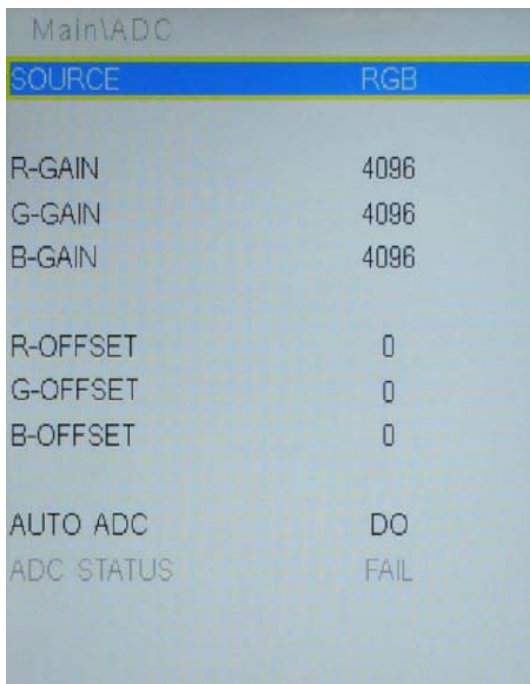
2.1 Accessing way:

- In the first place, press **Menu** button of remote control, then select **Contrast** item of **Picture** submenu. Finally, press **9, 7, 3, 5** consecutively.
- When the **FAC HOTKEY** item of **Factory Menu** is enabled (ON), press **Return** button of remote control.





2.2 Factory Menu

Factory Menu			
Name	Default	Description	Status
FAC HOTKEY	OFF	Factory Menu shortcut button switch The item must be disabled (OFF) after production	OK
WARM- UP	OFF	OFF: Normal mode. Display blue screen when no signal. Turn to automatically standby mode if keep the signal unavailable over 15 minutes. ON: Aging mode. Display snow dot when no signal. The set will not turn to standby even if the unavailability of signal;press 'function'key to exit warm-up mode.	OK
ADC	>>	ADC calibration (see details below)	OK
WHITE BALANCE	>>	White Balance Adjustment (see details below)	OK
SHOP	DO	It is crucial that the function is executed after production aim to clear information of production process, ensure user cannot access to Factory Menu after executing the item.	OK
NVM RESET	DO	Restore default value except WB and ADC data.	OK
SET FAC CH	DO HZ	Preset the channel table of factory. Option: HZ, WX, EGYPT-EL, ALGERIA e.g. To preset the channel table of certain factory, firstly, choose the corresponding factory name, then press OK button of remote control and wait until the disappearance of Factory Menu,	OK
Power On Mode	STB	ON: the set will power on after switching on power. STB: the set will remain standby status after switching on power. Last: the set will turn to the status in which it lies when last switching off. If without requirement from certain customer, by default, the Setting should be Last for MS82S-AP and STB for MS82S-LA	OK
USB UPDATE		Upgrade software. Please see details below.	OK
SAVE DATE TO...	DO	Save the settings of system information to USB	OK
WRITE DATE TO...	DO	Write the settings of system information to TV from USB	OK
SW NO.	OFF	Version information of Main Software	OK
Project Name		Product model	OK
SIACP Version		Serial port remote control protocol	OK

2.3 ADC calibration menu



ADC Menu

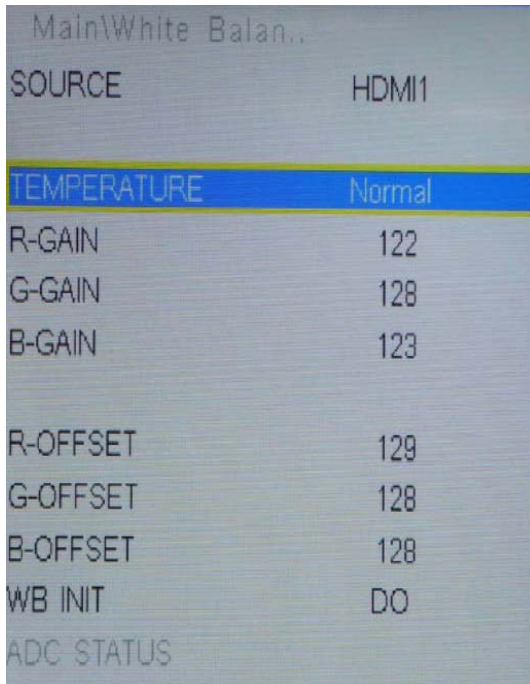
Press the   button in remote control to select certain item and   to change the value of ADC data or start ADC calibration.

Notes:

1. Only YPBPR and RGB source should be calibrated.

ADC Calibration menu			
Name	Default	Description	Status
<i>SOURCE</i>	<i>RGB</i>	Select the source you intend to ADC Calibrate. Only YPBPR and RGB are available.	<i>OK</i>
<i>R GAIN</i>	<i>4096</i>	Gain of R channel (cannot be changed after auto calibration)	<i>OK</i>
<i>G GAIN</i>	<i>4096</i>	Gain of G channel (cannot be changed after auto calibration)	<i>OK</i>
<i>B GAIN</i>	<i>4096</i>	Gain of B channel (cannot be changed after auto calibration)	<i>OK</i>
<i>R OFFSET</i>	<i>0</i>	Offset of R channel (cannot be changed after auto calibration)	<i>OK</i>
<i>B OFFSET</i>	<i>0</i>	Offset of B channel (cannot be changed after auto calibration)	<i>OK</i>
<i>G OFFSET</i>	<i>0</i>	Offset of G channel (cannot be changed after auto calibration)	<i>OK</i>
<i>AUTO ADC</i>	<i>DO</i>	Select and execute the item, ADC Calibration starts. It indicates a successful calibration if prompt "OK" is displayed. Otherwise, It is a failing calibration ("FAIL" is displayed).	<i>OK</i>
<i>ADC STATUS</i>	<i>OK</i>	Show the ADC status of YPbPr/RGB Channel. SUCCESS will be display if YPbPr/RGB Channel has been correctly calibrated. Otherwise FAIL will be displayed	<i>OK</i>

2.4 White Balance Adjustment menu

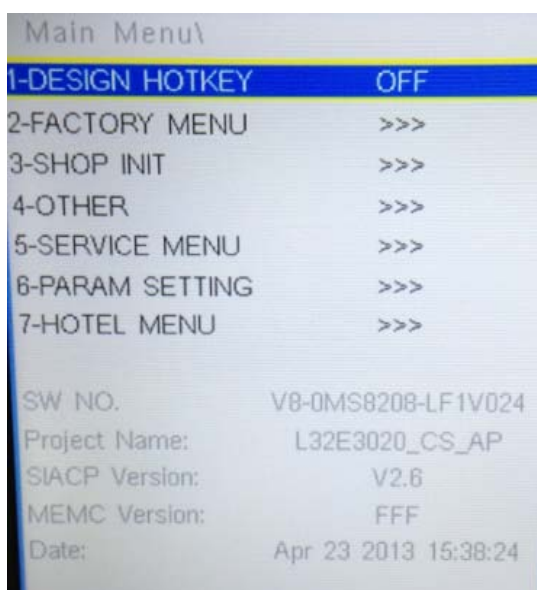


White Balance menu

Press the ▲ ▼ button in remote control to select certain item and ◀ ▶ to adjust White Balance

White Balance Adjustment menu			
Name	Default	Description	Status
Source	PC	Select the source you intend to apply WB adjustment. Only HDMI1, AV1, YPBPR, PC and should be adjusted.	OK
COLOR TEMPERATURE	Normal	Select color temperature you intend to adjust Three groups of color temperature: Normal, Warm, Cool are available for each source.	OK
R GAIN		Gain of R channel (cannot be changed after auto calibration)	OK
G GAIN		Gain of G channel (cannot be changed after auto calibration)	OK
B GAIN		Gain of B channel (cannot be changed after auto calibration)	OK
R OFFSET		Offset of R channel (cannot be changed after auto calibration)	OK
G OFFSET		Offset of G channel (cannot be changed after auto calibration)	OK
B OFFSET		Offset of B channel (cannot be changed after auto calibration)	OK
WB INIT	DO	White Balance Initalization. Before WB adjustment, this item should be executed.	OK
ADC STATUS	OK	ADC status indicator	OK

3 Factory Main Menu



3.1 Accessing way:

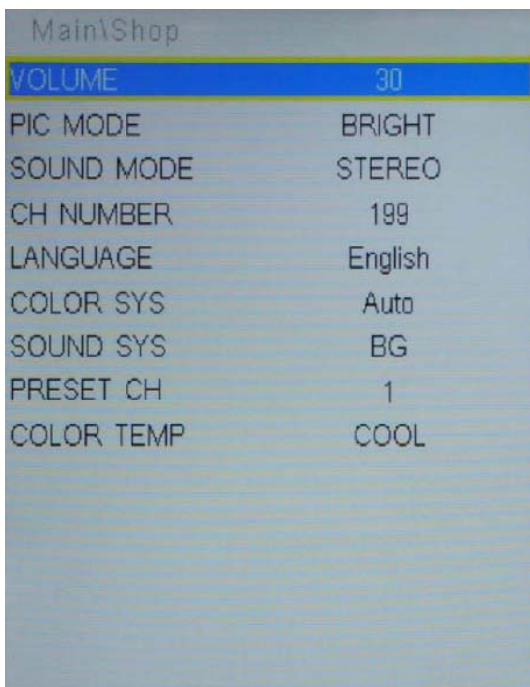
1. In the first place, press **Menu** button of remote control, then select **Contrast** item of **Picture** submenu. Finally, press **1, 9, 5, 0** consecutively.





2. When the **DESIGN HOTKEY** item of **Design Menu** is enabled (ON), press **Return** button of remote control.

Press the ▲ ▼ button in remote control to select certain item and ◀ ▶ to toggle among or execute the available options.

Main Menu			
Name	Default	Description	Status
DESIGN HOTKEY	OFF	Design Menu shortcut button switch The item must be disabled (OFF) after production	OK
FACTORY MENU	>>>	Access to Factory Menu	OK
SHOP INIT	>>>	Contain many options which can be chosen according to the requirements of customers as default settings when leave factory. See details below.	OK
OTHER	>>>	The item includes a number of functions offering convenience for R&D engineer to solve problems. It is exclusively used by R&D.	OK
SERVICE MENU	>>>	Provide many useful information for aftersale service. Please reference to SERVICE MENU submenu	OK
PARAM SETTING	>>>	Include volume, brightness, contrast, saturation, hue, sharpness, backlight, volume, overscan Adjustment etc. Please reference to PARAM SETTING submenu.	OK
HOTEL MENU	>>>	Include special functions which bring benefits to hotel management. The item is accessible only when HOTEL ENABLE item is enabled (ON).	OK
SW NO.		Version information of Main Software	OK
Project Name		Product model	OK
SIACP Version		Serial port remote control protocol	OK
MEMC Version	FFF	Version information of MEMC	NG
Date:		Release date, time	OK

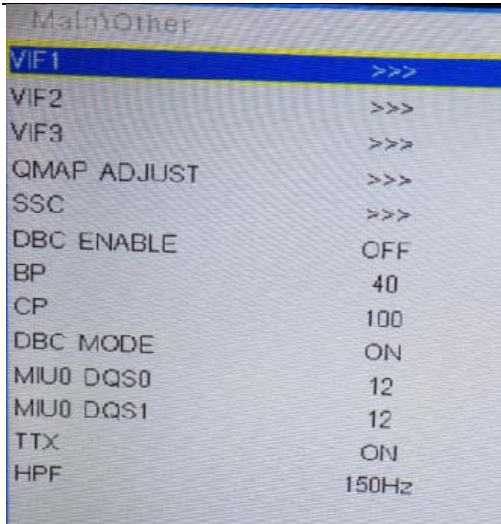
3.2 SHOP MENU



Contain many options which can be chosen according to the requirements of customers as default settings when leave factory. Press the   button in remote control to select certain item and   to toggle among the available options..

SHOP MENU			
Name	Default	Description	Status
VOLUME	30	Volume setting, 0~100 adjustable	OK
PIC MODE	STANDARD	Picture mode. Options: BRIGHT, SOFT, PERSONAL, STANDARD	OK
SOUND MODE	STEREO	Sound effects. Options: STAREO MISIC, MOVIE, NEWS	OK
CH NUMBER	199	Maximum number of accessible channel	OK
LANGUAGE	ENGLISH	AP: English, French, Vietnamese, Russian, Arabic, Farsi, Hebrew, Thai, Portuguese, Mongolian, LA: English, Portuguese, Spanish	OK
COLOR SYS	Auto	TV Color system: PAL, NTSC, SECAM.	OK
SOUND SYS	BG	TV Sound system: BG, I, DK, M	OK
PRESET CH	1	Preset channel. 0~199 optional	OK
COLOR TEMP	NORMAL	Color temperature. Option: NORMAL, WARM, COOL	OK

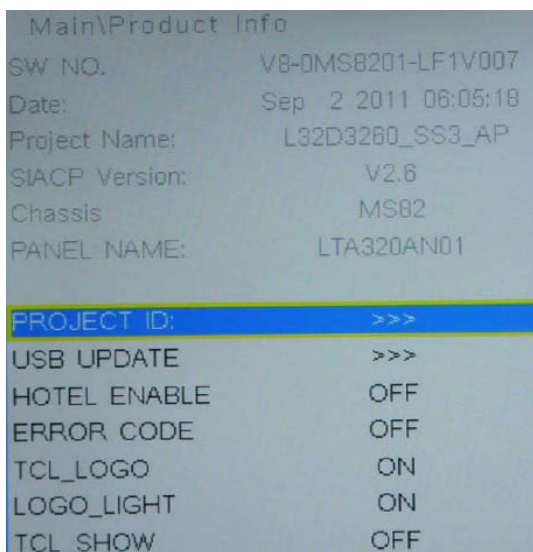
3.3 Other Menu







Press the ▲▼ button in remote control to select certain item and ◀▶ to toggle among the available options..

Other Menu			
Name	Default	Description	Status
VIF1	>>>	Exclusively used by R&D.	NG
VIF2	>>>	Exclusively used by R&D.	NG
VIF3	>>>	Exclusively used by R&D.	NG
QMAP ADJUST	>>>	Exclusively used by R&D.	NG
SSC	>>>	Spectrum Spread Control. Exclusively used by R&D.	OK
DBC ENABLE	OFF	Dynamic Backlight Enable Exclusively used by R&D.	NG
BP		Parameter of DBC Exclusively used by R&D.	NG
CP		Parameter of DBC Exclusively used by R&D.	NG
DBC MODE	ON	DBC Mode. Exclusively used by R&D.	NG
MIU0 DQS0	11	Manually adjust DQS1 phase of DDR2 Exclusively used by R&D	NG
MIU1 DQS1	11	Manually adjust DQS1 phase of DDR1 Exclusively used by R&D	NG
TTX	ON	ON: enable teletext OFF: Disable teletext LA products have no this menu.	NG
HPF		High pass filter for audio EQ	OK

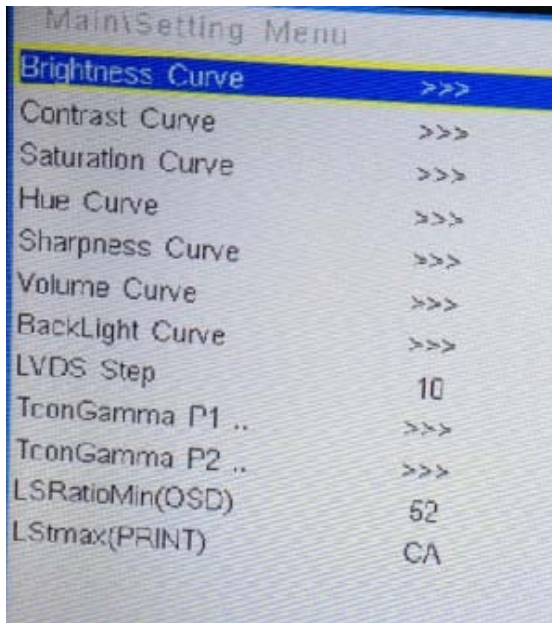
3.4 SERVICE MENU



Press the   button in remote control to select certain item and   to toggle among the available options..

SERVICE MENU (Product Info)			
Name	Default	Description	Status
SW NO.		Software virtual code of Main Software	OK
DATE		Release date, time	OK
Project Name		Model of product	OK
SIACP Version		Serial port remote control protocol	OK
Chassis	MS82	Chassis name	OK
PANEL NAME		Panel code	OK
PROJECT ID	>>>	Select project parameters through project ID.	OK
USB UPDATE	>>>	USB upgrade.	OK
HOTEL ENABLE	OFF	Switch of Hotel Menu.	OK
ERROR CODE	OFF		OK
TCL_LOGO	ON	Display TCL Logo or not. On : display, Off: not display	OK
LOGO_LIGHT	ON		NG
TCL_SHOW	ON	DEMO function ON/OFF	OK

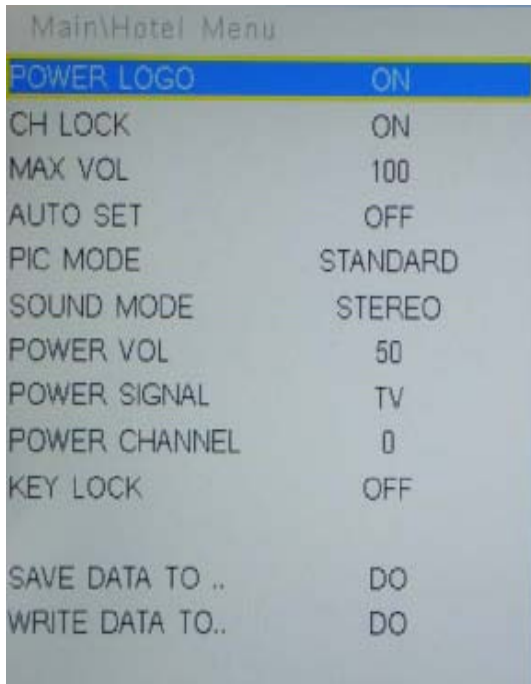
3.5 PARAM SETTING MENU



Press the button in remote control to select certain item and to enter menu.

PARAM SETTING MENU (Setting menu)			
Name	Default	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 curves. Exclusively used by R&D.	OK
Hue Curve	>>>	Hue Curve Exclusively used by R&D.	OK
Volume Curve	>>>	Volume curve. Exclusively used by R&D.	OK
Backlight Curve	>>>	Backlight curve. Exclusively used by R&D.	OK
OverScan	>>>	Overscan adjustment. Exclusively used by R&D.	OK
LVDS Step	10	For LVDS adjust, Exclusively used by R&D.	OK
TconGamma P1...	>>>	For T_CON Gamma adjustment, Exclusively used by R&D.	NG
TconGamma P2...	>>>	For T_CON Gamma adjustment, Exclusively used by R&D.	NG
LSRatioMin(OSD)	52	For Lightsensor adjustmeng, Exclusively used by R&D.	NG
LStmax(PRINT)	CA	For Lightsensor adjustmeng, Exclusively used by R&D.	NG

3.6 HOTEL MENU



Press the ▲▼ button in remote control to select certain item and ◀▶ to enter submenu.

HOTEL MENU			
Name	Default	Description	Status
POWER LOGO	ON	LOGO select	OK
CH LOCK	ON	Channel scan lock.	OK
MAX VOL	100	Max volume	OK
AUTO SET	OFF	The switch of PIC, SOUND etc. When it is ON, these items are selectable.	OK
PIC MODE	Standard	Picture mode.	OK
SOUND MODE	STEREO	Sound mode	OK
POWER VOL.	50	Default volume when power on	OK
POWER SIGNAL	TV	Default signal source when power on	OK
POWER CHANNEL	0	Default channel no. when power on	OK
KEY LOCK	OFF	Lock the keys.	OK
SAVE DATA TO	DO	Save the hotel settings of Hotel Menu to USB	OK
WRITE DATA TO	DO	Copy the hotel settings of Hotel Menu from USB	OK

4. The steps of debugging

4.1 Device

Color Analyzer CA-210. Video Pattern Generator Chroma2329. Color TV Pattern Generator PM5418, VGA cable, AV cable(RCA), YPBPR(RCA) cable.



Chroma2329



Fluke5418



CA-210

4.2 steps of debugging:

According to the requirement of order, we suggest take the below steps to finish the appropriate settings.

A enter the **Factory Menu**, enable **FAC HOTKEY**

B Check the version of software, release date displayed at the bottom of **Factory Menu**. If the information is correct, you can ignore step C and D.

C Enter **Factory Main Menu**, choose **SERVICE MENU->PROJECT ID**, choose corresponding Project ID number of the product (Please refer to the description in BOM about Project ID number).

D return to **Factory Menu**, check the Product model.

E choose **Factory Menu-> NVM RESET** and press ► and wait until prompt OK appears.

F restart the set

G according to the requirement of order, set the items of Shop Menu and Hotel Menu etc.

H After aging under normal temperature, calibrate ADC and adjust white balance.

I choose **Factory Menu-> SHOP INIT** and press ► button of remote control to initialize the set.

Note: after **step I** (execute **SHOP INIT**), **Hotel Menu** will be disabled by default. Therefore, if order requires hotel function, it is necessary to enable hotel function by set **Factory Main Menu-> Service Menu->HOTEL ENABLE** to **ON**.

4.3 ADC Calibration

I .signal and generator

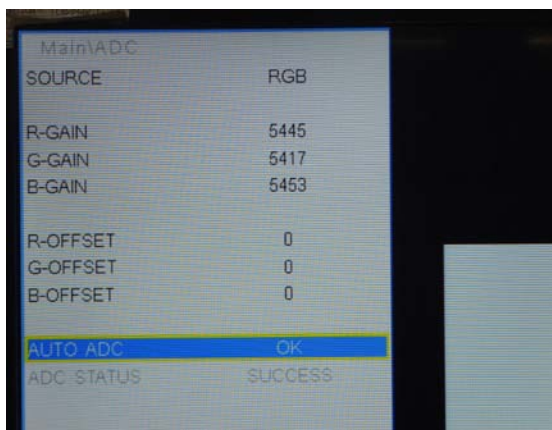
VGA: Chroma2329 Pattern42, Timing 14(1024x768@60Hz 5 MOSAIC)

YPBPR: Chroma2329 Pattern103, Timing 79(100% Color Bar, 720p)

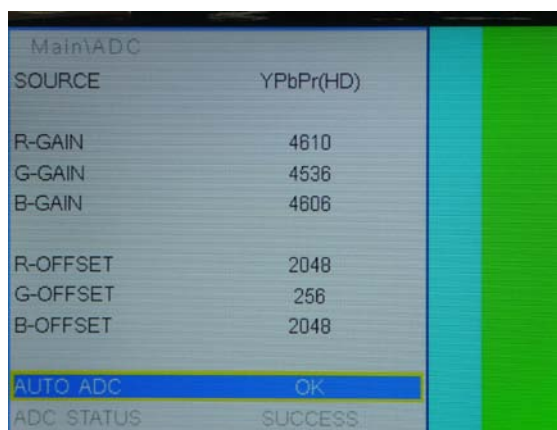


II .steps of debug:

- 1) Access to the **Factory menu->ADC**
- 2) Select **PC** source
- 3) Select **AUTO ADC**, Press ► button in your remote control to calibrate the ADC automatically.
- 4) Select **YPBPR** source
- 5) Repeat step 3.
- 6) When the OK appears the calibration has been finished successfully.



VGA calibration



YPBPR calibration

4.4 White Balance adjustment (Manual)

Before adjustment, you must ensure Color Analyzer has been calibrated. Only AV1, YPBPR, PC , HDMI 1 need to be adjusted. It is necessary to adjustment HDMI 1 firstly.

a. signal and generator

The pattern of the signal should be used are White (Chroma2329 pattern113) and Grey (pattern 114).The format of signal are respectively 720p for HDMI1 (Chroma2329 Timing 69), NTSC for AV1 (Chroma2329 Timing 37),1024×768@60Hz (Chroma2329 Timing 14) for PC and 720p (Chroma2329 Timing 79)for YPBPR

b. steps of adjustment

- 1) enter the **factory menu->WHITE BALANCE**, select source **HDMI 1** and **COLORTEMP normal**.
- 2) input grey signal in 720p format
- 3) change **R OFFSET** and **B OFFSET** to make sure the value of color coordination equal to the value required by enterprise standard (x, y).

4) input white signal in 720p format

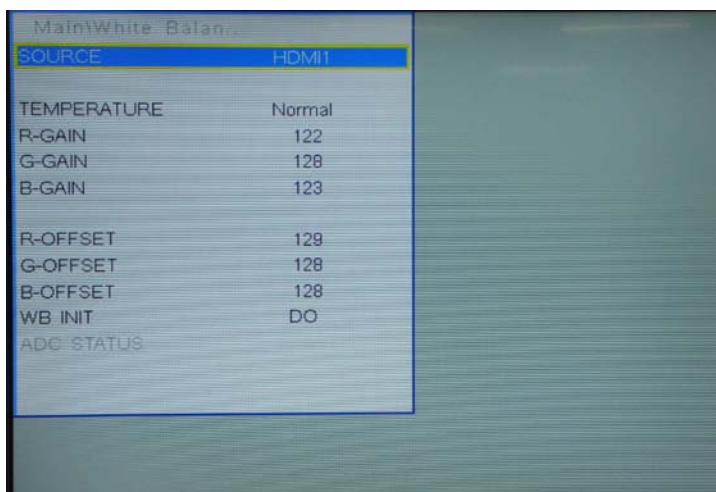
5) change **R Gain** and **B Gain** to make sure the value of color coordination equal to

(x, y).

6) repeat step 2~5 until both of the value of color coordination of white and grey equal to (x, y).

In addition to select **COLORTEMP COOL/WARM**, the adjustment method of **COOL** and **WARM** color temperature is same with that of **NORMAL**. The color coordination we recommend is as follows:

Device: CA-210; Accuracy: ± 0.015				
Model		WARM	NORMAL	COOL
L32E3020	X	0.268	0.282	0.252
	Y	0.279	0.288	0.260



HDMI White Balance adjustment

4.5 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.

5. Chip list of software programming before SMT

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

	Position	Chip type	Chip name	Part number	Software description	Decal
1	U503	Flash	EN25Q32B	13-EN25Q3-2BBEO	main software	SO-8
2	U702	E2PROM	M24C32MN	13-M24C32-MNB	Tcon software	SO-8

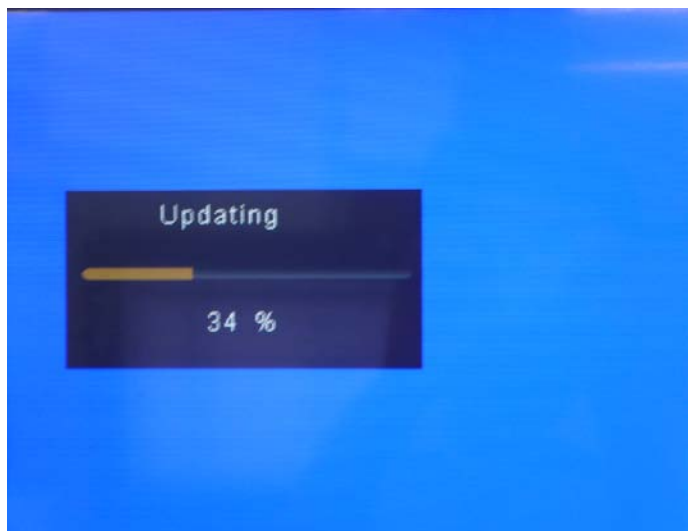
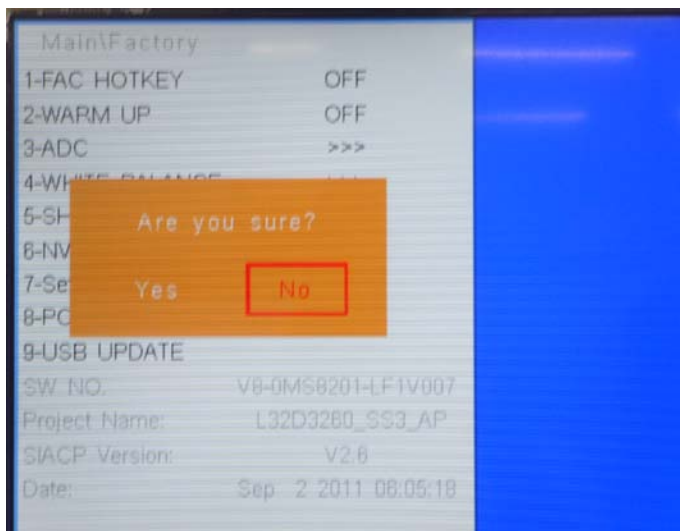
Note:

- 1) The software for U503 and U702 can be program using ISP tool.
- 2) Every set has its unique HDCP key which is purchased from suppliers or HDCP certification authority. Please check HDCP function in the process of production.
- 3) Once in a while, the software of main board may be upgraded. Please pay attention to use the latest software before production.

Appendix:

1. Software upgrade through USB disk

- 1) Please ensure the software you are using has a correct file name **TCL_MS82_UPDATE.bin**, then copy it to the root directory of a USB disk.
- 2) Insert the USB disk to the USB socket of the set for which you are going to upgrade program.
- 3) Enter the **Factory Menu** (you can choose either a or b way below)
 - a. In the first place, press **Menu** button of remote control, then select **Contrast** item of **Picture** submenu. Finally, press **9, 7, 3, 5** consecutively.
 - b. When the **Factory hotkey** item of **Factory Menu** is enabled (ON), press **Return** button of remote control.
- 4) select **USB UPDATE**, press ► button of remote control, a pop menu will appear prompting whether start upgrade or not. Press **Yes** to start upgrade, press **No** to cancel. **Please wait patiently until the set restart automatically after upgrade. Do not cut off the power supply during the process.**

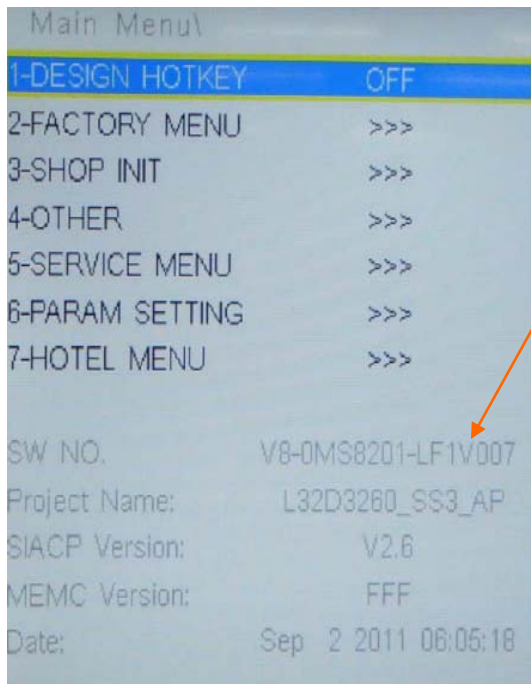


Upgrade Main Software

2. Check software version, release date and Project ID

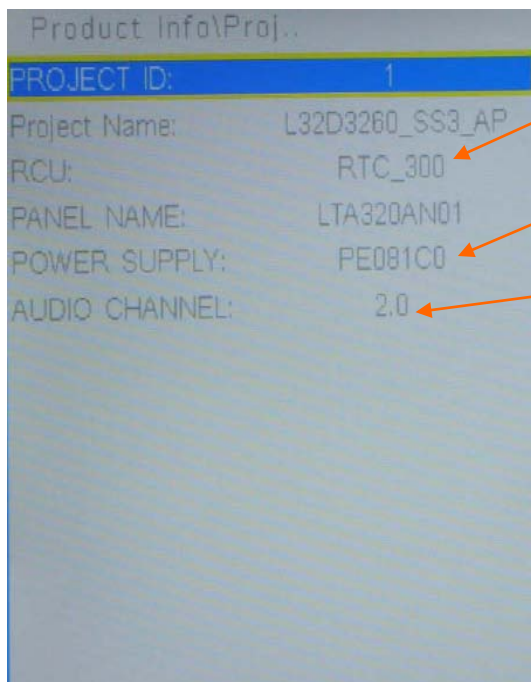
After upgrading, sometimes you may not certain whether the new software has been successfully updated or not. In this case, you can check the software version and release date in **Factory Main Menu** to make sure the success of upgrading. In addition, for the convenience of software management, many models of same chassis may share a same software, but are allocated with different Project ID. In another words, every model has its unique Project ID. Obviously, Both software version and Project ID are highly critical to ensure the set work properly. Therefore, after upgrading software, we suggest you check these information by following method.

- 1) Enter the **Factory Main Menu** (you can choose either a or b way below)
 - a In the first place, press **Menu** button of remote control, then select **Contrast** item of **Picture** submenu. Finally, press **1, 9 5, 0** consecutively.
 - b. When the **DESIGN HOTKEY** item of **Factory Main Menu** is enabled (ON), press **Return** button of remote control.
- 2) Check the version of software, release date displayed at the bottom of **Factory Main Menu**. If the information is correct, you can ignore step C and D.
- 3) choose **SERVICE MENU->PROJECT ID**, choose corresponding Project ID number of the product (Please refer to the description in BOM about Project ID number).
- 4) choose **Factory Menu** and press **OK** button of the remote. Next, select **NVM RESET** and press **▶** and wait until prompt OK appears.
- 5) choose **SHOP INIT** and press **▶** button of remote control to initialize the set.
Note: after **step 1** (execute **SHOP INIT**), **Hotel Menu** will be disabled by default. Therefore, if order requires hotel function, it is necessary to enable hotel function by set **Factory Main Menu-> Service Menu->HOTEL ENABLE** to **ON**.
- 6) restart the set.



Product
Information

Check product information



Remote Control name

Power Supply name

Audio Channel number

Change project ID

3. FAQ

1) Why there is no picture after upgrading software or changing project ID?

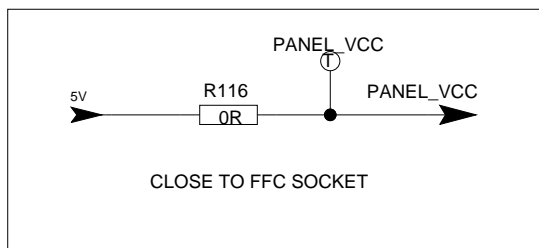
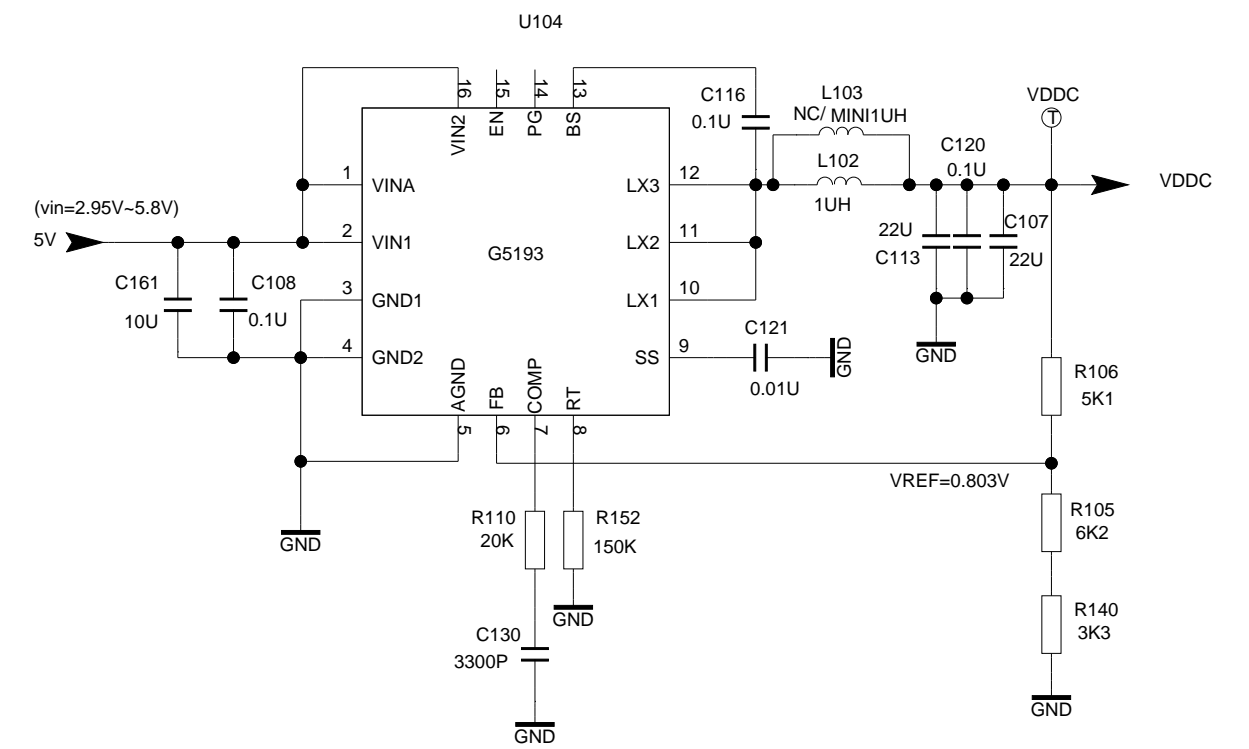
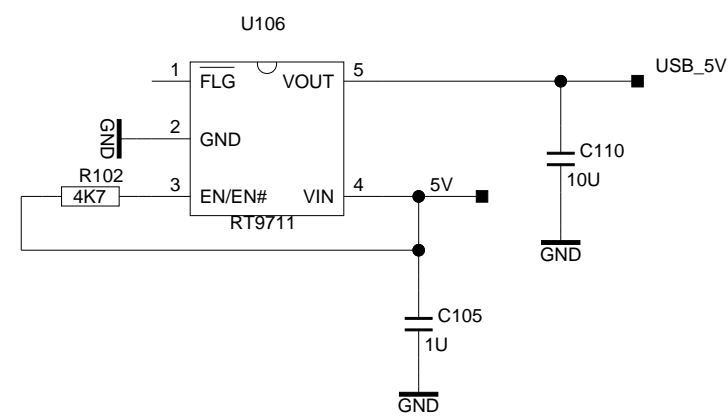
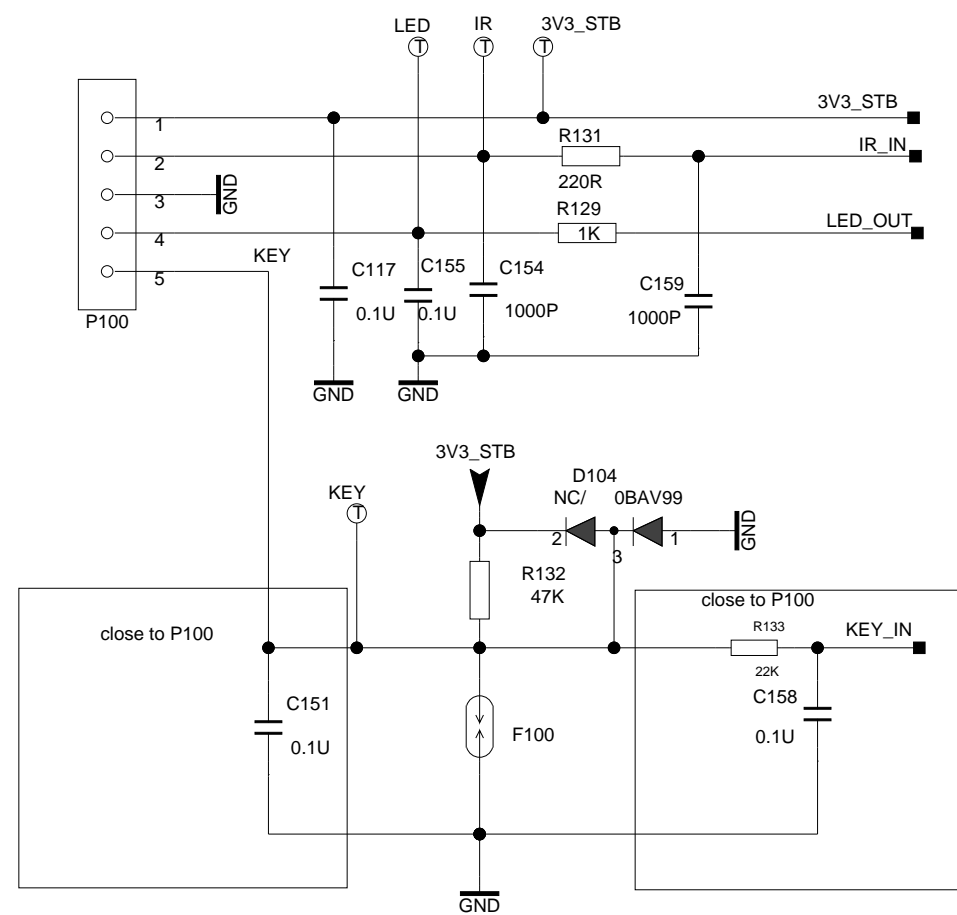
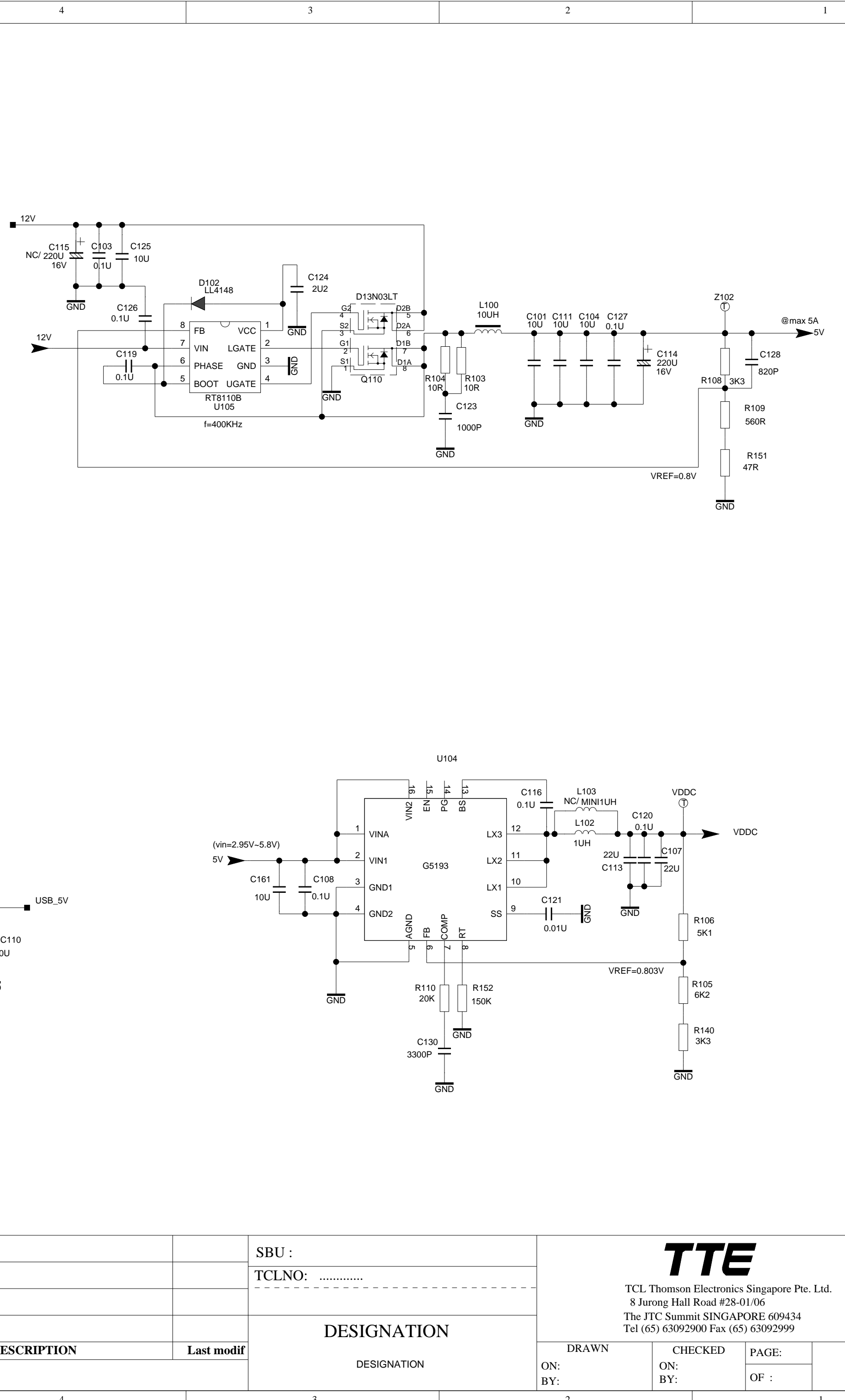
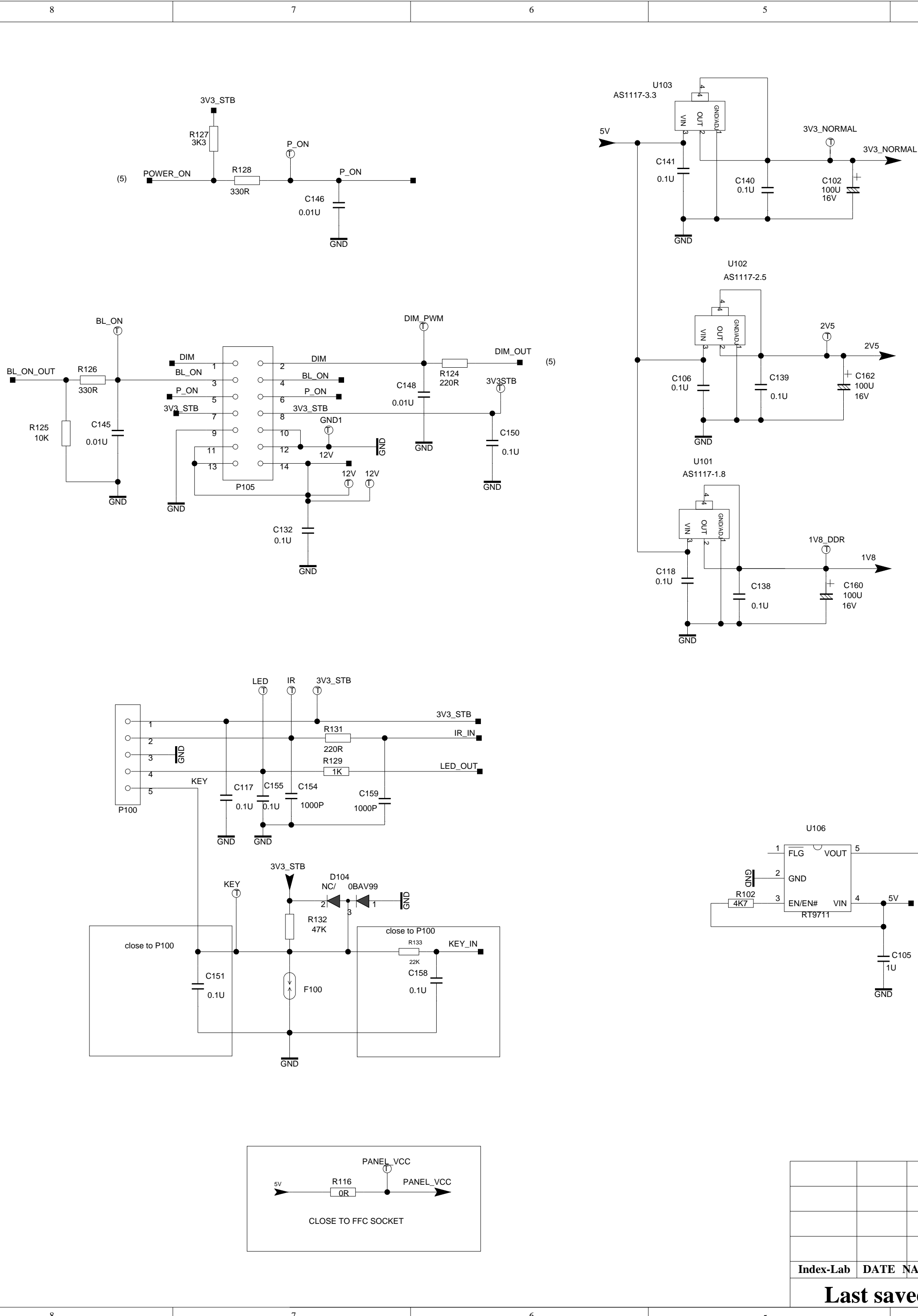
It may be caused by fault of project ID. You can try below method to fix the problem.

a. If the resolution of the panel of your set is 1366×768(HD panel), you can press Menu, ► and **4976** of remote control in series after turning on.

b. If the resolution of the panel of your set is 1920×1080(FHD panel), you can press Menu, ► and **4973** in series after turning on.

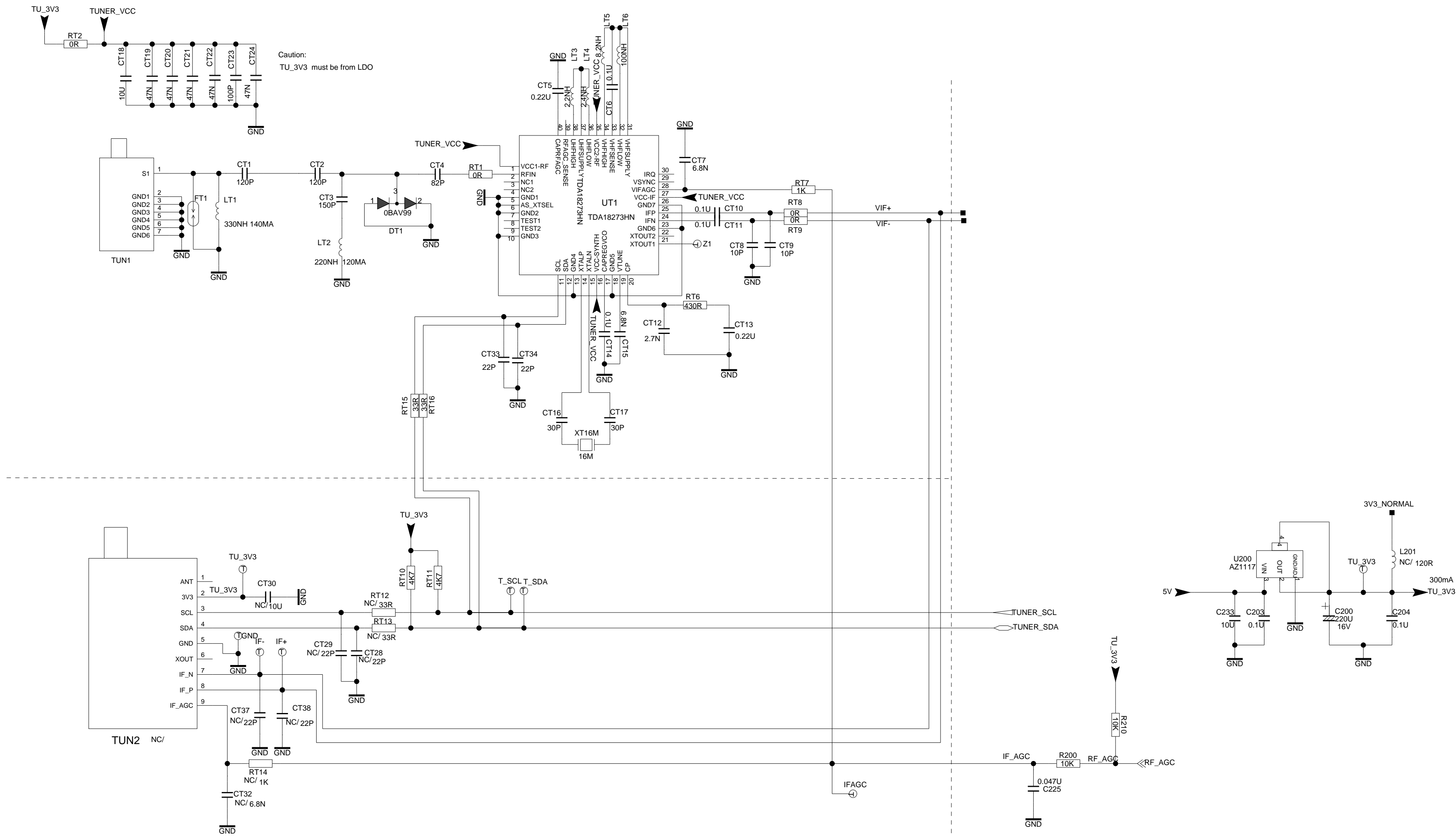
c. If you can see the picture at this time, please recheck the project ID again. If the project ID is still wrong, correct it reference to above description.

A	B	C	D	E	F
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					SBU :	<div><div>TTE</div><div>TCL Thomson Electronics Singapore Pte. Ltd. 8 Jurong Hall Road #28-01/06 The JTC Summit SINGAPORE 609434 Tel (65) 63092900 Fax (65) 63092999</div></div>				
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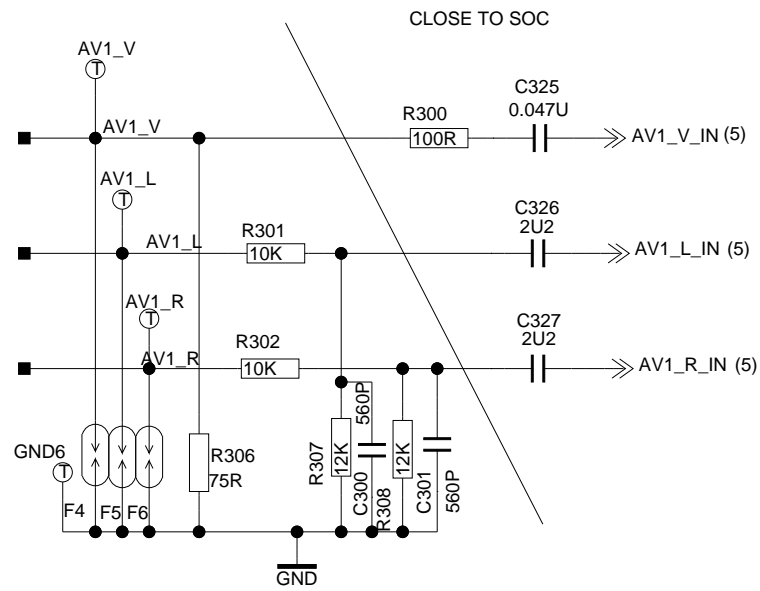


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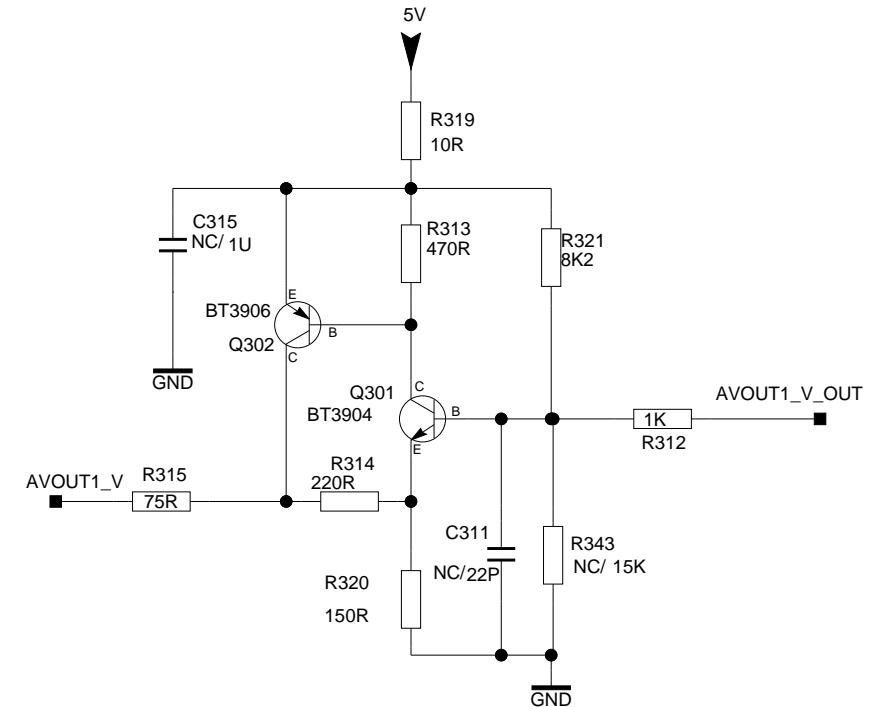
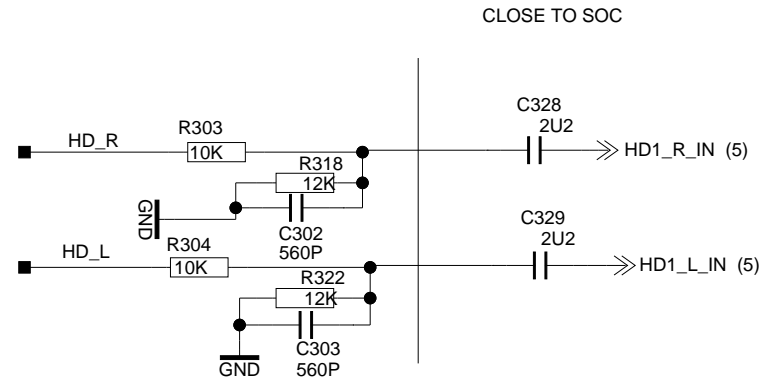
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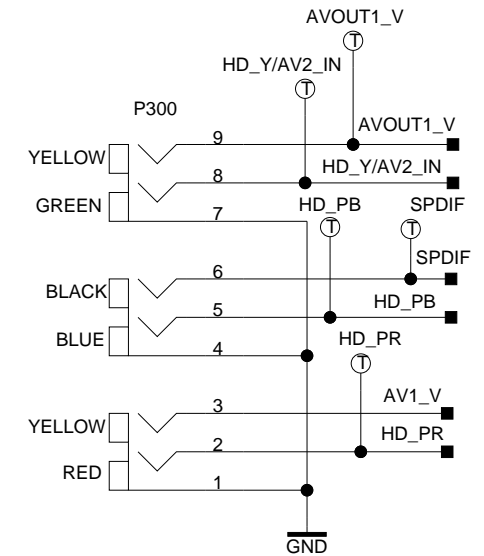
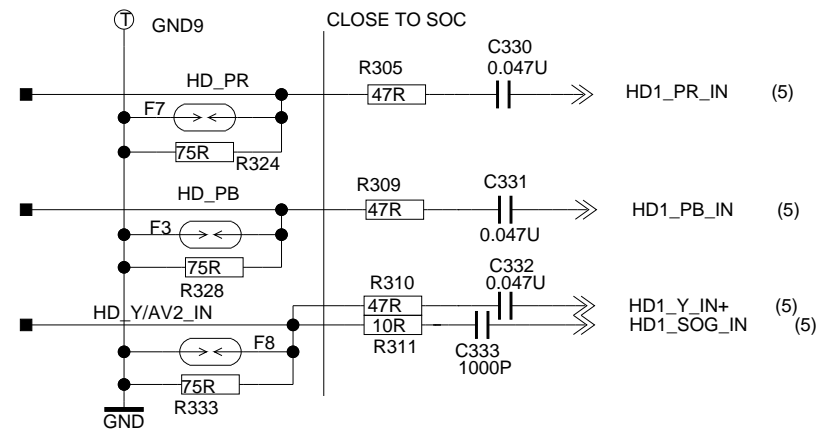
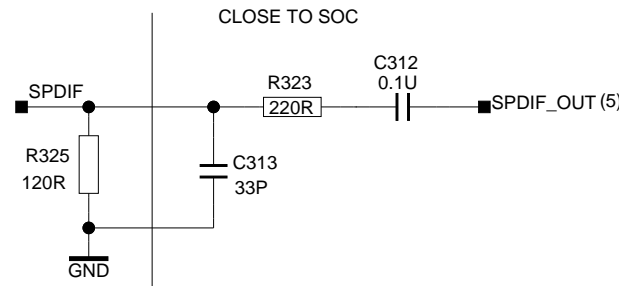
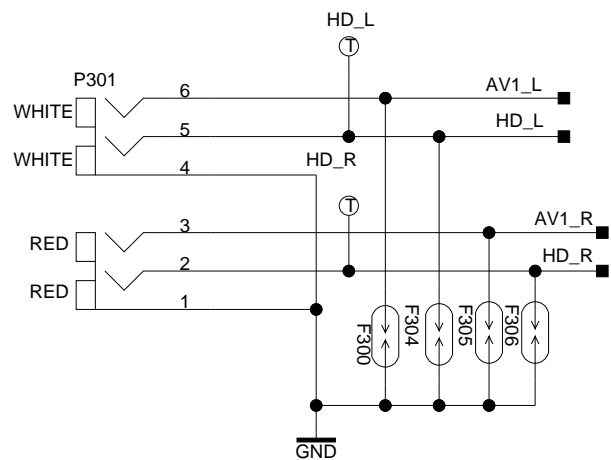
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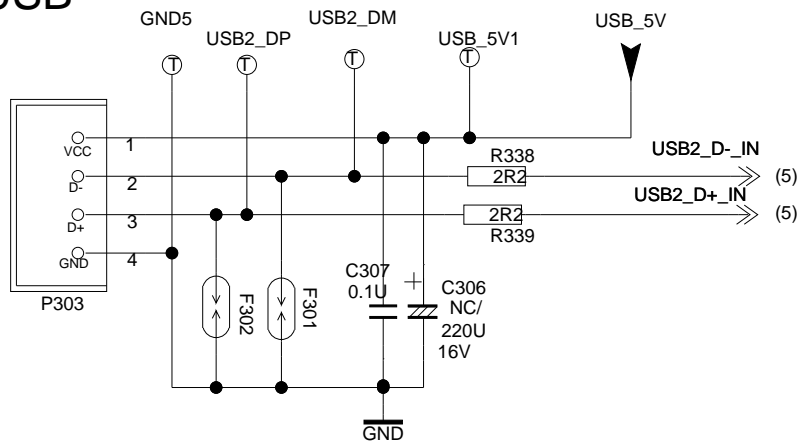
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AV OUT

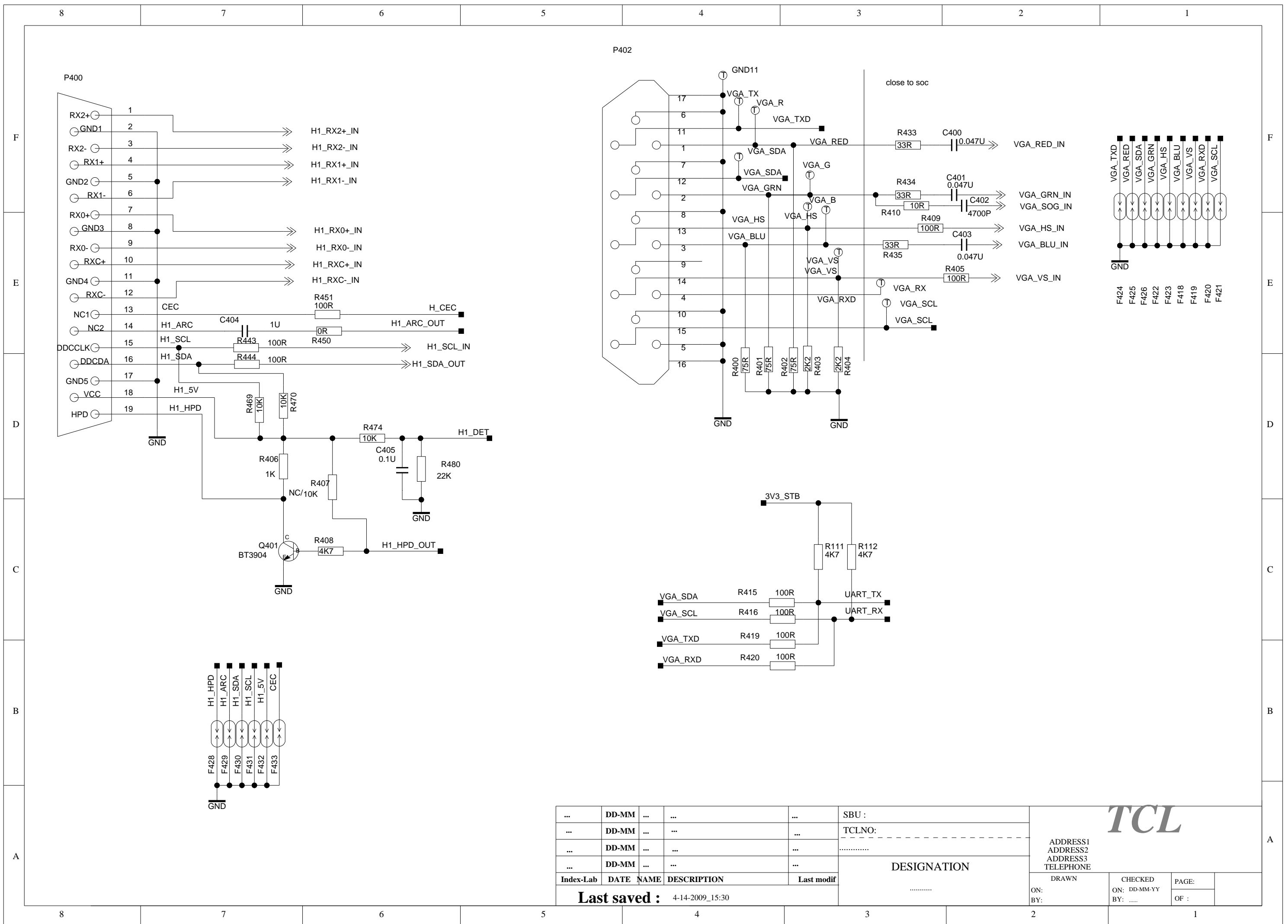


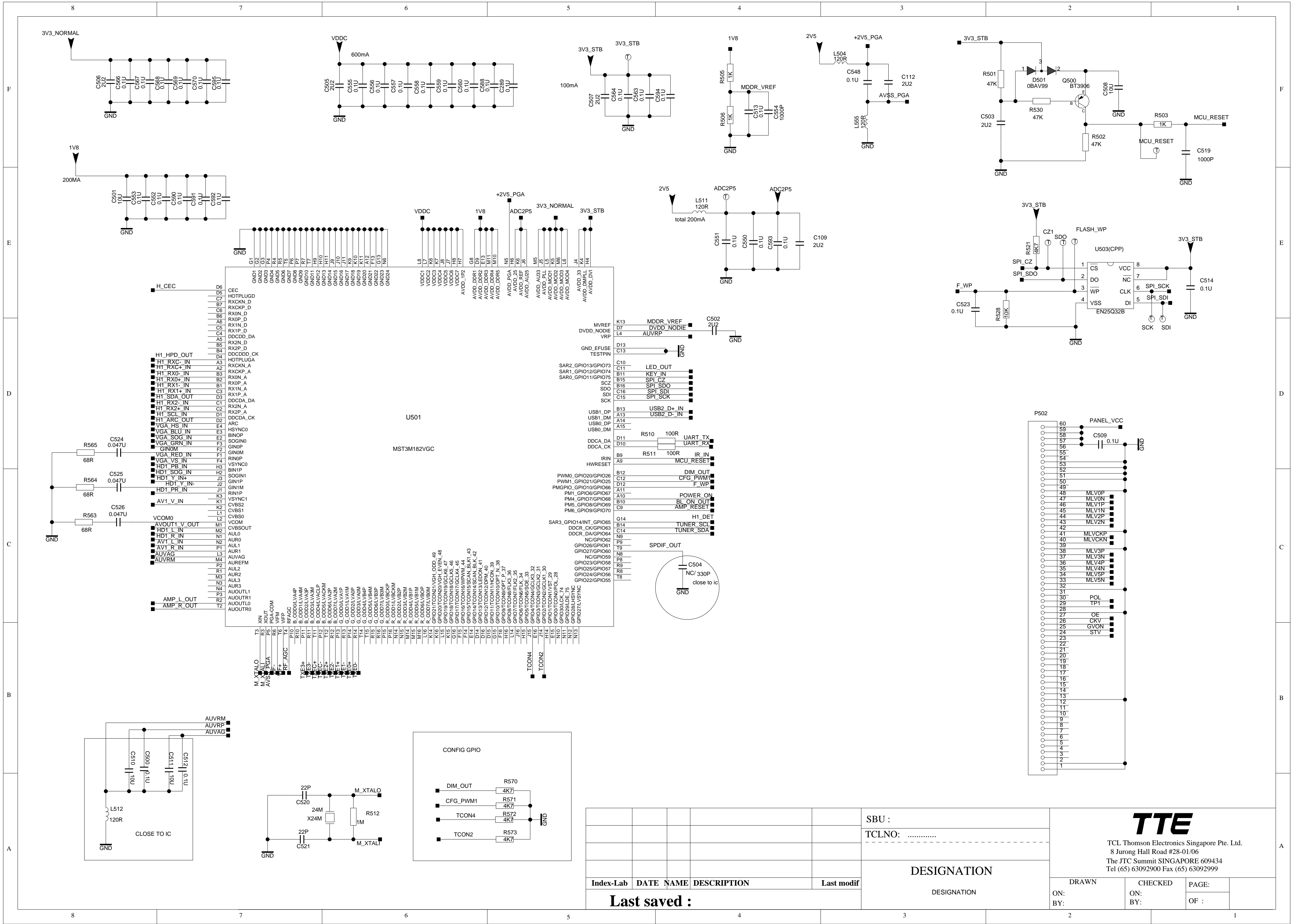
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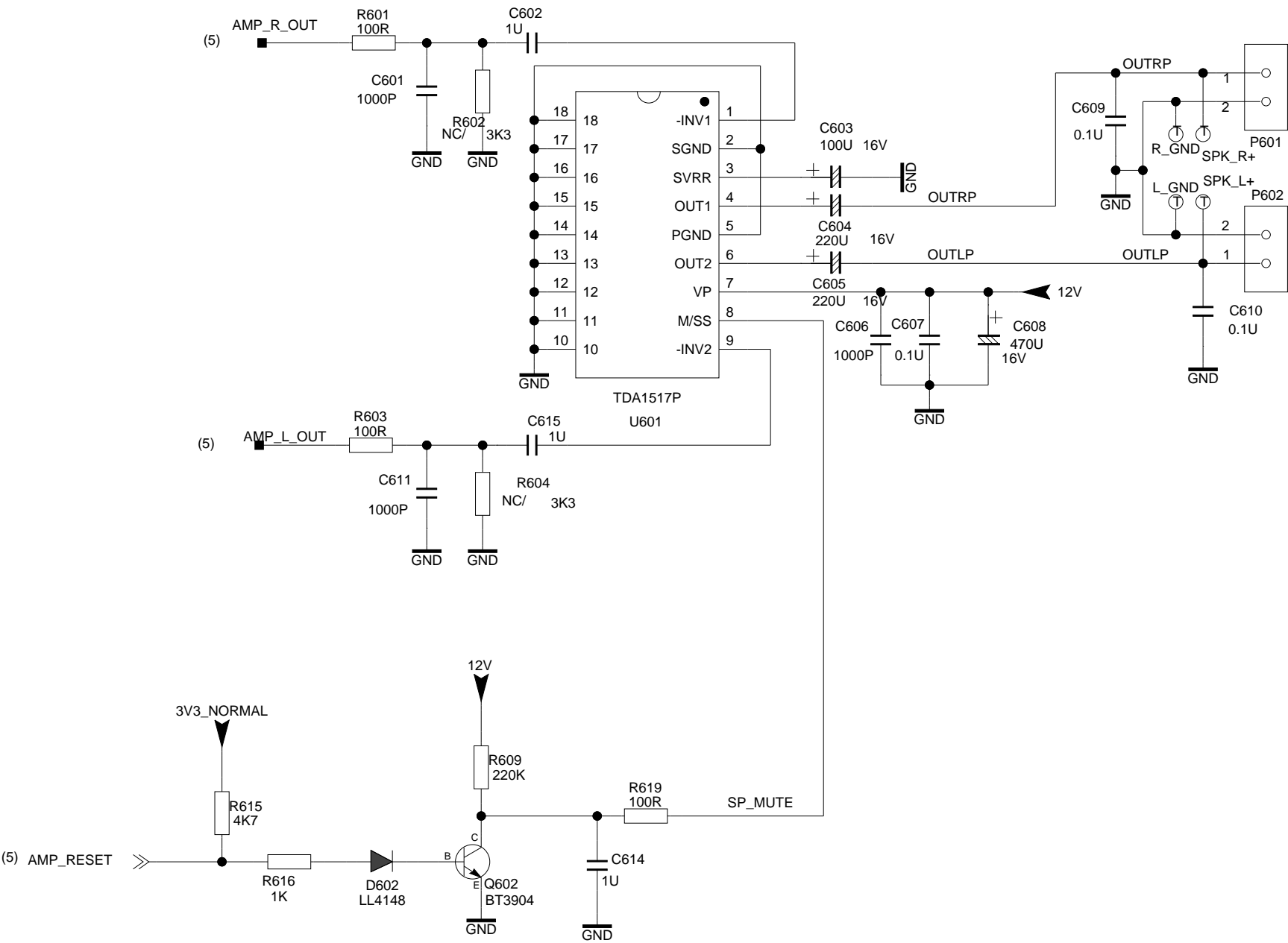
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VCC_LVDS

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KB/GPO1

VDDP

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L701

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PWM0/GPO6

VDDC2

NC1

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VDDP2

STV_D

GP03

UD_SEL/GPO2

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STV

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TCL Thomson Electronics Singapore Pte. Ltd
8 Jurong Town Hall Road #28-01/06
The JTC Summit SINGAPORE 609434
Tel (65) 63092900 Fax (65) 63092999

DESIGNATION

PAGE:

PAGE:
OF :

FORMAT DIN A4

H3-32E30T3-CUSC0AA

L32E3020/MS82CD-LA/NDCL CS9W01 V1/NO GRA

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H3-32E30T3-CUSC0AA	67-989240-0A0	RAW SHIELDING 32E3020 -- 00 00 00 R=Y	
H3-32E30T3-CUSC0AA	67-M86080-1G4	RAW SUPPORT VESA 32E3020 00 00 01 R=Y	
H3-32E30T3-CUSC0AA	70-STDE30-EEM1C	TV PRI ADDENDUM SHEET E3000 STAND ASSY R	
H3-32E30T3-CUSC0AA	71-BAR006-0A9	TV PRI LABEL E001 -- R=N	
H3-32E30T3-CUSC0AA	72-MS82CA-ELA1A	PRI -- IB MS82CD-LA TCL ENG R=Y	
H3-32E30T3-CUSC0AA	74-008010-12CR	RAW BAG PE 80MMX100MM (AUTO LOCK) -- 00	装固定底座
H3-32E30T3-CUSC0AA	74-013026-60CR	RAW BAG 130X260X0.06MM -- 00 00 00 R=Y	装电源线
H3-32E30T3-CUSC0AA	74-022032-5WEEM	DEC BAG -- R=Y	装说明书
H3-32E30T3-CUSC0AA	74-075030-50HEM	DEC BAG -- R=N	装底座
H3-32E30T3-CUSC0AA	74-110075-50HEM	DEC BAG -- R=N	装整机
H3-32E30T3-CUSC0AA	75-988870-EC1	RAW POLYFOAM TOP LED32E3020-EM -- 0 0 R=	机器上方
H3-32E30T3-CUSC0AA	75-988880-EC1	RAW POLYFOAM BOTTOM LED32E3020-EM -- 0 0	机器下方
H3-32E30T3-CUSC0AA	76-988890-0AT	RAW CARTON-BOX LED32E3020-EM K=A 00 00 0	包装机器
H3-32E30T3-CUSC0AA	89-604792-JZR	SUNDRIES-FILM SELF ADHESIVE FILM	贴于底座
H3-32E30T3-CUSC0AA	89-BX8915-JZOU	SUNDRIES-TAPE ADHESIVE 18MMX55M --	
H3-32E30T3-CUSC0AA	V6-PROJECT-ID019	SOFTWARE PROJECT ID: 19	
H3-32E30T3-CUSC0AA	63-B3008T-BF4G	SCREW-ST 3MM 8MM ISO R=Y	固定机芯
H3-32E30T3-CUSC0AA	06-520W37-T003X	06-520W37-T003X - REMOTE	REMOTE CC
H3-32E30T3-CUSC0AA	08-32E3020-LPM003	LVW320NDCL CS9W01 V1	
08-32E3020-LPM003A	08-CS32TML-LC253A	LVW320NDCL CS9W01--32E3020配华星ST3151A05-6	
08-CS32TML-LC253AA	08-32E3020-MC202A	32E3020-结构胶框组件-STA05	
08-32E3020-MC202AA	59-KE951U-OH1	RAW BUFFER RUBBER M 00 00 00 R=Y	贴于上下屏
08-32E3020-MC202AA	59-KE951U-2H1	RAW BUFFER RUBBER M 00 00 00 R=Y	贴于左右屏
08-32E3020-MC202AA	59-KE951U-2G1	RAW BUFFER RUBBER M 00 00 00 R=Y	贴于左右屏
08-32E3020-MC202AA	62-988700-3UFG	RAW SUPPORT 32E3020 FRAME LEFT ST A05-CE	
08-32E3020-MC202AA	62-988690-3UFG	RAW SUPPORT 32E3020 FRAME DOWN ST A05-CE	
08-32E3020-MC202AA	62-988710-3UFG	RAW SUPPORT 32E3020 FRAME RIGHT ST A05-C	
08-32E3020-MC202AA	62-988680-1UFG	RAW SUPPORT 32E3020 FRAME UP 32E3020 FRA	
08-CS32TML-LC253AA	08-32LATTM-BL400A	32E3020兆马LB 配华星屏背光组件	
08-32LATTM-BL400AI	46-MM012L-03PN2G	WIRE CONNECT 120MM 2PIN A1257H00 A1257H0	
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08-32LATTM-BL400AI	4C-KF320T-TXP	DIFFUSER 32INCH 0.215MM 709.68MM 404.3MM	
08-32LATTM-BL400AI	46-FM130L-06WN1G	WIRE LB WIRE, FOR ES282C2, NA 1300/700MM 6	LB WIRE
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08-32LATTM-BL400AI	4C-LB32L7-YH1	LIGHTBAR STRAIGHT IN 32INCH 7.84W 7LEDS	
08-32LATTM-BL400AI	4C-LB32L8-YH1	LIGHTBAR STRAIGHT IN 32INCH 8.96W 8LEDS	
08-32LATTM-BL400AI	4C-PF320T-PYX3	PRISM 32INCH 0.188MM 730.08MM 425.08MM R	
08-32LATTM-BL400AI	4C-DP320T-SX6	Diffuser DIFFUSER-PLANT 32INCH 1.2MM 709	
08-CS32TML-LC253AA	4A-LD320F-CS9GTA	OPENCELL 2D 32INCH CSOT ST3151A05-6 60HZ	
08-32E3020-LPM003A	54-932650-000	RAW OVERLAY BACKLIGHT -- 00 00 00 R=Y	贴与CELL
08-32E3020-LPM003A	62-989220-0UK1A	DEC SUPPORT 32E3020 LB SUPPORT -- 0 0 0	

08-32E3020-LPM003A	67-989250-0S0	RAW HEATSINK 32E3020 IC HEATSINK 00 00 R	
08-32E3020-LPM003A	71-BAR011-0A9	TV PRI LABEL -- WHITE & BLACK R=Y	
08-32E3020-LPM003A	71-L32F32-PIN1C	PRI LABEL LABEL -- R=Y	
08-32E3020-LPM003A	89-BX8915-JZ0U	SUNDRIES-TAPE ADHESIVE 18MMX55M --	固定LB线
08-32E3020-LPM003A	08-32E3005-FC200A	ASS'Y - FRONT CABINET	
08-32E3005-FC200AA	56-989210-0VH1A	DEC LENS 32E3020 LENS -- 00 00 00 R=N	
08-32E3005-FC200AA	55-988670-0HX1A	DEC FRONTPANEL 32E3020 FC -- 00 00 00 R=	
08-32E3005-FC200AA	89-604792-JZH	SUNDRIES-FILM SELF ADHESIVE FILM	面框上左
08-32E3005-FC200AA	89-604830-JZ0	PROTECTING LABEL 50mm	面框下侧
08-32E3020-LPM003A	08-32E3006-RC200A	ASS'Y - REAR CABINET	
08-32E3006-RC200AA	63-A3012T-BF5G	SCREW-ST 3MM 8MM ISO R=Y	
08-32E3006-RC200AA	55-988720-6HZ6R	DEC BACKCOVER 32E3020 BC -- 00 00 00 R=N	
08-32E3020-LPM003A	54-FY1008-389	SPONGE STRIPE -- R=Y	贴于前壳
08-32E3020-LPM003A	54-FY1008-379	SPONGE STRIPE -- R=Y	贴于前壳
H3-32E30T3-CUSCOAA	08-42E3301-IR300A	IR BOARD	
08-42E3301-IR300AA	12-BT3906-0BX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIO W S	Q1
08-42E3301-IR300AA	14-LED03R-XX3	LED 1.8V 0.025 A RDM DIFFUSION 3 BT-H299	D1
08-42E3301-IR300AA	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R2
08-42E3301-IR300AA	19-AB0102-JTX	RES SMD 1K OHM 1/10W 0603	R3
08-42E3301-IR300AA	19-AB0562-JTX	SMD. RES 5.6K OHM 1/10W +/-5% 0603	R1
08-42E3301-IR300AA	46-GHSR01-04SG	CONN SMT 4 1MM FEMALE WHITE R	P1
08-42E3301-IR300AA	59-878320-000	TV RAW RUBBER LIGHT-CAP -- 00 00 00 R=Y	FOR D1
08-42E3301-IR300AA	28-BA0106-KBX	CAP. CER, SMD 10UOF 10V DCV 0805 -	C1
08-42E3301-IR300AA	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R4
08-42E3301-IR300AA	02-IRR002-X12	IR RECEIVER 37900HZ 5V NONE AT138BV3	G1
08-42E3301-IR300AA	40-42E330-IRC2XG	PCB IR DOUBLESIDED 1.6MM 1OUNCE 40-42E33	PCB
H3-32E30T3-CUSCOAA	08-42E3301-KE300A	KEY BOARD	
08-42E3301-KE300AA	48-TAC001-DX0	TACT SWITCH KQS-902	K2
08-42E3301-KE300AA	48-TAC001-DX0	TACT SWITCH KQS-902	K4
08-42E3301-KE300AA	48-TAC001-DX0	TACT SWITCH KQS-902	K7
08-42E3301-KE300AA	48-TAC001-DX0	TACT SWITCH KQS-902	K1
08-42E3301-KE300AA	48-TAC001-DX0	TACT SWITCH KQS-902	K6
08-42E3301-KE300AA	48-TAC001-DX0	TACT SWITCH KQS-902	K3
08-42E3301-KE300AA	48-TAC001-DX0	TACT SWITCH KQS-902	K5
08-42E3301-KE300AA	46-40395W-05SG	CONN SMT 5 1.25MM FEMALE WH R	P1
08-42E3301-KE300AA	19-AB0471-FTX	RES SMD 470 OHM 1/10W +/-1% 0603	R2
08-42E3301-KE300AA	19-AB0471-FTX	RES SMD 470 OHM 1/10W +/-1% 0603	R1
08-42E3301-KE300AA	19-AB0471-FTX	RES SMD 470 OHM 1/10W +/-1% 0603	R7
08-42E3301-KE300AA	19-AB0471-FTX	RES SMD 470 OHM 1/10W +/-1% 0603	R6
08-42E3301-KE300AA	19-AB0471-FTX	RES SMD 470 OHM 1/10W +/-1% 0603	R5
08-42E3301-KE300AA	19-AB0471-FTX	RES SMD 470 OHM 1/10W +/-1% 0603	R3
08-42E3301-KE300AA	19-AB0471-FTX	RES SMD 470 OHM 1/10W +/-1% 0603	R4
08-42E3301-KE300AA	22-VDR270-XX1S	VDR 27V 3A N EZJZ1V270RA	R12
08-42E3301-KE300AA	46-GHSS02-04SG	CONN SMT 4 1.25MM FEMALE WHITE R	P2
08-42E3301-KE300AA	40-42E330-KEB2XG	PCB KEY DOUBLESIDED 1.6MM 1OUNCE 40-42E3	PCB
H3-32E30T3-CUSCOAA	08-MS82C01-MA200A	ASS'Y - MAIN BD	
08-MS82C01-MA200AA	71-PHIBAR-NUL01	PRI LABEL BARCODE -- R=Y	
08-MS82C01-MA200AA	71-LC0913-001	LABEL	
08-MS82C01-MA200AA	08-MS82C01-MA300A	ASS'Y - MAIN BD(W:12V/STB:3.3V)	
08-MS82C01-MA300AA	28-HB0220-JCX	CAP. CER, SMD 22P0F 50V DCV 0402 -	C521
08-MS82C01-MA300AA	28-HB0220-JCX	CAP. CER, SMD 22P0F 50V DCV 0402 -	C520
08-MS82C01-MA300AA	28-HB0220-JCX	CAP. CER, SMD 22P0F 50V DCV 0402 -	CT33
08-MS82C01-MA300AA	28-HB0220-JCX	CAP. CER, SMD 22P0F 50V DCV 0402 -	CT34
08-MS82C01-MA300AA	28-HB0151-JCX	CAPACITORS 0402 50V 150P ±5%	CT3

08-MS82C01-MA300AA	28-HB0272-KBX	CAP. CER, SMD 2700PF 10% 50V N 0402 0402B2	CT12
08-MS82C01-MA300AA	28-HB0300-JCX	CAP. CER, SMD 30PF 5% 50V 0.025 0402 CL05	CT17
08-MS82C01-MA300AA	28-HB0300-JCX	CAP. CER, SMD 30PF 5% 50V 0.025 0402 CL05	CT16
08-MS82C01-MA300AA	28-HB0330-JCX	CAP. CER, SMD 33PF 50V DCV 0402 -	C313
08-MS82C01-MA300AA	28-HB0332-KBX	CAP. CER, SMD 3N3F 50V DCV 0402 -	C130
08-MS82C01-MA300AA	28-HB0472-KBX	CAP. CER, SMD 4.7NF 50V 0402 -	C402
08-MS82C01-MA300AA	28-HB0121-JCX	CAP. CER, SMD 120P0F 50V DCV 0402 -	CT2
08-MS82C01-MA300AA	28-HB0121-JCX	CAP. CER, SMD 120P0F 50V DCV 0402 -	CT1
08-MS82C01-MA300AA	28-HB0103-KBX	CAP. CER, SMD 10N0F 50V DCV 0402 -	C145
08-MS82C01-MA300AA	28-HB0103-KBX	CAP. CER, SMD 10N0F 50V DCV 0402 -	C146
08-MS82C01-MA300AA	28-HB0103-KBX	CAP. CER, SMD 10N0F 50V DCV 0402 -	C148
08-MS82C01-MA300AA	28-HB0103-KBX	CAP. CER, SMD 10N0F 50V DCV 0402 -	C121
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C721
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C159
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C703
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C715
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C606
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1N0F 50V DCV 0402 -	C611
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C513
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C548
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C553
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C514
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C564
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C707
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C500
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C512
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C717
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C716
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C719
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C718
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C312
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C552
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C307
08-MS82C01-MA300AA	28-HB0821-KBX	CAP. CER, SMD 820PF 10% 50V N 0402 0402B82	C128
08-MS82C01-MA300AA	28-HB0820-JCX	SMD. CAP 82PF 50V +/-5%	CT4
08-MS82C01-MA300AA	28-HB0682-KBX	CAP. CER, SMD 6800PF 10% 50V N 0402 0402B6	CT7
08-MS82C01-MA300AA	28-HB0682-KBX	CAP. CER, SMD 6800PF 10% 50V N 0402 0402B6	CT15
08-MS82C01-MA300AA	28-HB0561-KBX	CAP. CER, SMD 560P0F 50V DCV 0402 -	C302
08-MS82C01-MA300AA	28-HB0561-KBX	CAP. CER, SMD 560P0F 50V DCV 0402 -	C303
08-MS82C01-MA300AA	28-HB0561-KBX	CAP. CER, SMD 560P0F 50V DCV 0402 -	C301
08-MS82C01-MA300AA	28-HB0561-KBX	CAP. CER, SMD 560P0F 50V DCV 0402 -	C300
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C510
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C233
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C508
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C161
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	CT18
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C511
08-MS82C01-MA300AA	28-AC0105-KBX	SMD. CAP 16V 1UF +/-10%	C404
08-MS82C01-MA300AA	28-AC0105-KBX	SMD. CAP 16V 1UF +/-10%	C615
08-MS82C01-MA300AA	28-AC0105-KBX	SMD. CAP 16V 1UF +/-10%	C602
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C116
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C610
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C126
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C103

08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C127
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C108
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C203
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C106
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C118
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C609
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C607
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C119
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C132
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C120
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1NOF 50V DCV 0402 -	C554
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1NOF 50V DCV 0402 -	C708
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1NOF 50V DCV 0402 -	C706
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1NOF 50V DCV 0402 -	C154
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1NOF 50V DCV 0402 -	C333
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1NOF 50V DCV 0402 -	C601
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1NOF 50V DCV 0402 -	C123
08-MS82C01-MA300AA	28-HB0102-KBX	CAP. CER, SMD 1NOF 50V DCV 0402 -	C519
08-MS82C01-MA300AA	28-HB0101-JCX	CAP. CER, SMD 100P0F 50V DCV 0402 -	CT23
08-MS82C01-MA300AA	28-HB0100-JCX	CAP. CER, SMD 10PF 50V 0402 - +/-5% R=Y	CT8
08-MS82C01-MA300AA	28-HB0100-JCX	CAP. CER, SMD 10PF 50V 0402 - +/-5% R=Y	CT9
08-MS82C01-MA300AA	28-CC0106-KBX	CAP. CER, SMD 10U0F 16V DCV 1206 -	C125
08-MS82C01-MA300AA	28-BF0226-MBX	CAP. CER, SMD 22UF 6.3V -8-5 -	C612
08-MS82C01-MA300AA	28-BF0226-MBX	CAP. CER, SMD 22UF 6.3V -8-5 -	C107
08-MS82C01-MA300AA	28-BF0226-MBX	CAP. CER, SMD 22UF 6.3V -8-5 -	C113
08-MS82C01-MA300AA	28-BB0105-KBX	CAP. CER, SMD 1UF 10% 50V 0.2 0805 CL21B10	C105
08-MS82C01-MA300AA	28-BB0105-KBX	CAP. CER, SMD 1UF 10% 50V 0.2 0805 CL21B10	C701
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C111
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C101
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C110
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C501
08-MS82C01-MA300AA	28-BA0106-KBX	CAP. CER, SMD 10U0F 10V DCV 0805 -	C104
08-MS82C01-MA300AA	33-KLN121-06X	FB-SMD 1200HM 25% 600A 0.20HM 1608(0603)	L701
08-MS82C01-MA300AA	33-KLN121-06X	FB-SMD 1200HM 25% 600A 0.20HM 1608(0603)	L512
08-MS82C01-MA300AA	33-KLN121-06X	FB-SMD 1200HM 25% 600A 0.20HM 1608(0603)	L511
08-MS82C01-MA300AA	33-KLN121-06X	FB-SMD 1200HM 25% 600A 0.20HM 1608(0603)	L504
08-MS82C01-MA300AA	33-KLL338-KTX	IND-SMD 0.850HM 15 0.035A 0603 MGFI1608A	LT1
08-MS82C01-MA300AA	33-KLL228-KTX	IND-SMD 0.80HM 20 100MA AS	LT2
08-MS82C01-MA300AA	28-HF0224-KBX	CAPACITORS 0402 6V3 220N ±10%	CT13
08-MS82C01-MA300AA	28-HF0224-KBX	CAPACITORS 0402 6V3 220N ±10%	CT5
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C325
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C526
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C225
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	CT24
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	CT22
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C401
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C400
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C332
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	CT21
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C403
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C525
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C524
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C331
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	CT19

08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	CT20
08-MS82C01-MA300AA	67-H94871-0A0	RAW HEATSINK CHASSIS 00 00 R=Y	FOR U501
08-MS82C01-MA300AA	47-VGA021-XX0	SOCKET VGA R NO LK-VGA021500-0003	P402
08-MS82C01-MA300AA	47-USB006-XX0	USB SOCKET	P303
08-MS82C01-MA300AA	47-HDI011-KS0	SOCKET HDMI ST N A111989-F-15-R	P400
08-MS82C01-MA300AA	46-FFC05W-60SG	CONN FPC 60PIN 0.5MM FEMALE R SHENZHEN D	P502
08-MS82C01-MA300AA	46-40334W-02XG	CONN TJC3 2 2.5MM FEMALE WHITE ST	P602
08-MS82C01-MA300AA	46-40334W-02X01G	CONN ST XHK-NAL-DK-1 (RED)	P601
08-MS82C01-MA300AA	46-40333W-05XG	CONN PH 5 2.0MM FEMALE ST	P100
08-MS82C01-MA300AA	46-40029W-14XG	HS 14PIN Y0510032Z.8	P105
08-MS82C01-MA300AA	45-OSC24M-0Y2	CRYSTAL 24MHZ	X24M
08-MS82C01-MA300AA	45-OSC16M-0Y1B	CRYSTAL 16MHZHZ \pm 20PPM FUNDAMENTAL 18PFF	XT16M
08-MS82C01-MA300AA	40-MS82CD-MAD2HG	PCB MS82CD 165X140MM 2PC DOUBLESIDED 1.6	
08-MS82C01-MA300AA	33-WLL100-MTX	IND-SMD 0.01870HM / 5.4A / SLF12575T-100	L100
08-MS82C01-MA300AA	33-VLL2N4-GTX	IND-SMD 2.4NH +/-2% 0.22A 13 1005(0402)	LT4
08-MS82C01-MA300AA	33-VLL2N2-KTX	IND-SMD 2.2NH +/-9% 1A 25 1005(0402) 0.0	LT3
08-MS82C01-MA300AA	33-VLL101-JTX	IND-SMD 100NH +/-5% 0.15A 8 1005(0402) 1	LT6
08-MS82C01-MA300AA	33-VHL8N2-FTX	IND-SMD 8.2NH +/-1.2% 0.11A 13 1005(0402)	LT5
08-MS82C01-MA300AA	33-NLL109-NTX	IND-SMD 1UH 30% 4.2A \ SLF7045 0.0140HM	L102
08-MS82C01-MA300AA	33-KLN121-06X	FB-SMD 1200HM 25% 600A 0.20HM 1608(0603)	L555
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C566
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C140
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C709
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C139
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C560
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C559
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C555
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C590
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C595
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C567
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C117
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C155
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C550
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C289
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C588
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C594
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C593
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C591
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C592
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	CT14
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	CT6
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C158
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	CT11
08-MS82C01-MA300AA	28-HC0473-KBX	CAP. CER, SMD 47NF 16V 0402 -	C330
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C720
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C569
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C711
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C568
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C702
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C563
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C710
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C570
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C141
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C704

08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C705
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	CT10
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C714
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C150
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C713
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C551
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C138
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C712
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C523
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C557
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C556
08-MS82C01-MA300AA	28-HC0104-KBX	CAP. CER, SMD 100NF 16V 0402 -	C558
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C405
08-MS82C01-MA300AA	19-AB0470-JTX	RES SMD 47 OHM 1/10W +/-5%0603	R309
08-MS82C01-MA300AA	19-AB0470-FTX	RES SMD 47 OHM 1/10W +/-1% 0603	R151
08-MS82C01-MA300AA	19-AB0392-JTX	R-SMD 3K90HM 5% 1/10W 0603 -	R607
08-MS82C01-MA300AA	19-AB0332-FTX	SMD. RES 3.3K OHM 1/10W +/-1% 0603	R108
08-MS82C01-MA300AA	19-AB0332-FTX	SMD. RES 3.3K OHM 1/10W +/-1% 0603	R140
08-MS82C01-MA300AA	19-AB0330-JTX	RES SMD 33 OHM 1/10W +/-5%0603	R433
08-MS82C01-MA300AA	19-AB0330-JTX	RES SMD 33 OHM 1/10W +/-5%0603	R434
08-MS82C01-MA300AA	19-AB0330-JTX	RES SMD 33 OHM 1/10W +/-5%0603	R435
08-MS82C01-MA300AA	19-AB0223-JTX	SMD. RES 22K OHM 1/10W +/-5% 0603	R605
08-MS82C01-MA300AA	19-AB0222-JTX	RES SMD 2.2K OHM 1/10W 0603	R403
08-MS82C01-MA300AA	19-AB0222-JTX	RES SMD 2.2K OHM 1/10W 0603	R404
08-MS82C01-MA300AA	19-AB0203-JTX	RES. SMD 20K OHM 1/10W 0603	R110
08-MS82C01-MA300AA	19-AB0154-JTX	R-SMD 150K00HM 5% 1/10W 0603 -	R152
08-MS82C01-MA300AA	19-AB0154-FTX	SMD. RES 150K OHM 1/10W +/-1%	R609
08-MS82C01-MA300AA	19-AB0123-JTX	SMD. RES 12K OHM 1/10W +/-5% 0603	R318
08-MS82C01-MA300AA	19-AB0123-JTX	SMD. RES 12K OHM 1/10W +/-5% 0603	R307
08-MS82C01-MA300AA	19-AB0123-JTX	SMD. RES 12K OHM 1/10W +/-5% 0603	R308
08-MS82C01-MA300AA	19-AB0123-JTX	SMD. RES 12K OHM 1/10W +/-5% 0603	R322
08-MS82C01-MA300AA	19-AB0105-JTX	RES SMD 1M OHM 1/10W 0603	R512
08-MS82C01-MA300AA	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R608
08-MS82C01-MA300AA	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R606
08-MS82C01-MA300AA	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R304
08-MS82C01-MA300AA	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R303
08-MS82C01-MA300AA	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R619
08-MS82C01-MA300AA	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R510
08-MS82C01-MA300AA	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R603
08-MS82C01-MA300AA	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R451
08-MS82C01-MA300AA	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R443
08-MS82C01-MA300AA	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R444
08-MS82C01-MA300AA	19-GA0101-JTX	SMD. RES 100 OHM 1/16W +/-5%	R601
08-MS82C01-MA300AA	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	RT1
08-MS82C01-MA300AA	19-GA0000-JTX	SMD. RES 0 OHM 1/16W +/-5%	R450
08-MS82C01-MA300AA	19-AB0750-JTX	SMD. RES 75 OHM 1/10W 0603	R306
08-MS82C01-MA300AA	19-AB0750-JTX	SMD. RES 75 OHM 1/10W 0603	R333
08-MS82C01-MA300AA	19-AB0750-JTX	SMD. RES 75 OHM 1/10W 0603	R315
08-MS82C01-MA300AA	19-AB0750-JTX	SMD. RES 75 OHM 1/10W 0603	R402
08-MS82C01-MA300AA	19-AB0750-JTX	SMD. RES 75 OHM 1/10W 0603	R400
08-MS82C01-MA300AA	19-AB0750-JTX	SMD. RES 75 OHM 1/10W 0603	R328
08-MS82C01-MA300AA	19-AB0750-JTX	SMD. RES 75 OHM 1/10W 0603	R401
08-MS82C01-MA300AA	19-AB0750-JTX	SMD. RES 75 OHM 1/10W 0603	R324
08-MS82C01-MA300AA	19-AB0622-FTX	SMD. RES 6.2K OHM 1/10W +/-1%	R105

08-MS82C01-MA300AA	19-AB0561-FTX	SMD. RES 560 OHM 1/10W +/-1%	R109
08-MS82C01-MA300AA	19-AB0512-FTX	SMD. RES 5.1K OHM 1/10W +/-1%	R106
08-MS82C01-MA300AA	19-AB0473-JTX	SMD. RES 47K OHM 1/10W 0603	R501
08-MS82C01-MA300AA	19-AB0470-JTX	RES SMD 47 OHM 1/10W +/-5%0603	R305
08-MS82C01-MA300AA	19-AB0470-JTX	RES SMD 47 OHM 1/10W +/-5%0603	R310
08-MS82C01-MA300AA	13-RT9711-APB	IC-SWITCH USB 1.5A HIGH-SIDE POWER SWITC	U106
08-MS82C01-MA300AA	13-MST3M1-82B	IC A SINGLE CHIP IDTV SOLUTION THAT SUPP	U501
08-MS82C01-MA300AA	13-MN6M30-QTB	IC MAIN TIMING CONTROLLER MST6M30QST	U701
08-MS82C01-MA300AA	13-M24C32-MNB	IC-EEPROM M24C32-WMN6 R=N	U702 (CPP)
08-MS82C01-MA300AA	13-G5193R-41B	IC 5V TO 1.2V G5193	U104
08-MS82C01-MA300AA	13-EN25Q3-2BBEO	IC 32M BIT SERIAL FLASH EN25Q32B	U503 (CPP)
08-MS82C01-MA300AA	13-AZ1117-33B	IC 3.3V LOW DROPOUT LINEAR REGULATOR	U200
08-MS82C01-MA300AA	13-AS1117-33B	IC 3.3V SOT-223 AS1117-33 CX	U103
08-MS82C01-MA300AA	13-AS1117-25B	IC SOT-223 AS1117-25 CX	U102
08-MS82C01-MA300AA	13-AS1117-18B	ICSOT-223 AS1117-18CX	U101
08-MS82C01-MA300AA	12-BT3906-OBX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIO W S	Q601
08-MS82C01-MA300AA	12-BT3906-OBX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIO W S	Q500
08-MS82C01-MA300AA	12-BT3906-OBX	TR-SMD PNP 40V 200MIO A 250MHZ 225MIO W S	Q302
08-MS82C01-MA300AA	12-BT3904-OBX	TR-SMD NPN 40VV 200MA A 300HZ 0.25W SOT2	Q401
08-MS82C01-MA300AA	12-BT3904-OBX	TR-SMD NPN 40VV 200MA A 300HZ 0.25W SOT2	Q301
08-MS82C01-MA300AA	12-BT3904-OBX	TR-SMD NPN 40VV 200MA A 300HZ 0.25W SOT2	Q602
08-MS82C01-MA300AA	12-13N03L-OBX	MOSFET-SMD N 30V 10.4AA 3.57W S08 PHKD13	Q110
08-MS82C01-MA300AA	09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	D102
08-MS82C01-MA300AA	09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	D602
08-MS82C01-MA300AA	09-0BAV99-ATX	D, SMD 70.0V 200MIO A 855MIOV 4N 0.25W SO	D501
08-MS82C01-MA300AA	09-0BAV99-ATX	D, SMD 70.0V 200MIO A 855MIOV 4N 0.25W SO	DT1
08-MS82C01-MA300AA	09-0BAV99-ATX	D, SMD 70.0V 200MIO A 855MIOV 4N 0.25W SO	D104
08-MS82C01-MA300AA	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R302
08-MS82C01-MA300AA	19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	R301
08-MS82C01-MA300AA	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R419
08-MS82C01-MA300AA	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R420
08-MS82C01-MA300AA	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R409
08-MS82C01-MA300AA	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R416
08-MS82C01-MA300AA	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R415
08-MS82C01-MA300AA	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R405
08-MS82C01-MA300AA	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R511
08-MS82C01-MA300AA	19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	R300
08-MS82C01-MA300AA	19-AB0100-JTX	RES SMD 10 OHM 1/10W +/-5%	R104
08-MS82C01-MA300AA	19-AB0100-JTX	RES SMD 10 OHM 1/10W +/-5%	R319
08-MS82C01-MA300AA	19-AB0100-JTX	RES SMD 10 OHM 1/10W +/-5%	R410
08-MS82C01-MA300AA	19-AB0100-JTX	RES SMD 10 OHM 1/10W +/-5%	R103
08-MS82C01-MA300AA	19-AB0100-JTX	RES SMD 10 OHM 1/10W +/-5%	R311
08-MS82C01-MA300AA	19-AB0000-FTX	SMD. RES 0 OHM 1/10W +/-1% 0603	R701
08-MS82C01-MA300AA	19-AB0000-FTX	SMD. RES 0 OHM 1/10W +/-1% 0603	RT9
08-MS82C01-MA300AA	19-AB0000-FTX	SMD. RES 0 OHM 1/10W +/-1% 0603	R116
08-MS82C01-MA300AA	19-AB0000-FTX	SMD. RES 0 OHM 1/10W +/-1% 0603	RT2
08-MS82C01-MA300AA	19-AB0000-FTX	SMD. RES 0 OHM 1/10W +/-1% 0603	R702
08-MS82C01-MA300AA	19-AB0000-FTX	SMD. RES 0 OHM 1/10W +/-1% 0603	RT8
08-MS82C01-MA300AA	13-T18273-HNB	IC SILICON TUNER IC TDA18273HN	UT1
08-MS82C01-MA300AA	19-GA0822-JTX	R-SMD 8K20HM 5% 1/16W 0402 -	R321
08-MS82C01-MA300AA	19-GA0680-JTX	SMD. RES 68 OHM 1/16W +/-5%	R564
08-MS82C01-MA300AA	19-GA0680-JTX	SMD. RES 68 OHM 1/16W +/-5%	R563
08-MS82C01-MA300AA	19-GA0680-JTX	SMD. RES 68 OHM 1/16W +/-5%	R565
08-MS82C01-MA300AA	19-GA0473-JTX	SMD. RES 47K OHM 1/16W +/-5%	R132

08-MS82C01-MA300AA	19-GA0473-JTX	SMD. RES 47K OHM 1/16W +/-5%	R530
08-MS82C01-MA300AA	19-GA0473-JTX	SMD. RES 47K OHM 1/16W +/-5%	R502
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R112
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R111
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R707
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R721
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R705
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R715
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R726
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R703
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R615
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R571
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R521
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R570
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R102
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R725
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R408
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	RT11
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C204
08-MS82C01-MA300AA	28-AB0104-KBX	CAP. CER, SMD 100NF 50.0V 0603 - +/-10% R=	C509
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C329
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C328
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C505
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C112
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C109
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C326
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C327
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C503
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C506
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C507
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C502
08-MS82C01-MA300AA	28-AA0225-KBX	CAP. CER, SMD 2U2F 10V DCV 0603 -	C124
08-MS82C01-MA300AA	25-GCB471-M1X	CAP. ELE 5MM 470UF 16V 8X12 105 /	C608
08-MS82C01-MA300AA	25-GCB221-M1X	CAP. ELE 5MM 220UF 16VV 6.3*11 105 \	C605
08-MS82C01-MA300AA	25-GCB221-M1X	CAP. ELE 5MM 220UF 16VV 6.3*11 105 \	C114
08-MS82C01-MA300AA	25-GCB221-M1X	CAP. ELE 5MM 220UF 16VV 6.3*11 105 \	C604
08-MS82C01-MA300AA	25-GCB221-M1X	CAP. ELE 5MM 220UF 16VV 6.3*11 105 \	C200
08-MS82C01-MA300AA	25-GCB101-M1X	CAP. ELE 5MM 100UF 16VV 5X11 105 /	C603
08-MS82C01-MA300AA	25-GCB101-M1X	CAP. ELE 5MM 100UF 16VV 5X11 105 /	C160
08-MS82C01-MA300AA	25-GCB101-M1X	CAP. ELE 5MM 100UF 16VV 5X11 105 /	C102
08-MS82C01-MA300AA	25-GCB101-M1X	CAP. ELE 5MM 100UF 16VV 5X11 105 /	C162
08-MS82C01-MA300AA	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R717
08-MS82C01-MA300AA	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R718
08-MS82C01-MA300AA	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R714
08-MS82C01-MA300AA	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R712
08-MS82C01-MA300AA	19-GA0183-FTX	R-SMD 18KOHM +/-1% 1/16W 0402 0402	R723
08-MS82C01-MA300AA	19-GA0151-JTX	R-SMD 150R0OHM 5% 1/16W 0402 -	R320
08-MS82C01-MA300AA	19-GA0121-JTX	SMD. RES 120 OHM 1/16W +/-5%	R325
08-MS82C01-MA300AA	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R200
08-MS82C01-MA300AA	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R474
08-MS82C01-MA300AA	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R704
08-MS82C01-MA300AA	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R528
08-MS82C01-MA300AA	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R210
08-MS82C01-MA300AA	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R469

08-MS82C01-MA300AA	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R470
08-MS82C01-MA300AA	19-GA0103-JTX	SMD. RES 10K OHM 1/16W +/-5%	R125
08-MS82C01-MA300AA	19-GA0102-JTX	SMD. RES 1K OHM 1/16W +/-5%	R312
08-MS82C01-MA300AA	19-GA0102-JTX	SMD. RES 1K OHM 1/16W +/-5%	RT7
08-MS82C01-MA300AA	19-GA0102-JTX	SMD. RES 1K OHM 1/16W +/-5%	R406
08-MS82C01-MA300AA	19-GA0102-JTX	SMD. RES 1K OHM 1/16W +/-5%	R129
08-MS82C01-MA300AA	19-GA0102-JTX	SMD. RES 1K OHM 1/16W +/-5%	R616
08-MS82C01-MA300AA	19-GA0102-JTX	SMD. RES 1K OHM 1/16W +/-5%	R503
08-MS82C01-MA300AA	19-GA0102-FTX	SMD. RES 1K OHM 1/16W +/-1%	R505
08-MS82C01-MA300AA	19-GA0102-FTX	SMD. RES 1K OHM 1/16W +/-1%	R506
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R710
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	RT10
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R573
08-MS82C01-MA300AA	19-GA0472-JTX	SMD. RES 4.7K OHM 1/16W +/-5%	R572
08-MS82C01-MA300AA	19-GA0471-JTX	SMD. RES 470 OHM 1/16W +/-5%	R313
08-MS82C01-MA300AA	19-GA0431-JTX	R-SMD 4300HM +/-5% 1/16W 0402 RC02J431G/	RT6
08-MS82C01-MA300AA	19-GA0332-JTX	SMD. RES 3.3K OHM 1/16W +/-5%	R127
08-MS82C01-MA300AA	19-GA0331-JTX	SMD. RES 330 OHM 1/16W +/-5%	R128
08-MS82C01-MA300AA	19-GA0331-JTX	SMD. RES 330 OHM 1/16W +/-5%	R126
08-MS82C01-MA300AA	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	RT15
08-MS82C01-MA300AA	19-GA0330-JTX	SMD. RES 33 OHM 1/16W +/-5%	RT16
08-MS82C01-MA300AA	19-GA0229-JTX	SMD. RES 1/16W 2.2 OHM ±5%	R339
08-MS82C01-MA300AA	19-GA0229-JTX	SMD. RES 1/16W 2.2 OHM ±5%	R338
08-MS82C01-MA300AA	19-GA0223-JTX	SMD. RES 22K OHM 1/16W +/-5%	R480
08-MS82C01-MA300AA	19-GA0223-JTX	SMD. RES 22K OHM 1/16W +/-5%	R133
08-MS82C01-MA300AA	19-GA0221-JTX	SMD. RES 220 OHM 1/16W +/-5%	R124
08-MS82C01-MA300AA	19-GA0221-JTX	SMD. RES 220 OHM 1/16W +/-5%	R314
08-MS82C01-MA300AA	19-GA0221-JTX	SMD. RES 220 OHM 1/16W +/-5%	R131
08-MS82C01-MA300AA	19-GA0221-JTX	SMD. RES 220 OHM 1/16W +/-5%	R323
08-MS82C01-MA300AA	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R719
08-MS82C01-MA300AA	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R716
08-MS82C01-MA300AA	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R720
08-MS82C01-MA300AA	19-GA0220-JTX	SMD. RES 22 OHM 1/16W +/-5%	R711
08-MS82C01-MA300AA	13-RT8110-DOB	IC POWER CONTROL IC RT8110D	U105
08-MS82C01-MA300AA	47-RCA334-XX0G	SOCKET-RCA N WH-GN-BU-RD-GN-BU 6PIN R N	P300
08-MS82C01-MA300AA	47-RCA335-XX0G	SOCKET-RCA N WH-RD-WH-RD 4PIN R N AV-4W0	P301
08-MS82C01-MA300AA	13-PMYD15-17P	IC MAIN AUDIO AMPLIFIER YD1517P	U601
08-MS82C01-MA300AA	67-H96287-0A0	RAW HEATSINK CHASSIS 00 00 R=Y	FOR U601
08-MS82C01-MA300AA	28-BB0105-KBX	CAP. CER, SMD 1UF 10% 50V 0.2 0805 CL21B10	C613
08-MS82C01-MA200AA	08-OMS8230-V80009	ASS'Y-软件组件 (MS82CD LA)	
08-OMS8230-V800092	V8-OMS8209-LF1V00	SOFT EM MS182 (MS82G LA/MS82T LA) FLASH	FOR U502
08-OMS8230-V800092	V8-MS182CD-LE1V00	SOFT CN MS82CD EEPROM	FOR U702
08-MS82C01-MA200AA	47-ANT059-XX0	SOCKET SILICON TUNER SHIELD ST N 018-F19	
H3-32E30T3-CUSCOAA	42-WDF309-XX2G	SPEAKER 40HM 5W 80 385HZ RECTANGLE 30MMX	
H3-32E30T3-CUSCOAA	46-BV010L-02J01G	WIRE SPEAKER WIRE 100MM 2PIN TJC3 (LOCK)	R SPEAKER
H3-32E30T3-CUSCOAA	46-CV020L-02J01G	WIRE SPEAKER WIRE 200MM 2PIN TJC3 (LOCK)	L SPEAKER
H3-32E30T3-CUSCOAA	46-FM035L-05P01G	WIRE IR WIRE 350MM 5PIN PH (LOCK) GH 2.0/	
H3-32E30T3-CUSCOAA	46-MM015L-04P01G	WIRE 4 PIN GH TO GH CONNECT CABLE 150MM	
H3-32E30T3-CUSCOAA	46-YY021C-60Z03G	WIRE FFC 210MM 60PIN 0.5 0.5 0.5MM UL#0.	CONNECT M
H3-32E30T3-CUSCOAA	49-R03P80-BAT	BATTERY 1.5V	
H3-32E30T3-CUSCOAA	51-BC0200-OLN0HG	POWER CORD 2000MM A3963T-P 2 DTI-2P-02	
H3-32E30T3-CUSCOAA	55-988730-2HW6R	DEC BACKCOVER 32E3020 SBC -- 00 00 00 R=	
H3-32E30T3-CUSCOAA	56-883510-1HD6RG	PAI FASTENER CABLE CLIP -- 00 1HD R=Y	
H3-32E30T3-CUSCOAA	56-898130-OHA6R	RAW KEY ALL MODEL R=N	

H3-32E30T3-CUSC0AA	56-898140-0HA1E	DEC SUPPORT KEY CLUSTER -- 00 -- 00 R=N	
H3-32E30T3-CUSC0AA	56-947640-1HA1A	DEC STAND STAND -- 00 00 00 R=N	
H3-32E30T3-CUSC0AA	56-955340-7HN6R	DEC SUPPORT SIDE AV SUPPORT -- 00 00 00	主板侧端
H3-32E30T3-CUSC0AA	56-989200-0HZ6R	DEC COVER 32E3020 KEY COVER 黑色 00 00 00	
H3-32E30T3-CUSC0AA	58-956330-6UI1A	PRI OVERLAY 32E3020 SIDE AV SHEET -- 00	侧端子支
H3-32E30T3-CUSC0AA	58-HE30MP-JKL1F	PRI OVERLAY RATING L32E3020 MS82CD-AP R=	
H3-32E30T3-CUSC0AA	59-849080-002	RAW BUFFER RUBBER 0 0 R=Y	贴于底座
H3-32E30T3-CUSC0AA	62-989230-0UK	RAW STAND 32E3020 STAND SUPPORT -- 00 00	
H3-32E30T3-CUSC0AA	74-004006-12C1A	DEC BAG SPECIAL FOR SCREWS OF WALL MOUNT	装壁挂螺
H3-32E30T3-CUSC0AA	64-C60120-105G	SCREW 6MM 10MM ISO 53 R=Y	壁挂螺丝
H3-32E30T3-CUSC0AA	81-ES282C2-PL290A	PSU 45W ES282C2	