TOSHIBA

SERVICE MANUAL

LCD Color Television

26EL66Z Ver. 1

This model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).

For (*1) and (*2), refer to **GREEN PRODUCT PROCUREMENT** and **LEAD-FREE SOLDER**.

GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86ºF to 104ºF (30ºC to 40ºC). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

IMPORTANT NOTICE

A Known Malfunction

Autodesk® DWF™ Viewer version
(Free software provided through WEB)

Use Autodesk DWF Viewer ver. 6.0.
Through WEB, ver. 6.5 has been released but with it, the linking function in this manual may not work properly.
If ver. 6.5 has been installed, uninstall it and reinstall ver. 6.0.

To get ver. 6.0, click the icon, or contact to the nearest Toshiba Service Centre for further assistance.

Freezing windows opened
(Cannot close the open windows)

This may happen occasionally.
In case of encountering this, follow the procedure below.

1. Press [Ctrl], [Alt] and [Delete] keys at the same time to engage windows security windows.
2. Then, choose TASK manager and Application tab, and select TOSHIBA SERVICE MANUAL-Microsoft Internet Explorer.
3. Click TASK-end.

Main Window back forwarded

The real cause has not been found yet but with this condition, nothing disturbs the service manual operation.

Continue to use by operating the windows.

Precaution when opening the diagrams

While opening the diagrams, the menu in the left frame changes its color to GRAY. This is an indication that the viewer is processing.

With this condition, the menu indication color may stick to the GRAY color or Windows may freeze if clicking other menu.

To avoid such things, do not operate any others while menu turns GRAY color.

If entering this, re-open the service manual or refresh the left frame.

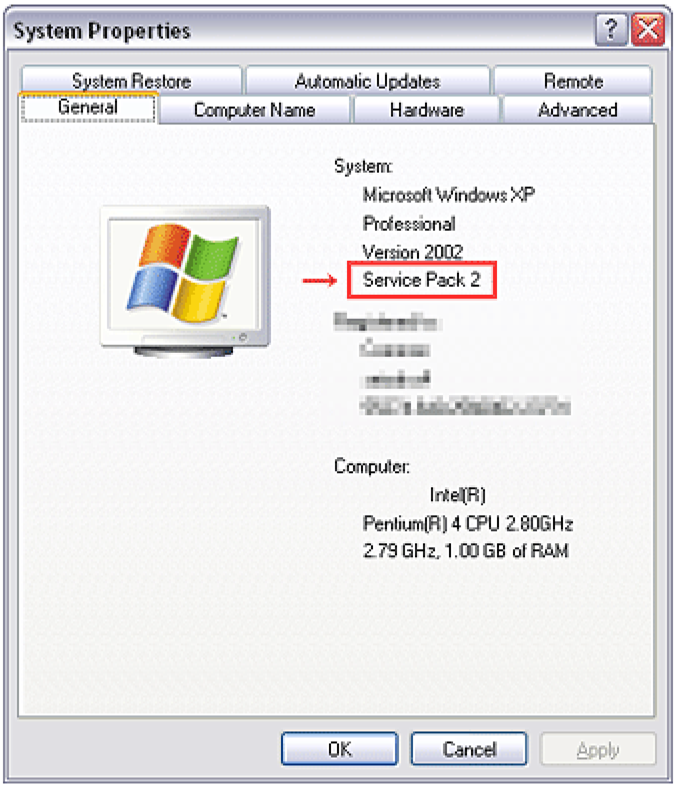
IMPORTANT NOTICE

User Guide

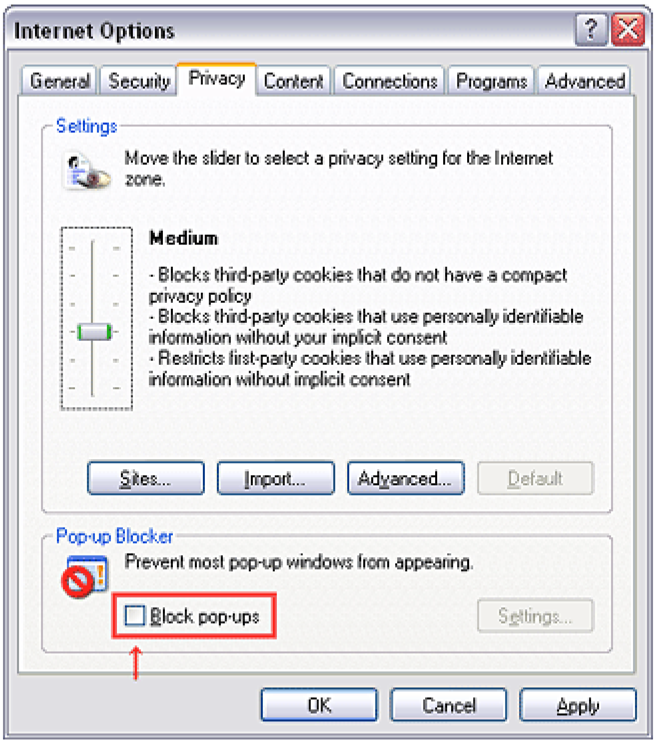
Autodesk® DWF™ Viewer is necessary to view drawings and to activate the functions of this system. Please download and install.

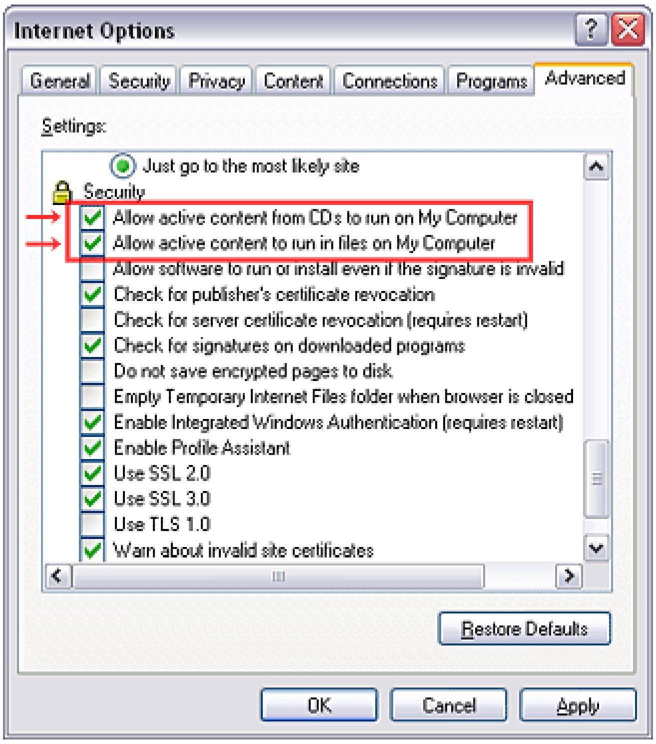
When **Windows XP SP2** is used, pop-up windows are limited by the enhanced security function and this sample may not work. In that case, perform the Internet Explorer setting using the following procedure to restore normal operation.

1. Windows version check
   [My Computer (right-click)] - [Properties]



2. Internet Explorer setting
   [Tools] - [Internet Options]





Operating Environment

PC	:	Pentium III or higher recommended
Monitor	:	1024 x 768 or higher resolution recommended

Mouse	:	A mouse with wheel recommended
OS	:	Microsoft Windows 2000/XP
Browser	:	Microsoft Internet Explorer 6.0 or later
Drawing viewer	:	Autodesk DWF Viewer 6.0

* Use the software following respective license terms and conditions.

Note:

In case of using this service manual with network connection, allocate its folder to the client PCs as **network drive** to avoid any possible malfunction.

Or in case of accessing it through WEB site, the small pop-up window appears at the left bottom corner on the screen whenever searching the location links. This is not malfunction.

Functions Provided on Each Drawing Page

Parts Information Reference Function

When the character string of a part on the drawing is clicked, its information is popped up at the location. You can get any parts information immediately on the screen without referring to the maintenance parts list.

Parts Search Function

You can search any part within the displayed drawing or within the whole schematic diagram/board view by specifying a location number. The pop-up window displayed by clicking a part's character string allows to search the part within the applicable schematic diagram, board view or spare parts list.

A circle appears when the part is found, showing the part's location within the drawing.

Signal Line/Connector Destination Display Function

When a name at the end of a signal line in a divided schematic diagram is clicked, the destination of the signal is searched and the display changes to the destination. Connecter destinations can also be searched in the same way.

When two or more search results are provided, their drawing names are displayed, allowing you to choose a desired drawing to display.

Layer Display Changing Function

When any of the color buttons on the toolbar is clicked, it can be selected to display desired layer in its color or not to display each layer. This allows you to see the pattern layer only by setting other layers to "non-display".

PC Board View Pattern Highlighting Function

When a pattern on a board view is clicked, it is highlighted in green. This allows easy pattern tracing.

Specified Area Printing Function

The Autodesk DWF Viewer enables to print the displayed drawing region as it is on a printer. It also allows to print a large-sized drawing in multiple pieces (tile printing).

IMPORTANT NOTICE

WARNING:

You are requested that you shall not modify or alter the information or data provided herein without prior written consent by Toshiba. Toshiba shall not be liable to anybody for any damages, losses, expenses or costs, if any, incurred in connection with or as a result of such modification or alteration.

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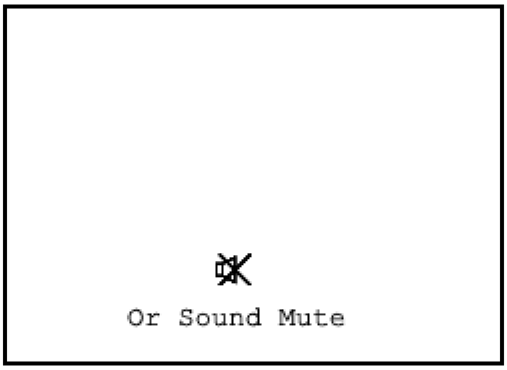
ADJUSTMENT

Service Mode

Entering to Service Mode



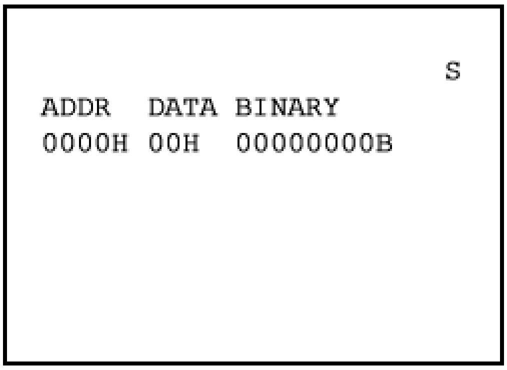
1. Set VOLUME to minimum and press button once on remote control.

↓

2. Press button again and hold button down.

↓

Service Mode display



3. While holding the button, press MENU button on TV set.

Displaying the Adjustment Menu

Press MENU button on TV.

Service Mode

```
                              S
```

Press ↑ ↓ Press

Adjustment Mode

```
                              S
 ADDR   DATA  BINARY
 0000H  00H   00000000B
```

Key Function in the Service Mode

The following key entry during display of adjustment menu provides special functions.

CAUTION: Never try to perform initialization unless you have changed the memory IC.

	button (on remote control)

Test signal selection	
Selection of the adjustment items	CH ▲/▼ (on TV or remote control)
Change of the data value	Volume ◿ +/- (on TV or remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (QA02)	CALL + CH button on TV (▲)
Reset the count of operating protect circuit to "00"	CALL + CH button on TV (▼)
"RCUT" selection	1 button
"GCUT" selection	2 button
"BCUT" selection	3 button
"CNTX" selection	4 button
"COLC" selection	5 button
"UVTT" selection	6 button
Automatic A/D Adjustment (PC, Component, Composite (PAL, NTSC))	7 button
Self diagnostic display ON/OFF	9 button

Selecting the Adjusting Items

Every pressing of CH ▲ button in the service mode changes the adjustment items in the order of table below. (▼ button for reverse order)

SETTING & ADJUSTING DATA

[SERVICE MODE]

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Note:

The image system data of RCUT-BDRV is different by each image format.
The PAL value is indicated in the table.
Never adjust H.POS and V.POS except PAL/WIDE mode.

Item	Name of adjustment	Preset	Data
RCUT	R CUT OFF	00H	←
GCUT	G CUT OFF	00H	←
BCUT	B CUT OFF	00H	←
RDRV	R DRIVE	7EH	←
GDRV	G DRIVE	80H	←
BDRV	B DRIVE	88H	←
BRTC	BRIGHTNESS CENTER	03H	←
COLC	COLOR CENTER	A8H	←
UVTT	BASE BAND TINT	04H	←
CNTX	CONTRAST MAX	86H	←
VOLUX	MAX VOLUME LIMITED	7FH	←
PLLW0	PLL WAIT TIME	14H	←
PLLW1	PLL WAIT TIME	03H	←
PLLW2	PLL WAIT TIME	0FH	←
PLLW3	PLL WAIT TIME	05H	←
PLLW4	PLL WAIT TIME	14H	←
PLLW5	PLL WAIT TIME	04H	←
OPT2	TV SET OPTION 2 (HOTEL MODE)	00H	←

Adjusting the Data

Pressing of VOLUME ◿ +/- button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

Exit from Service Mode

Pressing POWER button to turn off the TV once.

Initialization of Memory Data of QA02

After replacing QA02, the following initialization is required.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the remote control, then press the CH ▲ button on the TV.
   The initialization of QA02 has been completed.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
   Perform "Auto tune" on the owner's manual.

Test Signal Selection

Every pressing of button on the remote control changes the built-in test patterns on screen as described below in Service Mode.

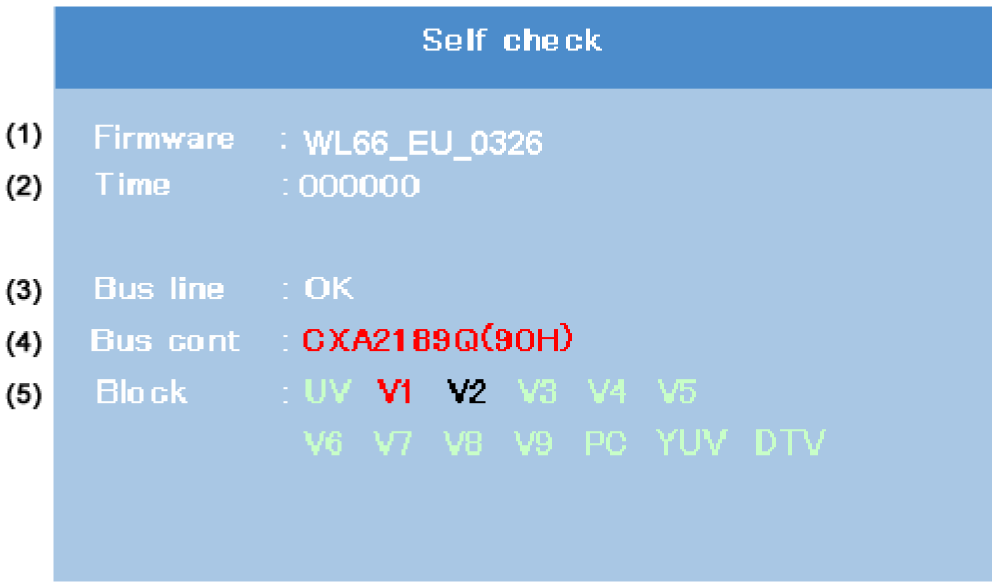
Signal off → R → G → B
↑ All White ← All Black ←

Picture	Signal
	Red raster
	Green raster
	Blue raster

	All Black
	All White

Self Diagnostic Function

1. Press "9" button on remote control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's is executed properly.
2. During diagnosis, the following displays are shown.



(1) Firmware :
Version information of microprocessor
In case of file name : WL66_EU and Version : 0326 indicates [WL66_EU_0326].

(2) Time : Total hour of turn the TV on. (Unit : H)

(3) Bus line : -- "OK" is normal
SCL-GND (Red indication) : SCL-GND short circuit

SDA-GND (Red indication) : SDA-GND short circuit
SCL-SDA (Red indication) : SCL-SDA short circuit

(4) Bus cont : --- "OK" is normal.
NG is abnormal (Red indication).
When the abnormal status is detected, type name of semiconductor is indicated in in red colour.

(5) Block
UV : TV reception mode
V1 - V9 : VIDEO 1-9 input mode
PC : PC mode
YUV : YUV mode
DTV : DTV mode

	WL66Ps/WL66Zs/WLT66s/WLG66s
UV	RF
V1	1 (SCART (FULL))
V2	2 (SCART (S+AV))
V3	3 (Composite/Component)
V4	HDMI1
V5	HDMI2
V6	--
V7	--
V8	--
V9	--
PC	PC
YUV	--
DTV	--

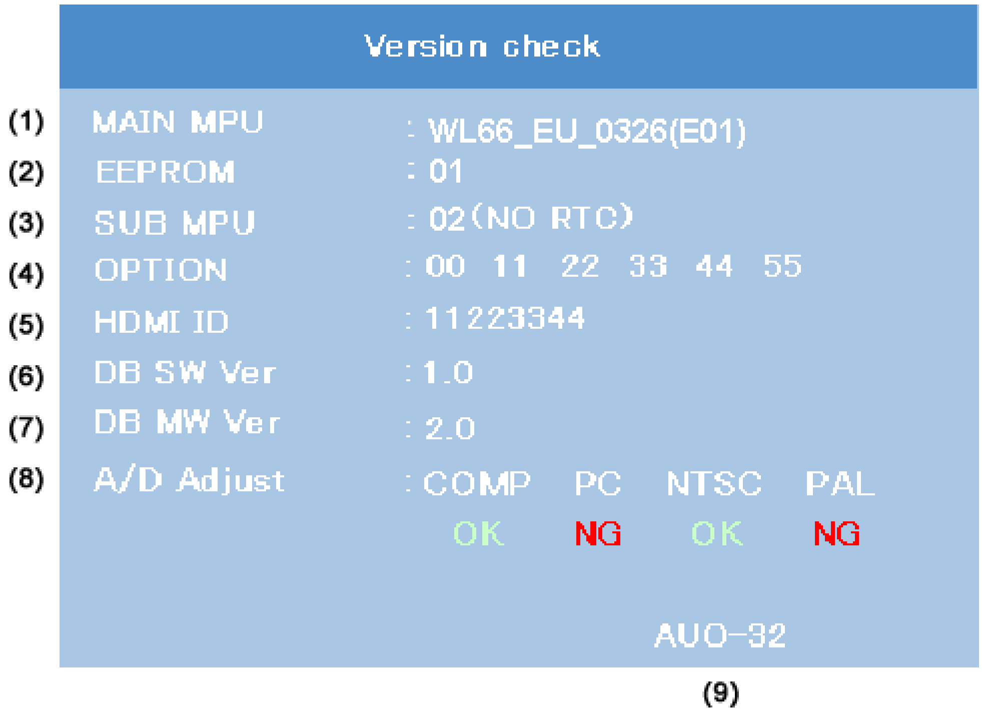
Version Check Mode

1. Press "9" button twice on remote control during display of adjustment menu in the

service mode.

The version of main MPU will be checked.

2. During Version Check, the following displays are shown.



(1) MAIN MPU :

Version information of microprocessor

In case of file name : WL66_EU, Version 0326 for Code Program Version and (E01) for OSD Version indicates [WL66_EU_0326 (E01)]

(2) EEPROM :

Version information of EEPROM : Display 1 byte data.

(3) SUB MPU :

Version information of SUB MPU : Display 1 byte data.

(4) OPTION :

Option information : Display six numbers of 1 byte data.

(5) HDMI ID :

HDMI ID information : Display 4 byte data.

(6) SW Ver

Version information of DB software. (Only digital model.)

(7) MW Ver

Version information of DB software middleware. (Only digital model)

(8) A/D Adjust

A/D adjustment item.

--COMP : Component input

--PC : PC input

--PAL : PAL (50 Hz) SD signal (composite input)

--NTSC : NTSC (60 Hz) SD signal (composite input)

--OK : A/D adjustment set correctly.

--NG : A/D adjustment set incorrect.

(9) LCD Panel Vender information display

The following Panel Vender and screen size are displayed.

Panel Vender	Screen Size (Inch)
LPL	-26
SHP	-32
CMO	-37
AUO	-42 -47

Example : AUO-32 indicates that Vender is AUO and Screen Size is 32 inch.

Status Check Mode

1. Press "9" button thrice on remote control during display of adjustment menu in the service mode.
   The status of this model will be checked.

2. During Status Check, the following displays are shown.

	Status check	
(1)	MAIN	: EXT1
(2)	MAIN FORMAT	: 1080i-60
(3)	MAIN PLL	: C6 38 54 CE 08
(4)	SUB	: 11
(5)	SUB FORMAT	: 576i
(6)	SUB PLL	: C6 38 54 CE 08
(7)	SCREEN SIZE	: Super live 1
(8)	OTHER STATUS	: 0000 0000 0000

(1) MAIN :

Main source information :

Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

(2) MAIN FORMAT :

Display Video and PC format information

(3) MAIN PLL :

Main PLL information : Display 1 byte data at five.

(4) SUB :

Sub source information :

Display RF position number (0 - 99) on the Sub screen, or Input Source (EXT1/2/3/HDMI etc.)

This item displays only Double window model.

(5) SUB FORMAT :

Display Video and PC format information

This item displays only Double window model.

(6) SUB PLL :

Sub PLL information : Display 1 byte data at five.

This item displays only Double window model.

(7) SCREEN SIZE :

Display the screen size as follows.

Exact Scan
Wide

Super Live 2
Cinema 2
4:3
Super Live 1
Cinema 1
Subtitle
14:9

(8) OTHER STATUS :

Other status information : Display three numbers of 2 byte data.

Setting Hotel Mode

Enter to service mode and select Hotel Mode menu by pressing P▲ or P▼.
After selecting Hotel Mode, press ◿ + to enter details setting in Hotel Mode.

To select menu, press P▲ or P▼ and press OK to enter the adjustment menu of OPT2.
To move the cursor in the adjustment, press ◿ + or ◿ -.

1. By pressing P▲ or P▼, OPT2 setting will change the value either 1 or 0 on selected items as follows;

OPT2	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	POS1 stored program will appear in forced when turn ON the main power	POS1 in forced	Disable
D6 (bit6)	VIDEO1 stored program will appear in forced when turn ON the main power	VIDEO1 in forced	Disable
D5 (bit5)	FRONT Key	Disable	Enable
D4 (bit4)	Front keys except input selector key (Video/TV)	Disable	Enable
D3 (bit3)	User remote control operation	Disable (Service mode and Super User mode may possible to setting only)	Enable
D2 (bit2)	Language display except SETUP MENU language	Disable Display the language only	Enable

	(tuning adjustment etc.)		
D1 (bit1)	SETUP MENU	Disable	Enable
D0 (bit0)	HOTEL Mode	On (Enable the setting of D1 to D7)	Off (Normal)

LED Indications

The Green and Red LEDs on the TV (at the bottom center of the TV) indicate the TV's status, as described below.

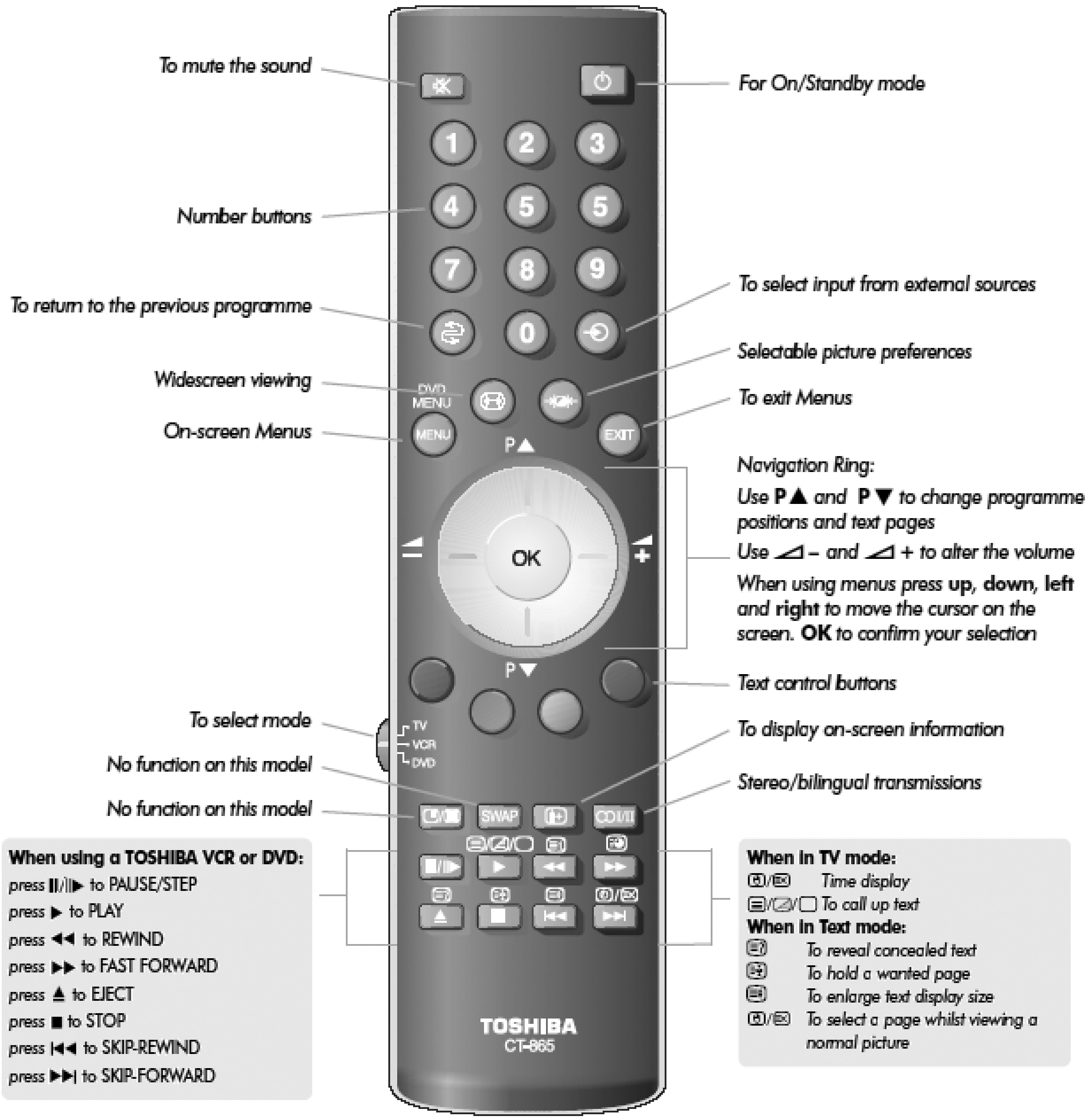
- Red ON (solid) and Green OFF = The TV power cord is plugged in.
- Green ON (solid) and Red ON = The On timer is operating.

	LED Indication	Condition	Solution
1	Green is OFF; Red blinks continuously at 0.5-second intervals.	Abnormal operation	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
2	Green is OFF; Red blinks continuously at 1-second intervals.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

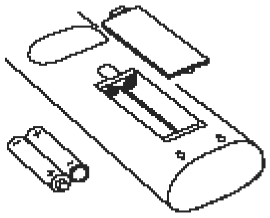
FUNCTION AND OPERATION

The Remote Control

Simple at-a-glance reference of your remote control.



Inserting Battery and Effective Range of the Remote

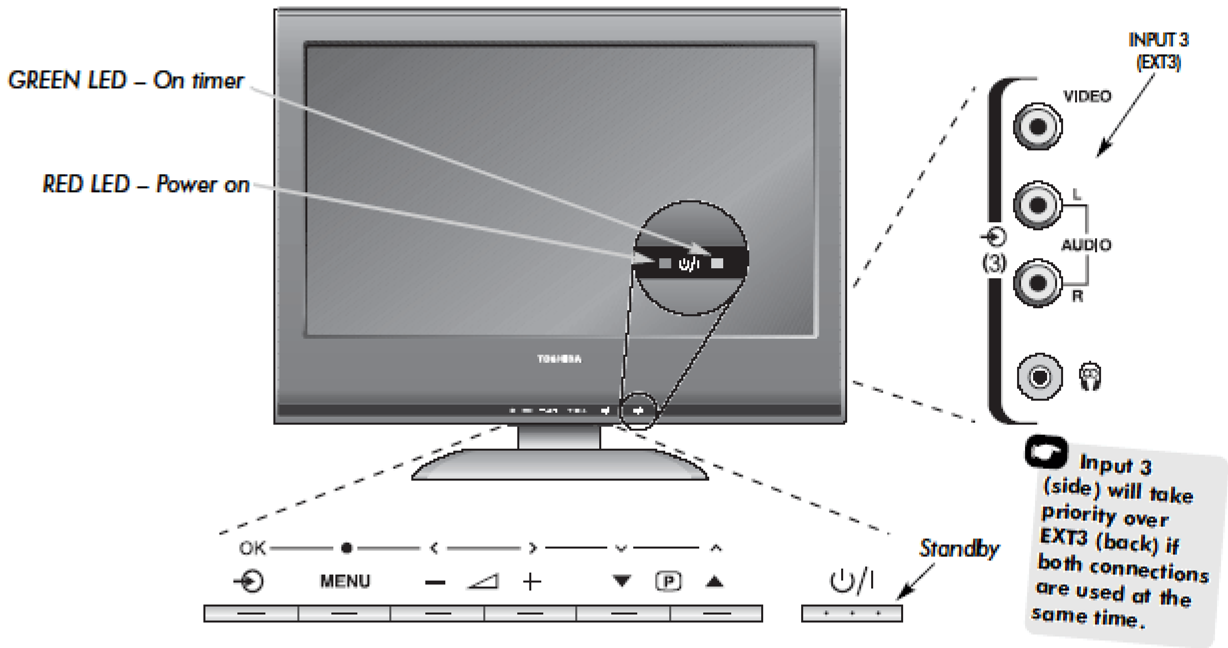


Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the right way round. Suitable battery types for this remote are AAA, IEC R03 1.5V.
Do not combine a used, old battery with a new one or mix battery types. Remove dead batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in a designated disposal area.
The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced the
batteries may need replacing.

FUNCTION AND OPERATION

Control and Input Connection

A wide variety of external equipment can be connected to the input sockets on the side of the television.
Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.



Switching On

If the RED LED is unlit check that the mains plug is connected to the power supply. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control. To view the television press ⏻ again. The picture may take a few seconds to appear.

To set up the television you will now need to use the on-screen menus. Press the **MENU** button on the remote control to see the menus.

The menu bar at the top of the screens will show five different topics shown in symbols. As each symbol is selected by pressing **left** or **right** on the navigation ring on the remote control, its respective options will appear below.

To use the options, press **down** on the navigation ring to move down through them and **OK**, **left** or **right** to select the required choice. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Control and Connection

To alter the volume press – ◺ +.

To alter the programme position press ▼ Ⓟ ▲.

Press **MENU** and ‹, ›, ˄ or ˅ to control the sound and picture options.

Press **MENU** to finish.

When connecting sound equipment to **EXT3**, connect the audio output of the equipment to the phono sockets on the television.

To select the Input, press ⊕ until the display shows **EXT3**. The television will automatically sense the type of signal.

Please always refer to the owner's manual of the equipment to be connected for full details.

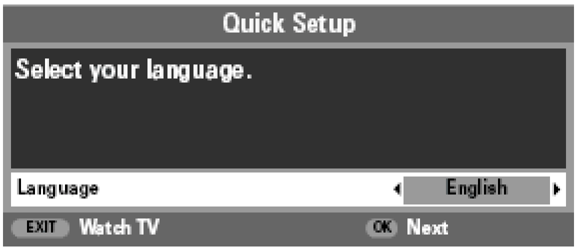
Please note: Inserting the headphone plug will mute the sound from all speakers.

FUNCTION AND OPERATION

Tuning the Television Using Quick Setup, Sorting Programme Position

Before switching on the television put your decoder and media recorder to **Standby** if they are connected.
To set up the television use the buttons on the remote control.

1. Connect the television to the mains power. The **Quick Setup** screen will appear.



2. Using **left** or **right** select your **language**, then press **OK**.

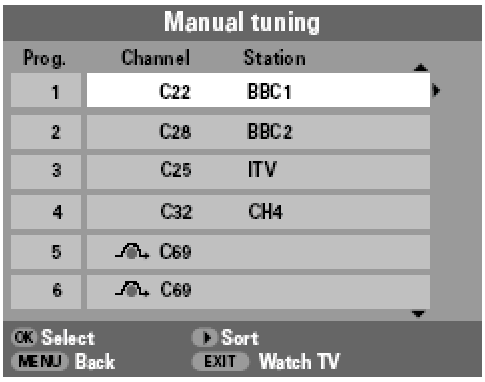
3. Then press **left** or **right** to select your **country** and press **OK**.

4. To start **Auto tuning** press **OK**.

5. The search will begin for all available stations. The slide bar will move along the line as the search progresses.

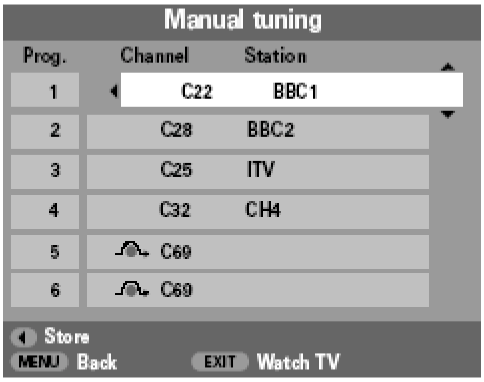
You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This may not be a clear picture or the signal may be weak, so the station order can be changed using **Manual tuning** which will appear on the screen.



6 With the list of stations now showing use **up** or **down** to highlight the station you want to *move* and press **right**.

The selected station will be moved to the right of the screen.



7 Use **up** or **down** to move through the list to your *preferred* position. As you do so the other stations will move to make room.

8 Press **right** to store your move.

Repeat as necessary, then press **EXIT**.

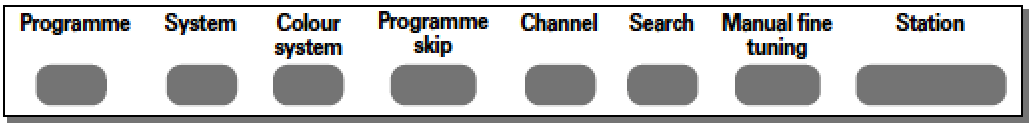
If the television cannot be connected to a media recorder/decoder with a SCART lead or if a station on another ***system*** is required, use **Manual tuning** to allocate a programme position.

FUNCTION AND OPERATION

Manual Tune

The television can be tuned-in manually using **Manual tuning**. For example: if the television cannot be connected to a media recorder/decoder with a SCART lead or to tune-in a station on another **System**.

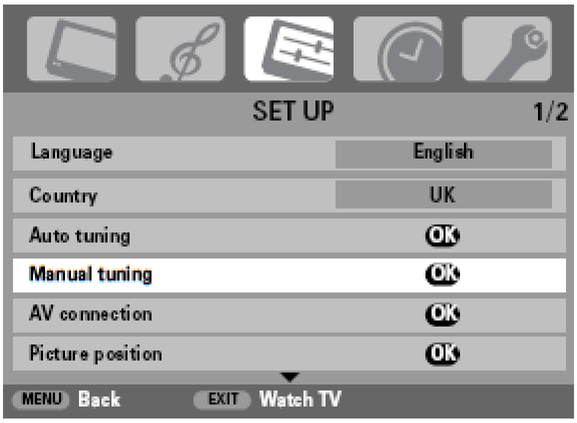
Use **left** and **right** to move across the screen and select any of these Manual Tune options.



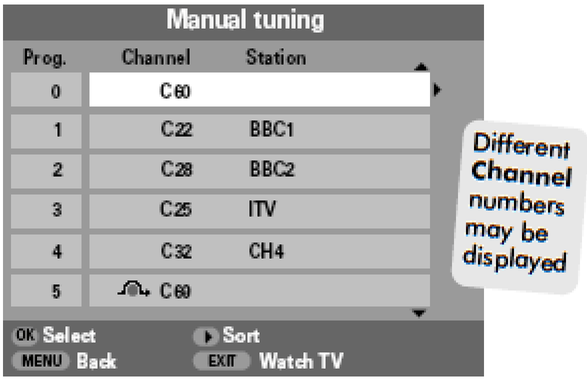
Programme	:	**The number to be pressed on the remote control.**
System	:	**Specific to certain areas.**
Colour system	:	**Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.**
Programme skip	:	 **means nothing has been stored or the facility to skip the channel is ON.**
Channel	:	**The channel number on which a station is being broadcast.**
Search	:	**Search up and down for a signal.**
Manual fine tuning	:	**Only used if interference/weak signal is experienced.**
Station	:	**Station identification. Use up or down and left or right to enter up to seven characters.**

To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder and press PLAY, then manually tune.

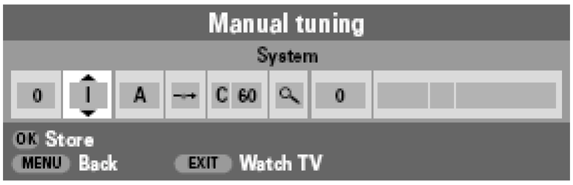
1. Press **MENU** and using **left** or **right** select the **SET UP** menu, with **down** highlight **Manual tuning**, press **OK** to select.



2. Use **up** or **down** to highlight the programme position required e.g. we suggest ***Prog. 0*** for a media recorder.



3. Press **OK** to select. If the programme is skipped, **Programme skip** must be removed before storing.



4. Press **right** to select **System** and use **up** or **down** to change if required.

5. Then press **right** to select **Search**.

6. Press **up** or **down** to begin the search. The search symbol will flash.

7. Each signal will show on the television, if it is not your media recorder, press **up** or **down** again to restart the search.

8 When your media recorder signal is found, press **left** to move along to **Station**. With **up**, **down**, **left** and **right** put in the required characters, e.g. **VCR**.

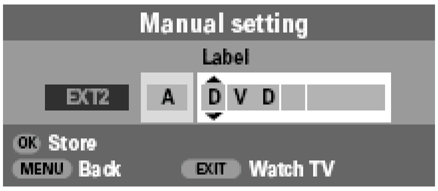
9 Press **OK** to store.

10 Repeat for each ***programme position*** you want to tune or, press **MENU** to return to the list of channels and select the next number to tune.

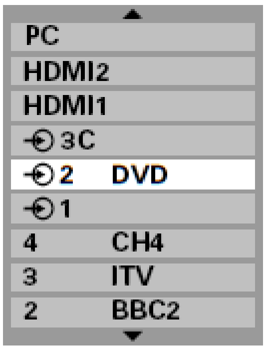
11 Press **EXIT** when you have finished.

12 To name external equipment, e.g. DVD on EXT2, press ⊕ to select **EXT2**, then select **Manual setting** from the **SET UP** menu.

13 Press **right** to select **Label** then using **up**, **down**, **left** and **right** put in the required characters.



14 At any time by pressing **OK** a list will appear on screen showing all stored programmes and external equipment. Use **up** and **down** to highlight and **OK** to select.



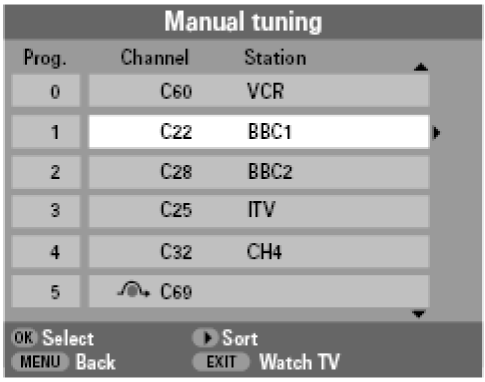
PLEASE NOTE This television has direct channel entry if the channel numbers are known. Select the **Manual tuning** screen in ***Step 3***. Enter the **Programme number**, the **System**, then the **Channel** number. Press **OK** to store.

FUNCTION AND OPERATION

Programme Skip

To prevent certain programmes from being viewed, the programme position can be skipped. The remote control must be removed as the channels will still be available using the number buttons. Programmes can then be watched as normal using the controls on the television, but the television will not show the skipped programme position.

1. Select **Manual tuning** from the **SET UP** menu.



2. Use **up** or **down** to highlight the programme position to be skipped and press **OK** to select.

3. Press **right** to select **Programme skip**.

4. Use **up** or **down** to turn **Programme skip** on. Press **OK**.

on the screen indicates a skipped programme position.

5. Press **MENU** and repeat from ***Step* 2** or press **EXIT**.

Each programme position has to be *individually* selected. To turn **Programme skip** off, repeat the procedure for each position.

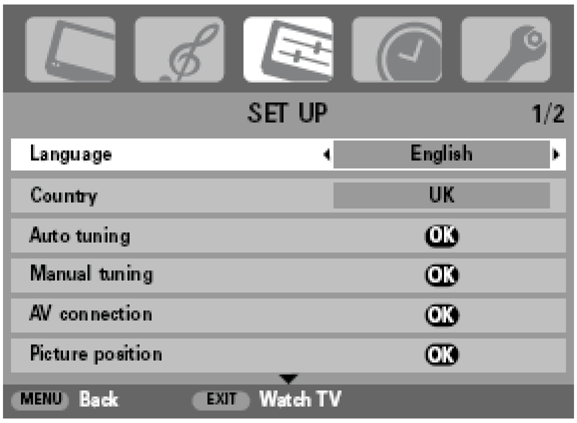
Skipped programme positions ***cannot*** be selected by **P▲** and **P▼** or by the controls on the television, but ***can*** still be accessed by the number buttons on the remote control.

FUNCTION AND OPERATION

Auto Tune, General Control, Sound Control

Using Auto Tuning

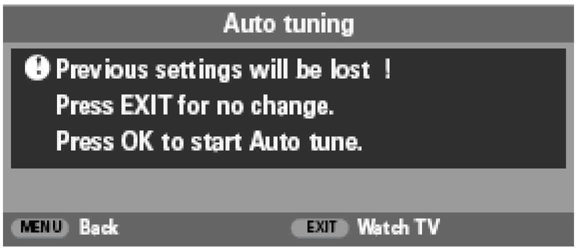
1 To set up the television using **Auto tuning**, press **MENU** and use **left** or **right** to select the **SET UP** menu.



2 Press **down** to highlight **Language** and **left** or **right** to select.

3 Using **down** highlight **Country**, then **left** or **right** to select. The television will now tune the stations for your country.

4 Press **down** to highlight **Auto tuning**, then press **OK**.



5 To start **Auto tuning** press **OK**.

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This may not be a clear picture, so the station order can be changed using **Manual tuning**.

Selecting Programme Position

To select a programme position use the numbered buttons on the remote control.

Programme positions can also be selected using **P▲** and **P▼**.

To revert to the previous programme position press ⇆.

To display on-screen information *i.e.* programme position, input mode or stereo/mono signal, press [i+]. Press again to cancel.

SAFETY INSTRUCTION

Handling the LCD Module

Safety Precaution

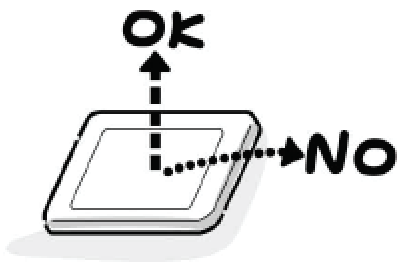
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

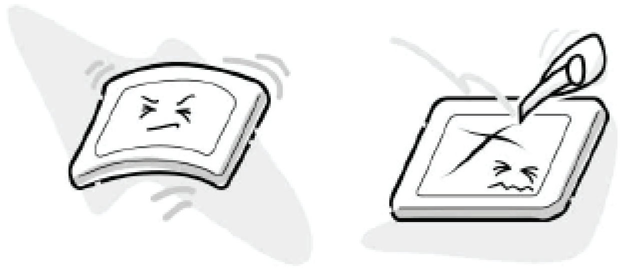
CAUTION: The metal edges of the LCD module are sharp, handle it with care.

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



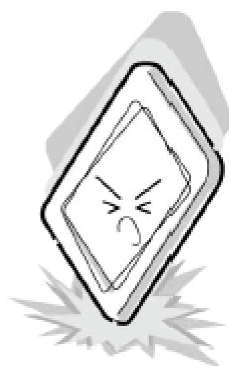
2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.



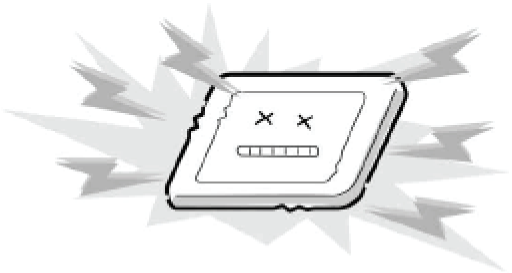
3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
   If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.

4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

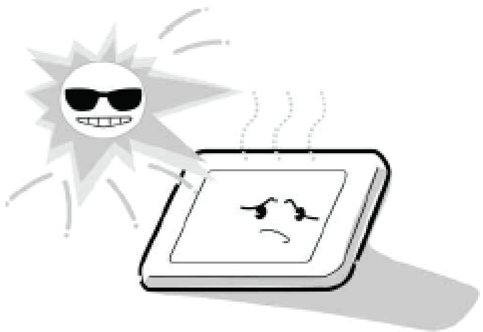
5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.



6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.

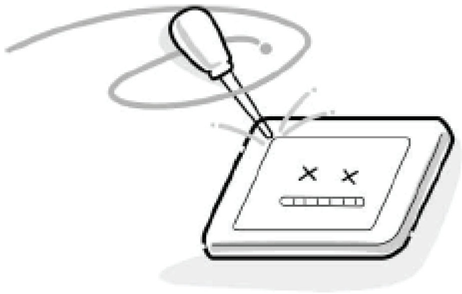


7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

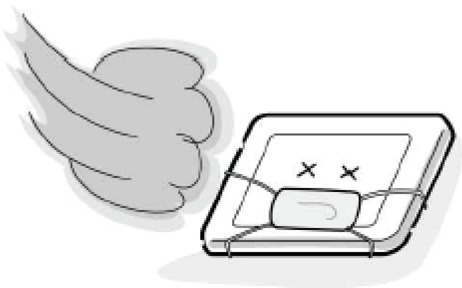


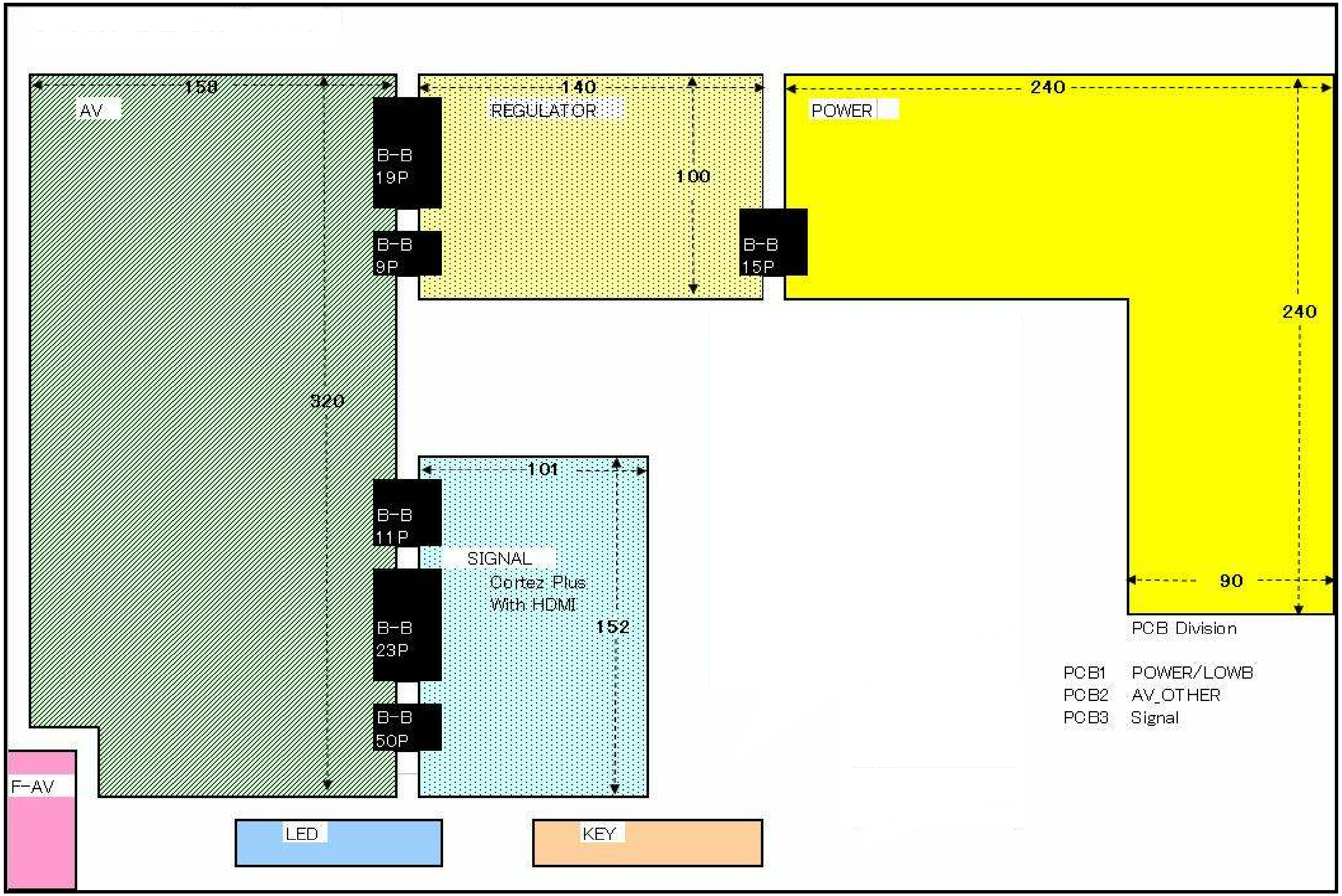
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.




AV
158
320
REGULATOR
140
100
POWER
240
240
90
B-B
19P
B-B
9P
B-B
15P
B-B
11P
B-B
23P
B-B
50P
SIGNAL
Cortez Plus
With HDMI
101
152
F-AV
LED
KEY
PCB Division
PCB1 POWER/LOWB
PCB2 AV_OTHER
PCB3 Signal

SAFETY INSTRUCTION

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.

4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.

5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.

6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as

inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.

7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.

8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.

9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.

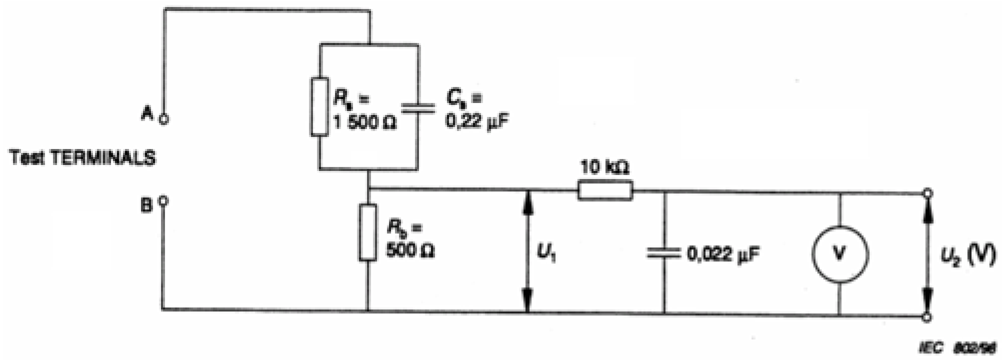
10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)

    - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.

    - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.

Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : ≥ 1 MΩ
Input capacitance : ≤ 200 pF
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = U_2/500 (peak value).

- The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 does not exceed the following value:

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

   The TOUCH CURRENT expressed as voltages U_1 and U_2, does not exceed the following values:
   - for a.c. : U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
   - for d.c. : U_1 = 1.0 V

Note: The limit values of U_2 = 0.35 V (peak) for a.c. and U_1 = 1.0 V for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

SPECIFICATION

Broadcast systems/channels

PAL-I	UHF	UK21-UK69
PAL-B/G	UHF	E21-E69
	VHF	E2-E12, S1-S41
SECAM-L	UHF	F21-F69
	VHF	F1-F10, B-Q
SECAM-D/K	UHF	R21-R69
	VHF	R1-R12

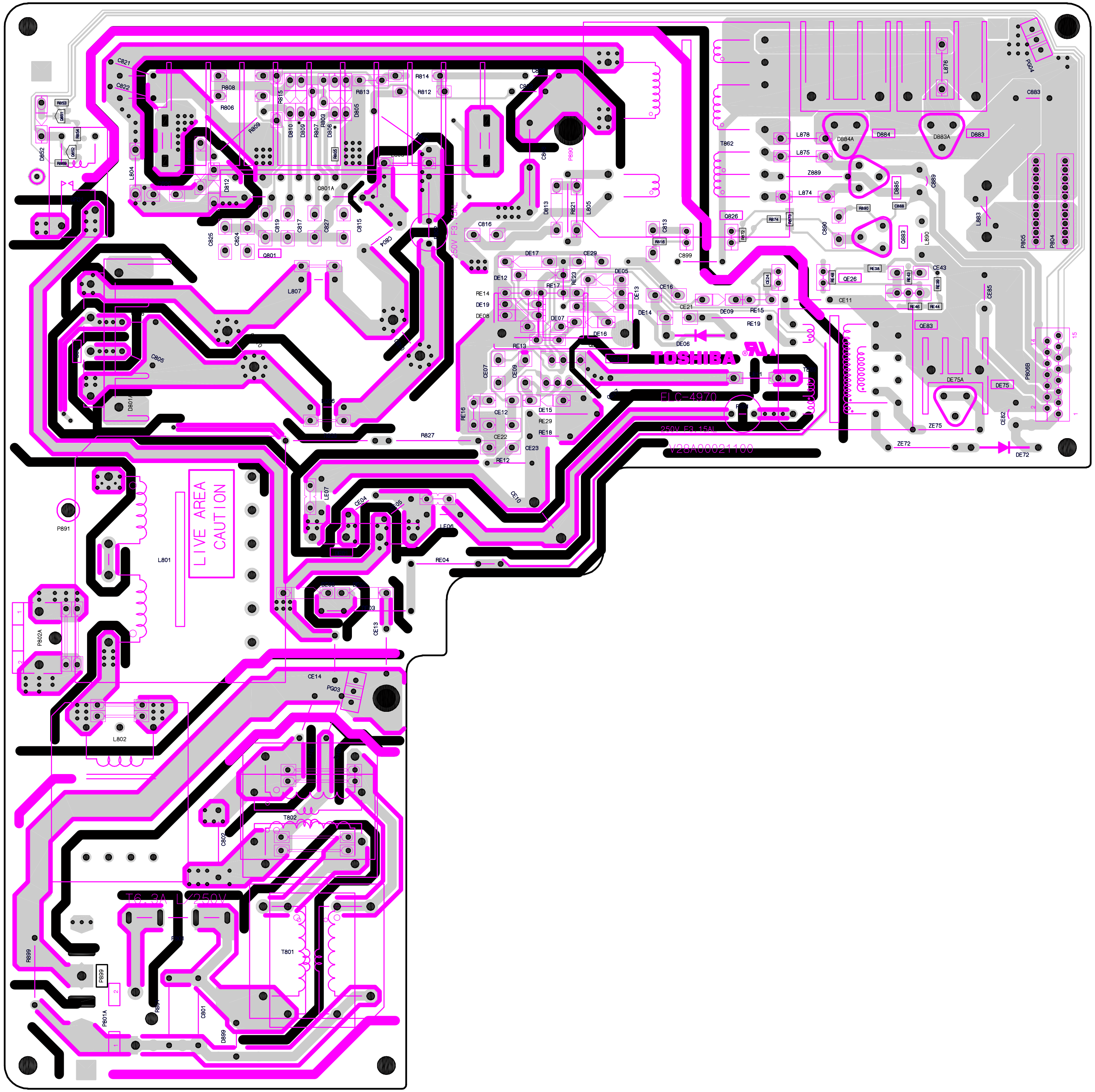
Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input	21-pin SCART	RGB, A/V
EXT2	Input	21-pin SCART	A/V, S-video
EXT3	Input	Phono jacks	Y, P_B/C_B, P_R/C_R
		Phono jacks	A/V
EXT3	Input (Side)	Phono jack	Video
		Phono jacks	Audio L + R
HDMI 1/2	Input	HDMI connector	
PC	Input	Mini D-sub 15-pin	Analog RGB signal
PC/HDMI1	Audio	Phono jacks	Audio L + R
Audio Ouput Fixed/Variable		Phono jacks	Audio L + R

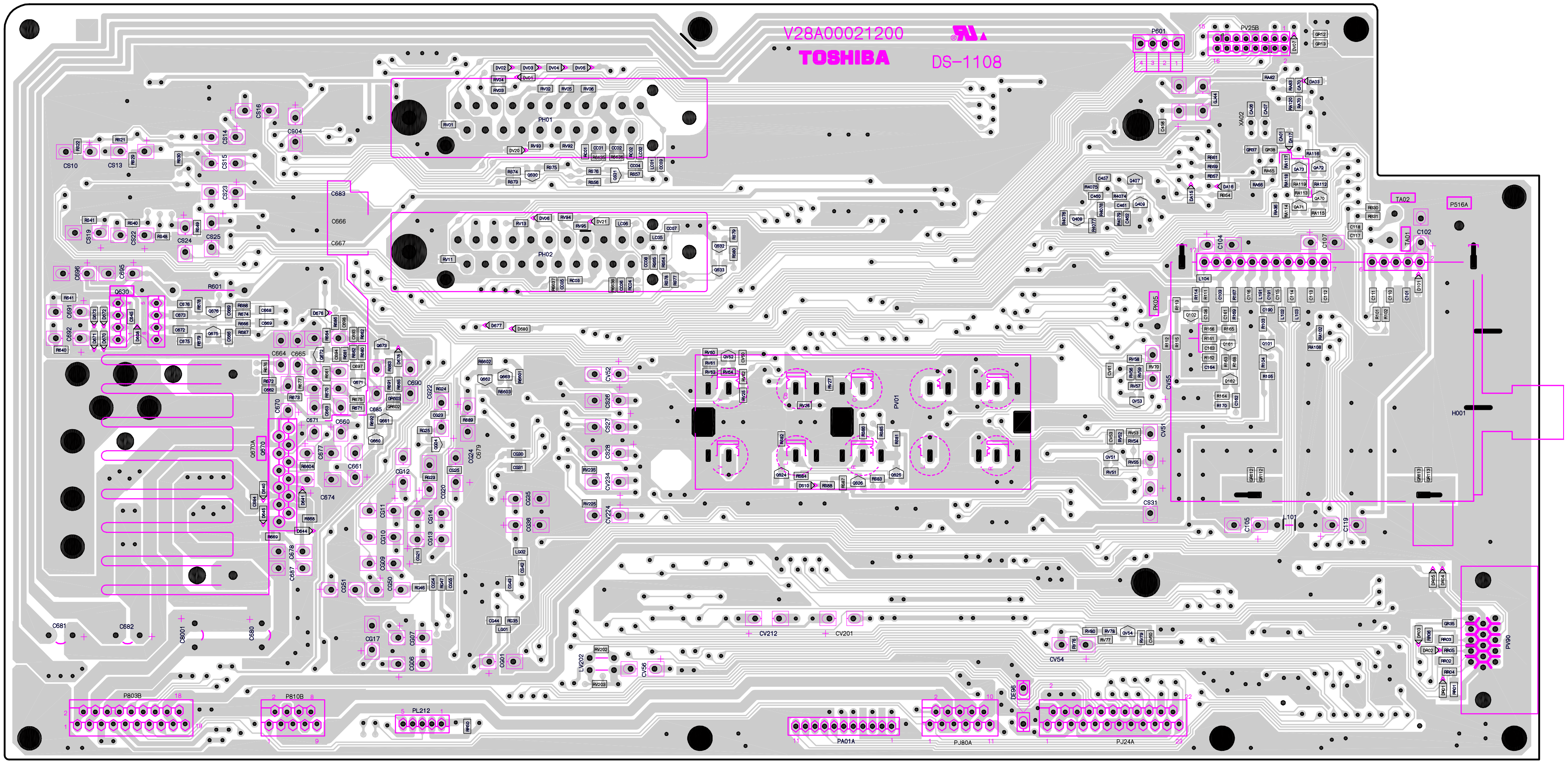
Stereo	Nicam 2 carrier system
Display	16:9
Sound output (at 10% distortion)	Main 10W + 10W
Headphone socket	3.5mm stereo
Accessories	Remote control 2 batteries (AAA, IEC R03 1.5V)

U01A POWER [Bottom] (PE0117)

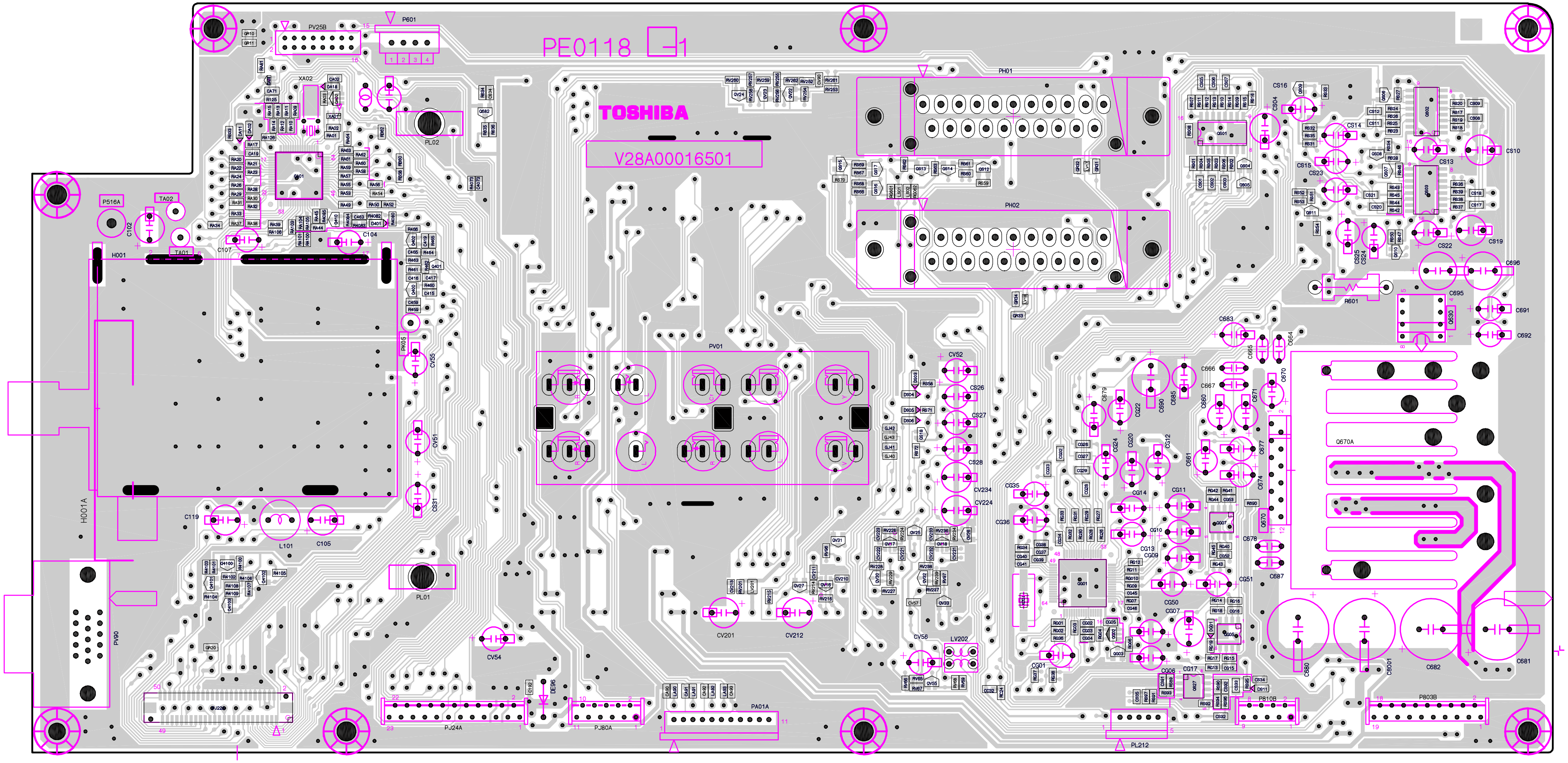


U01B LOW_B [Bottom] (PE0117)

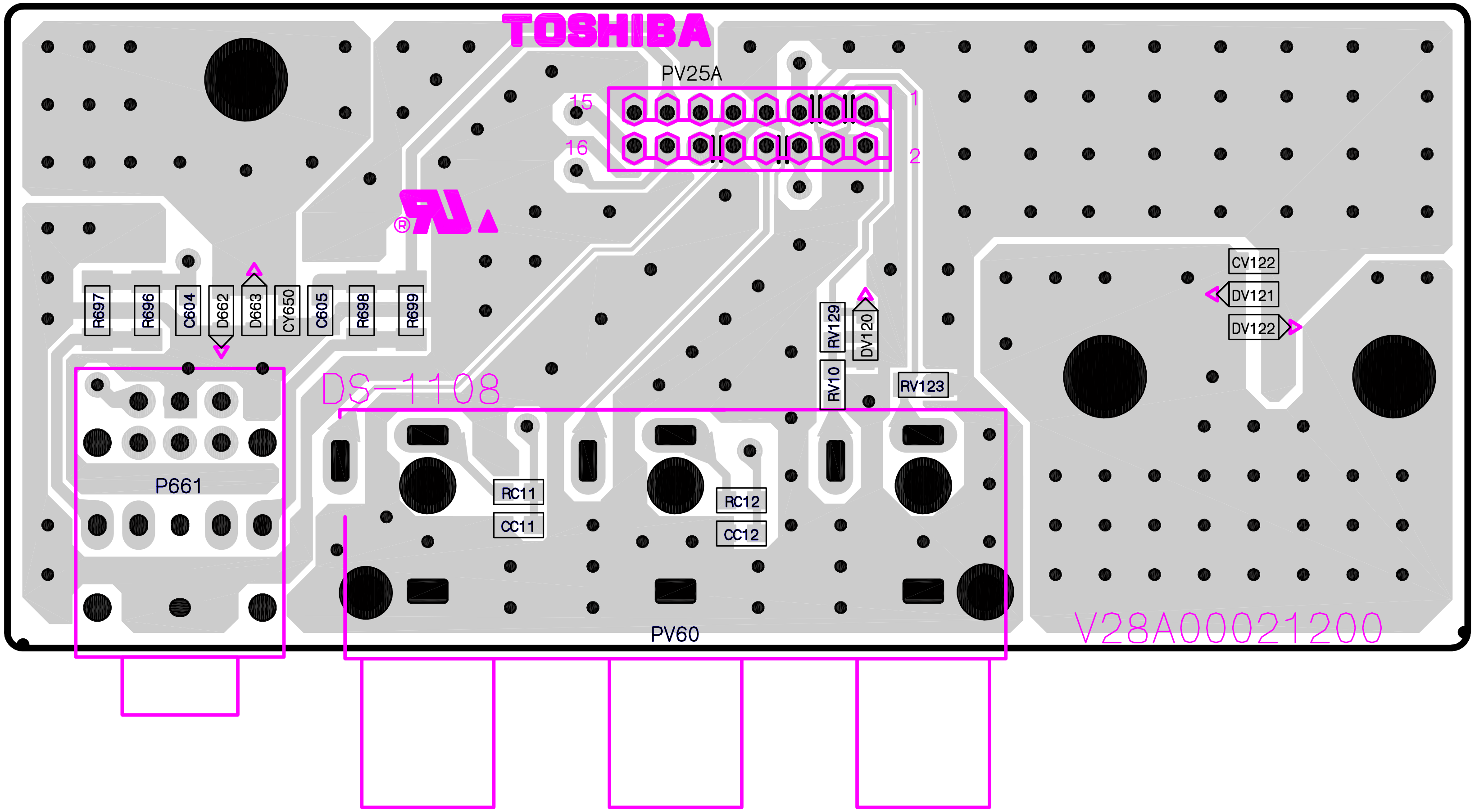
U02A AV_TERMINAL [Bottom] (PE0118)



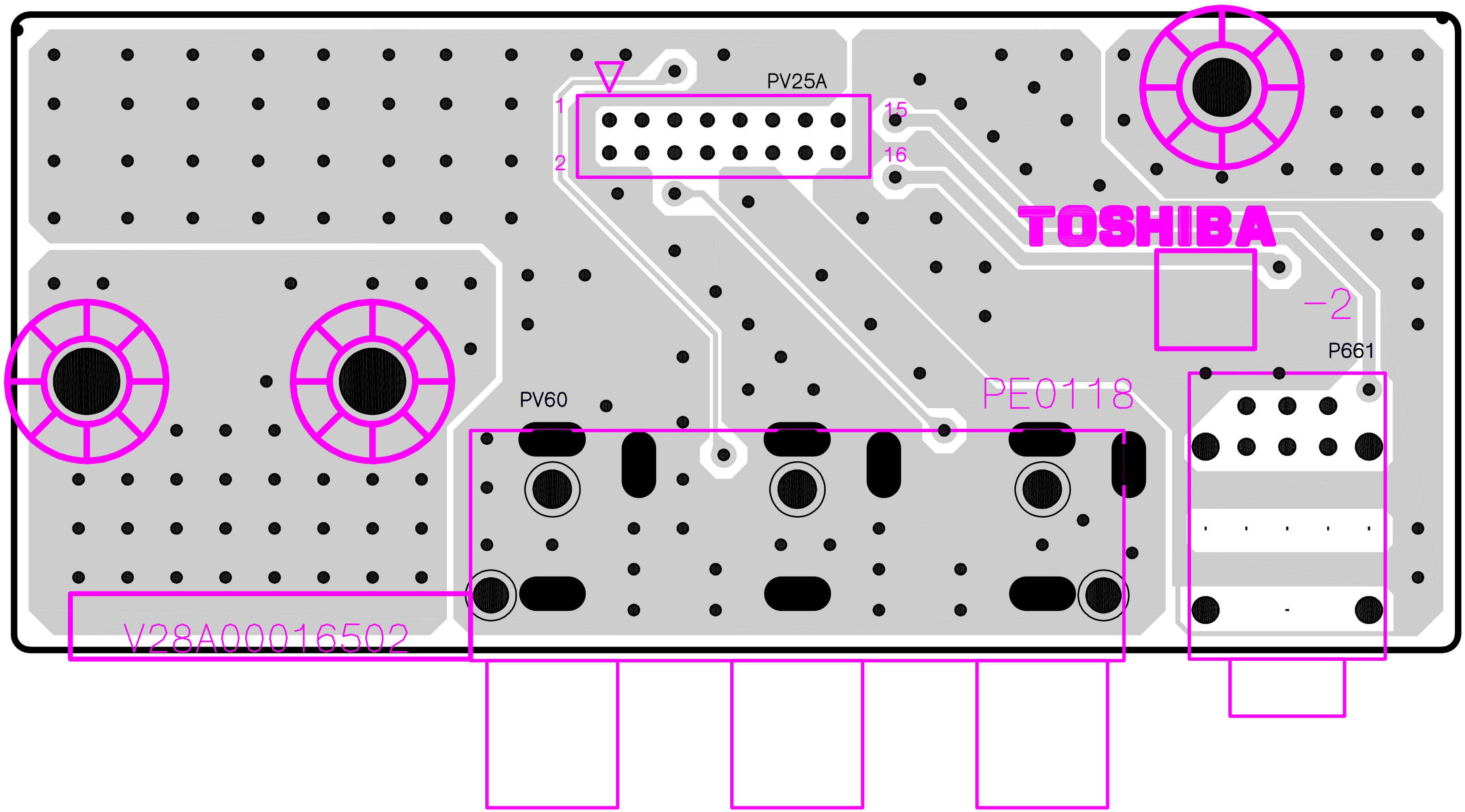
U02A AV_TERMINAL [Top] (PE0118)



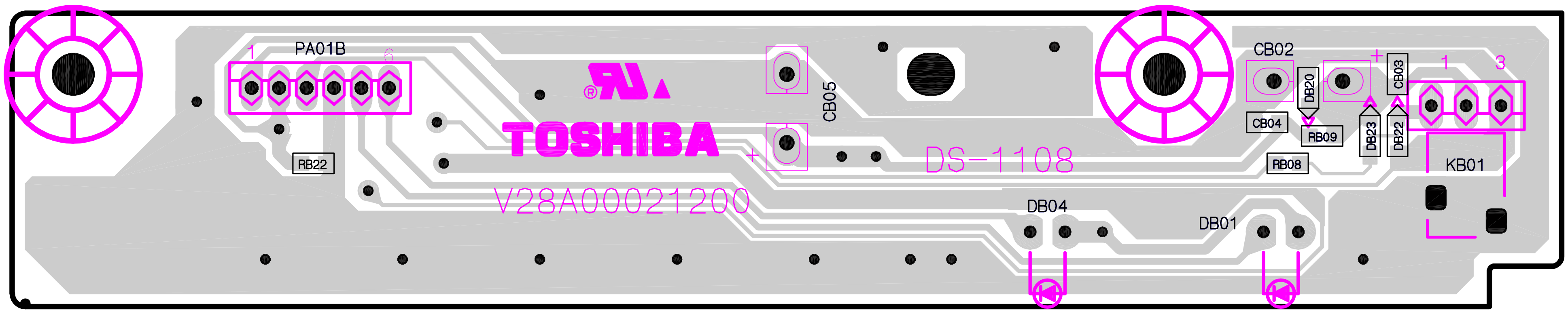
U02B FRONT_AV [Bottom] (PE0118)



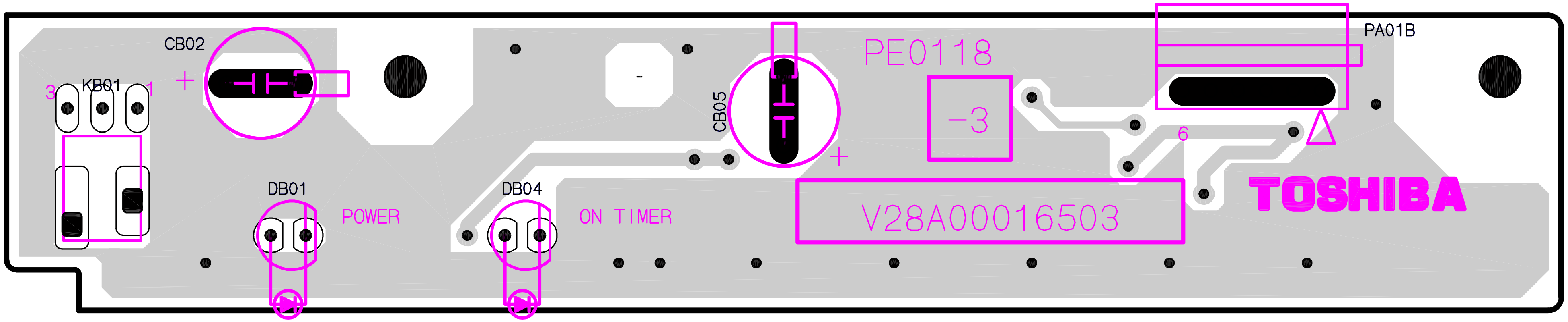
U02B FRONT_AV [Top] (PE0118)



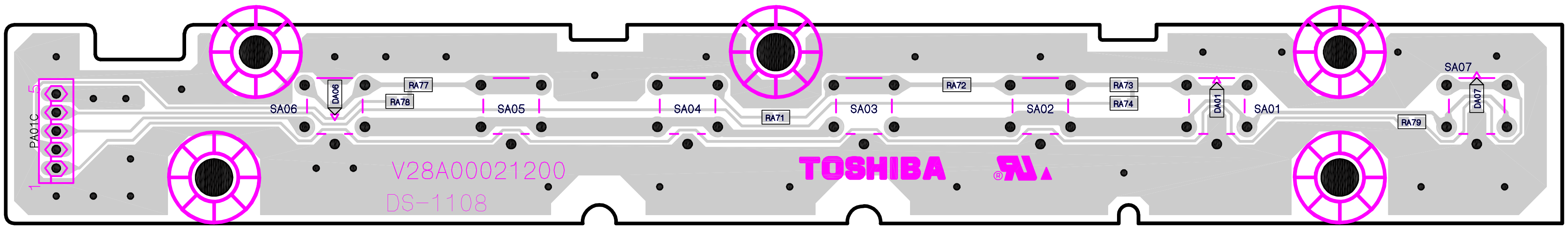
U02C LED [Bottom] (PE0118)



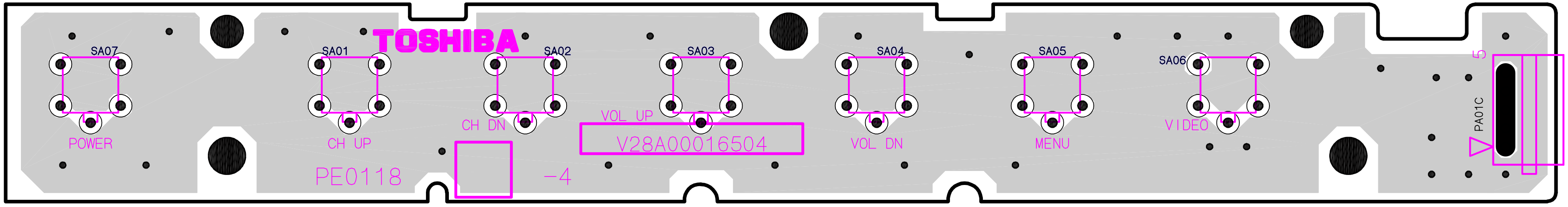
U02C LED [Top] (PE0118)



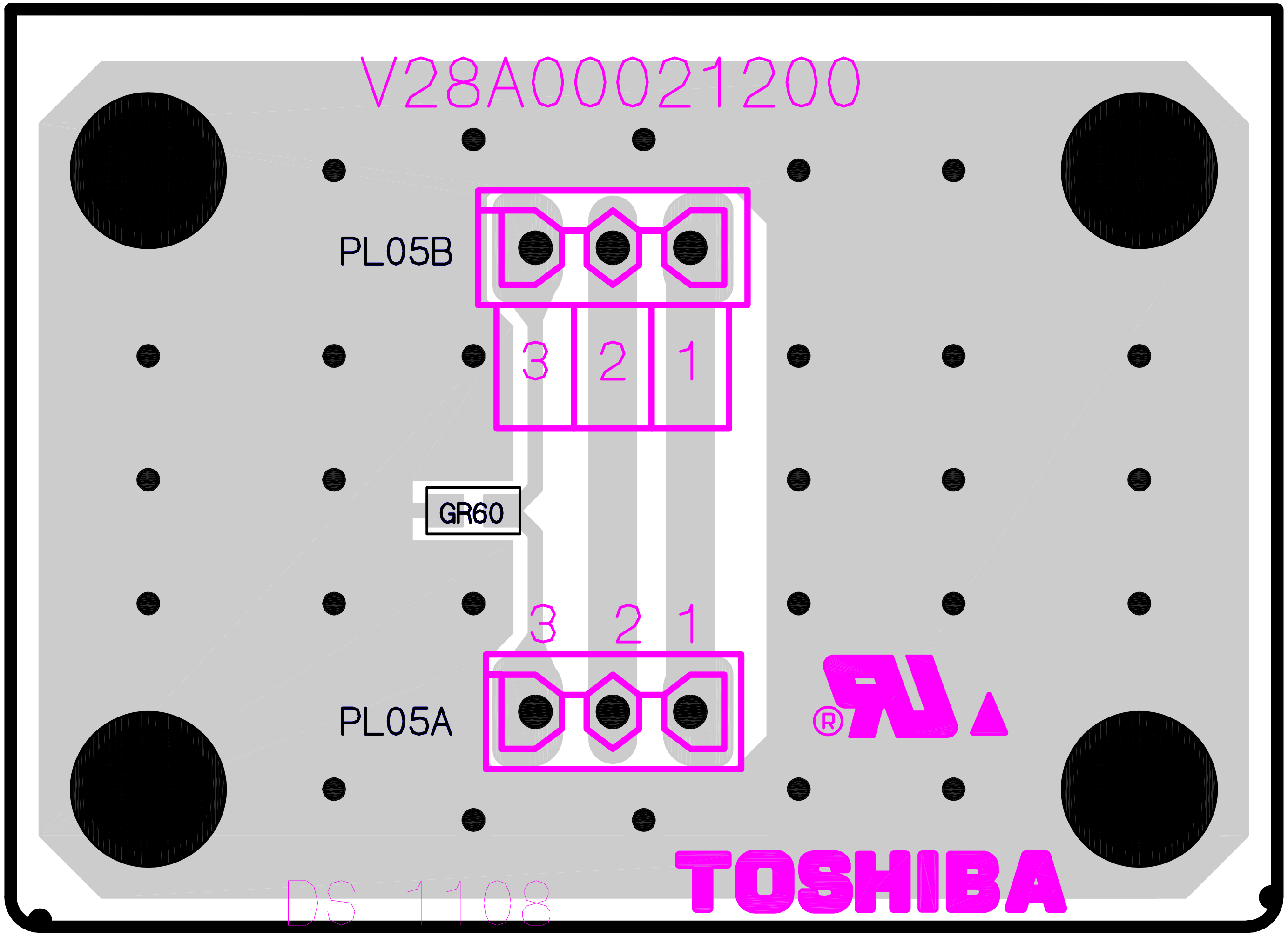
U02D KEY [Bottom] (PE0118)



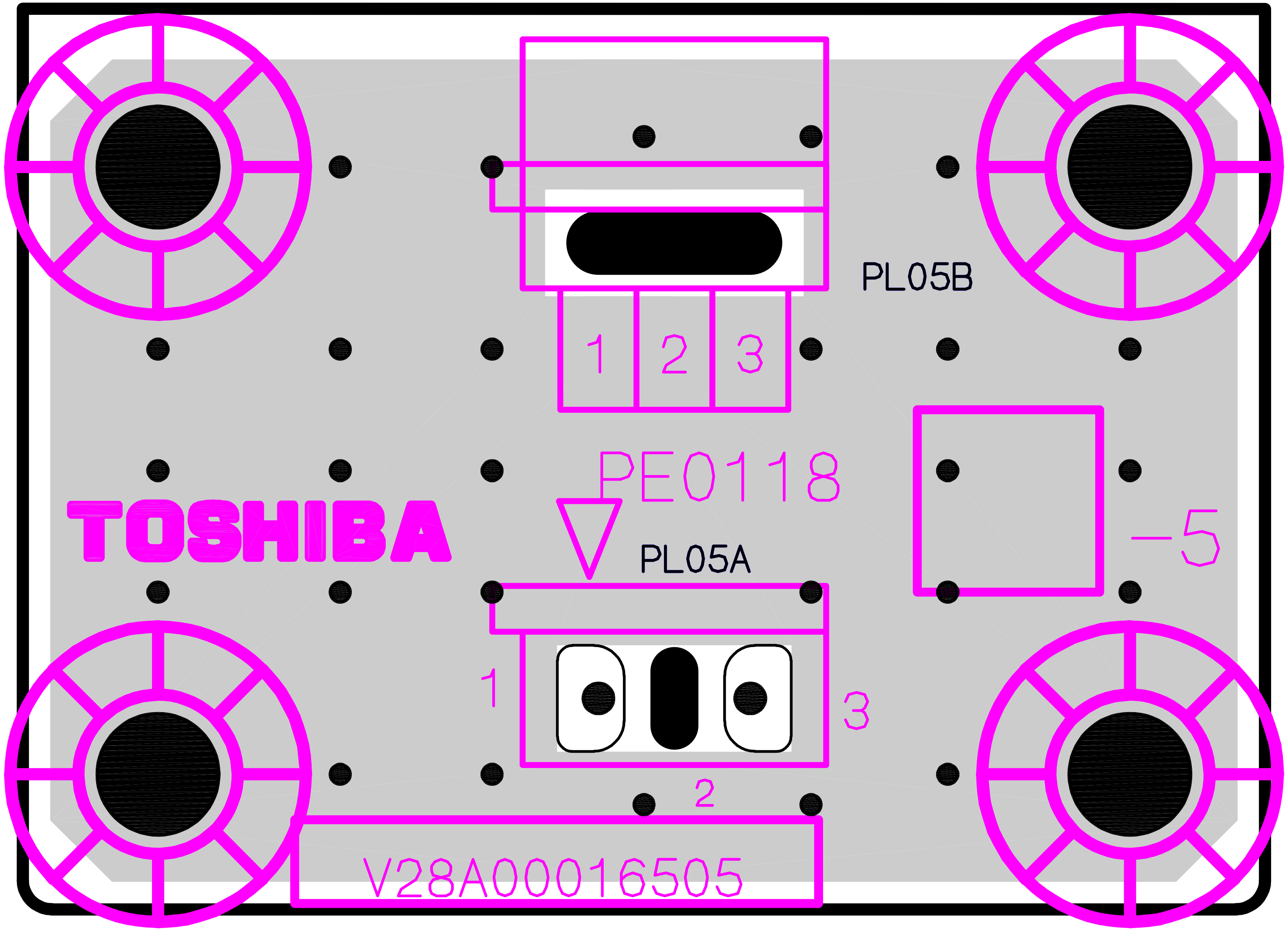
U02D KEY [Top] (PE0118)



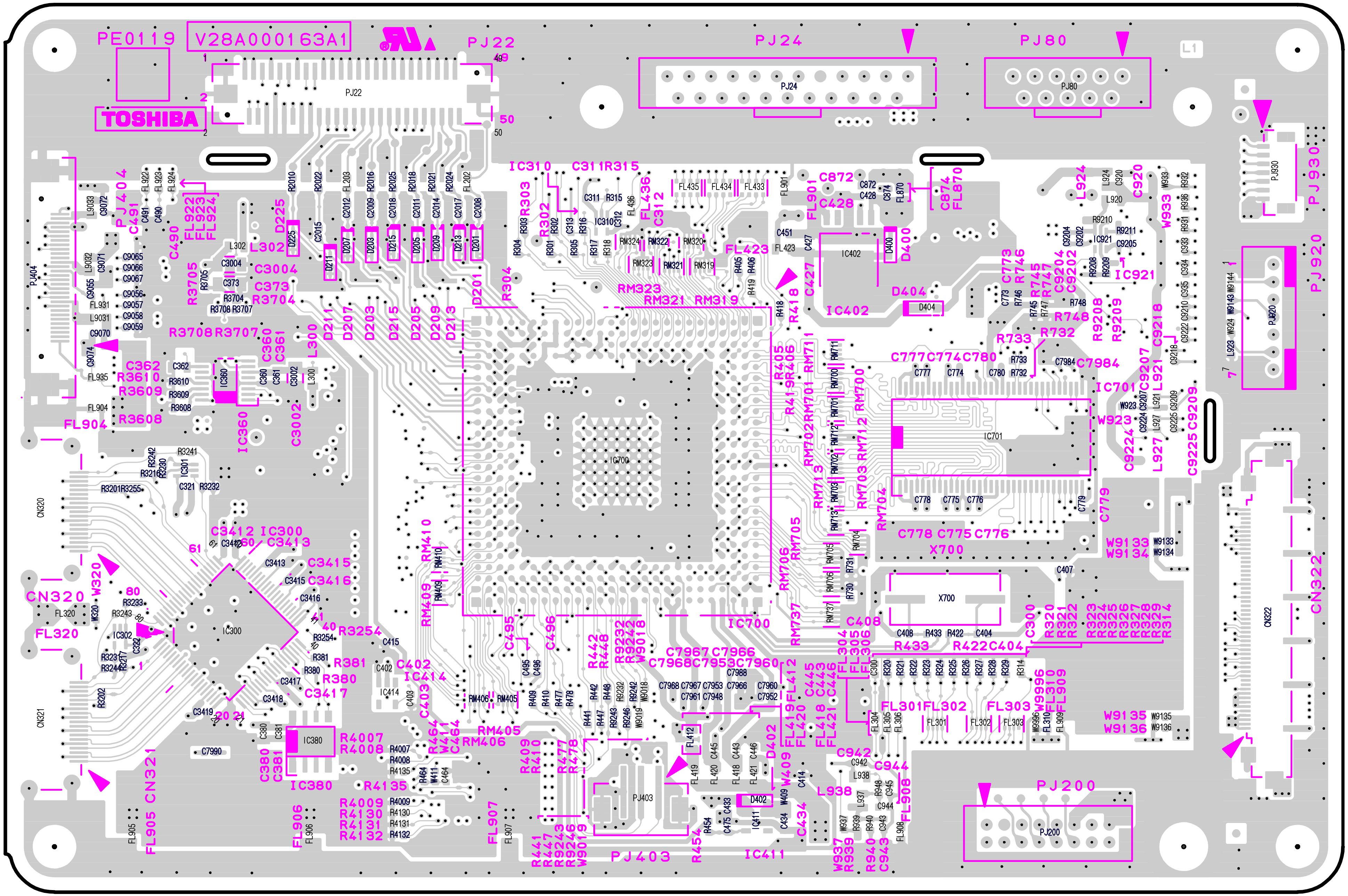
U02E DB_DOWNLOAD [Bottom] (PE0118)



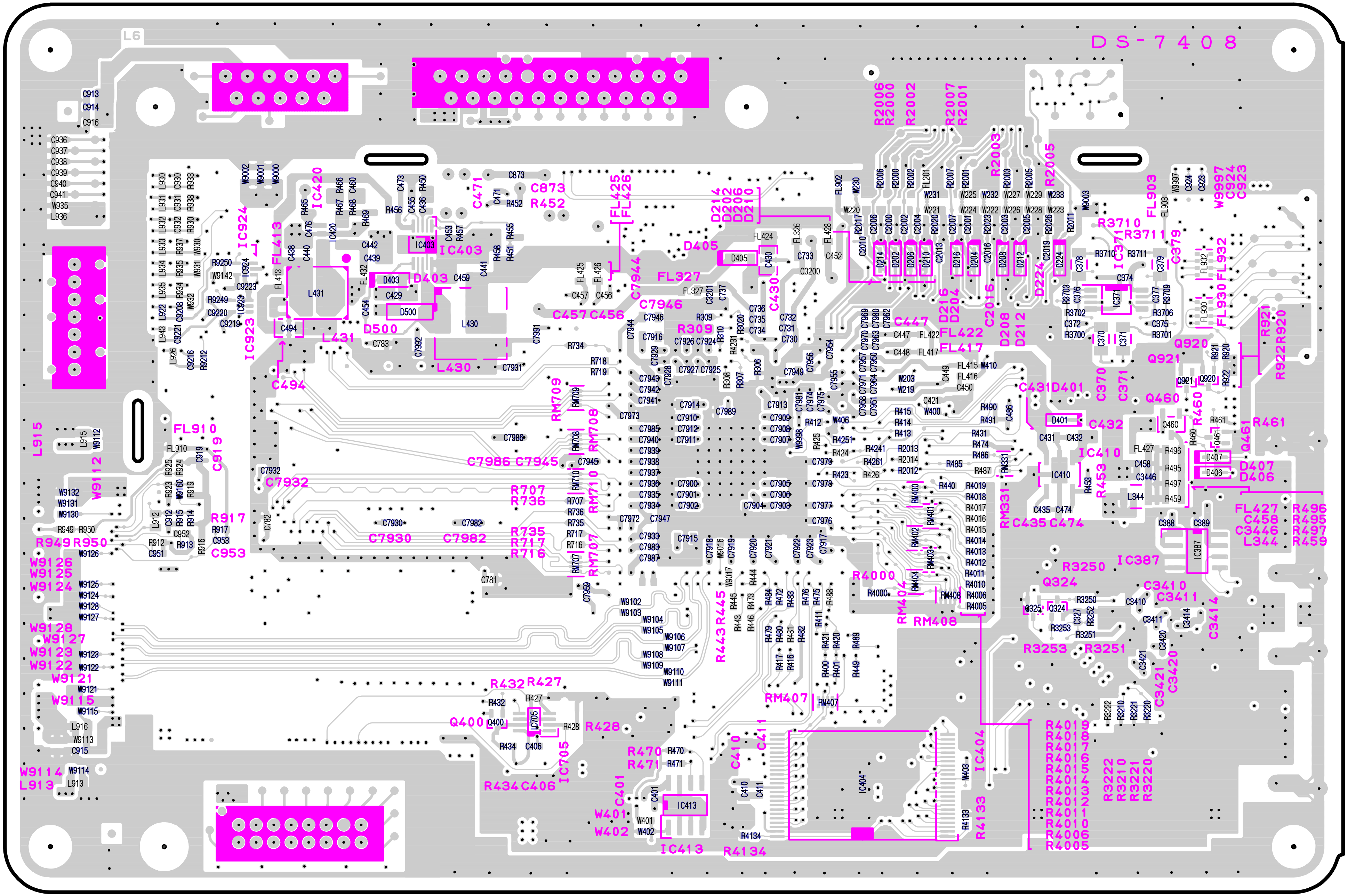
U02E DB_DOWNLOAD [Top] (PE0118)

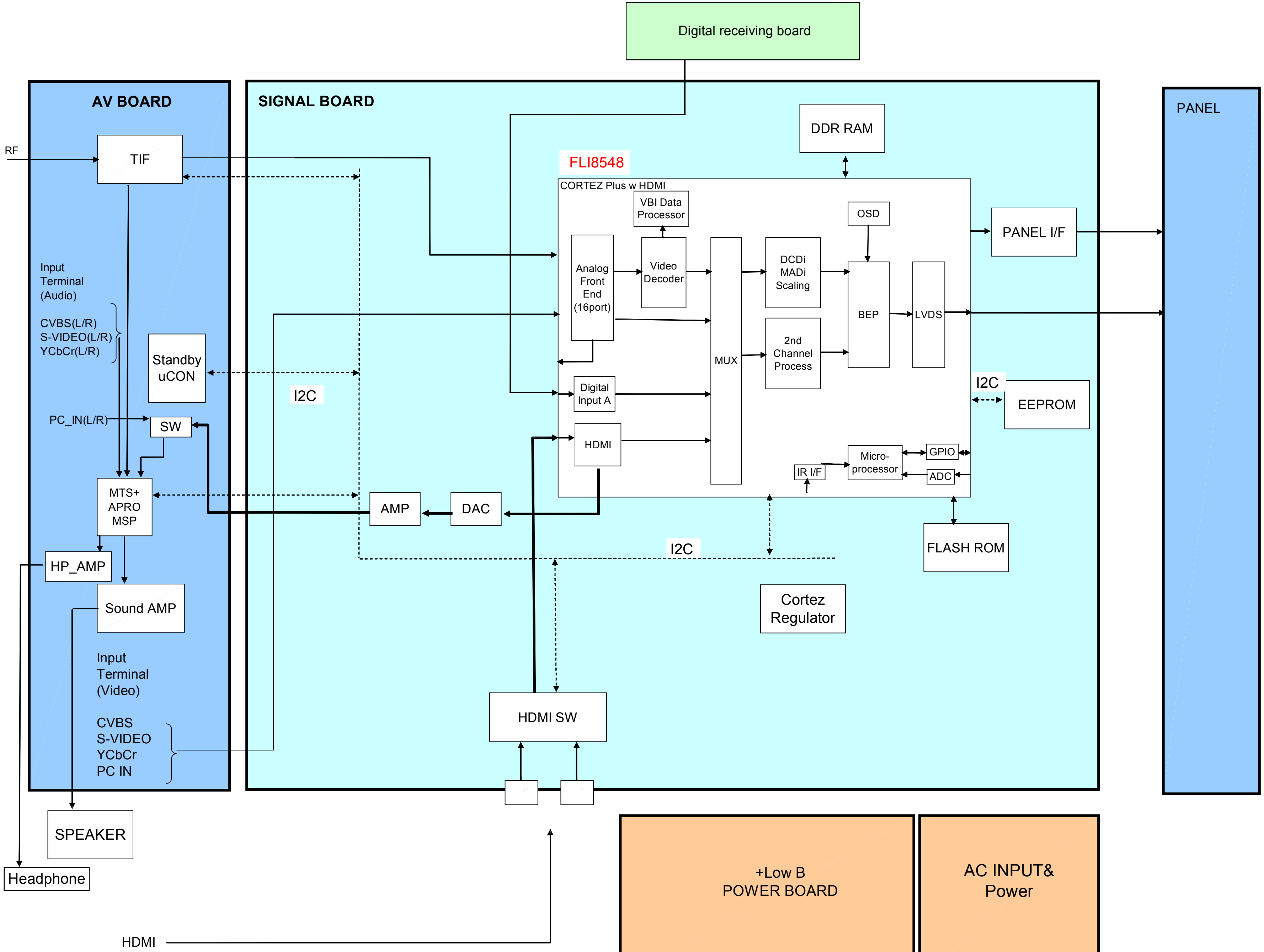


U03AS SIGNAL [Bottom] (PE0119)



U03AS SIGNAL [Top] (PE0119)





Digital receiving board
AV BOARD
SIGNAL BOARD
PANEL
RF
TIF
DDR RAM
FLI8548
CORTEZ Plus w HDMI
VBI Data Processor
OSD
PANEL I/F
Analog Front End (16port)
Video Decoder
MUX
DCDi MADi Scaling
BEP
LVDS
2nd Channel Process
Input Terminal (Audio)
CVBS(L/R)
S-VIDEO(L/R)
YCbCr(L/R)
Standby uCON
I2C
Digital Input A
HDMI
EEPROM
PC_IN(L/R)
SW
GPIO
Micro-processor
IR I/F
ADC
MTS+ APRO MSP
AMP
DAC
FLASH ROM
HP_AMP
I2C
Cortez Regulator
Sound AMP
Input Terminal (Video)
CVBS
S-VIDEO
YCbCr
PC IN
HDMI SW
SPEAKER
Headphone
+Low B POWER BOARD
AC INPUT& Power
HDMI

SCHEMATIC DIAGRAM

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and
should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

1. RESISTOR
   Resistance is shown in ohm [K=1,000, M=1,000,000]. All resistors are 1/6 W and 5 % tolerance carbon resistor, unless otherwise noted as the following marks.

   1/2R : Metal or Metal oxide of 1/2 watt
   1/2S : Carbon composition of 1/2 watt
   1RF : Fuse resistor of 1 watt
   10 W : Cement of 10 watt
   K : ±10 %
   G : ±2 %
   F : ±1 %

2. CAPACITOR
   Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.

All capacitors are ceramic 50 V, unless otherwise noted as the following marks.

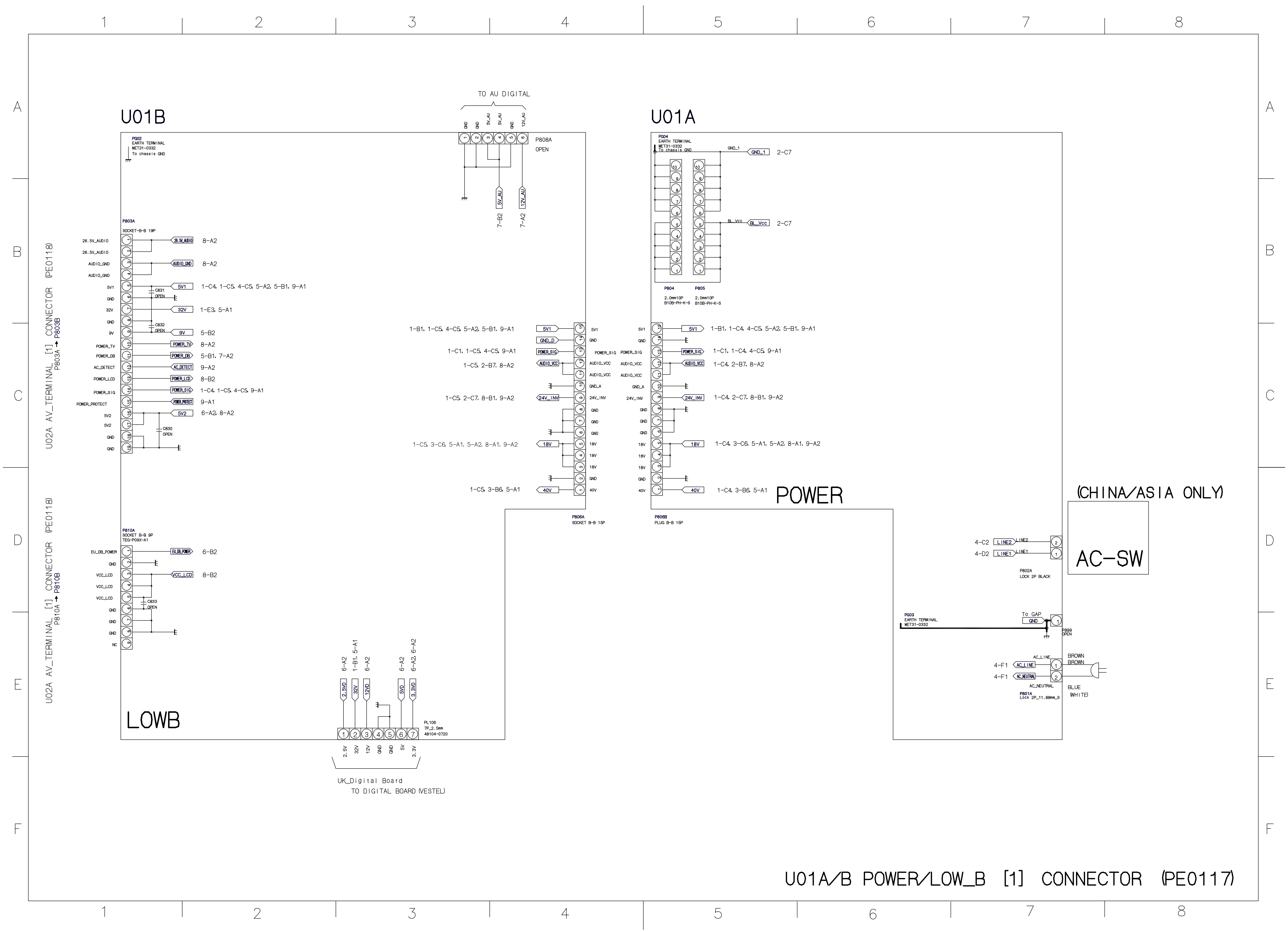
+ ┤├ = Electrolytic capacitor
Ⓜ ┤├ = Mylar capacitor

3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.

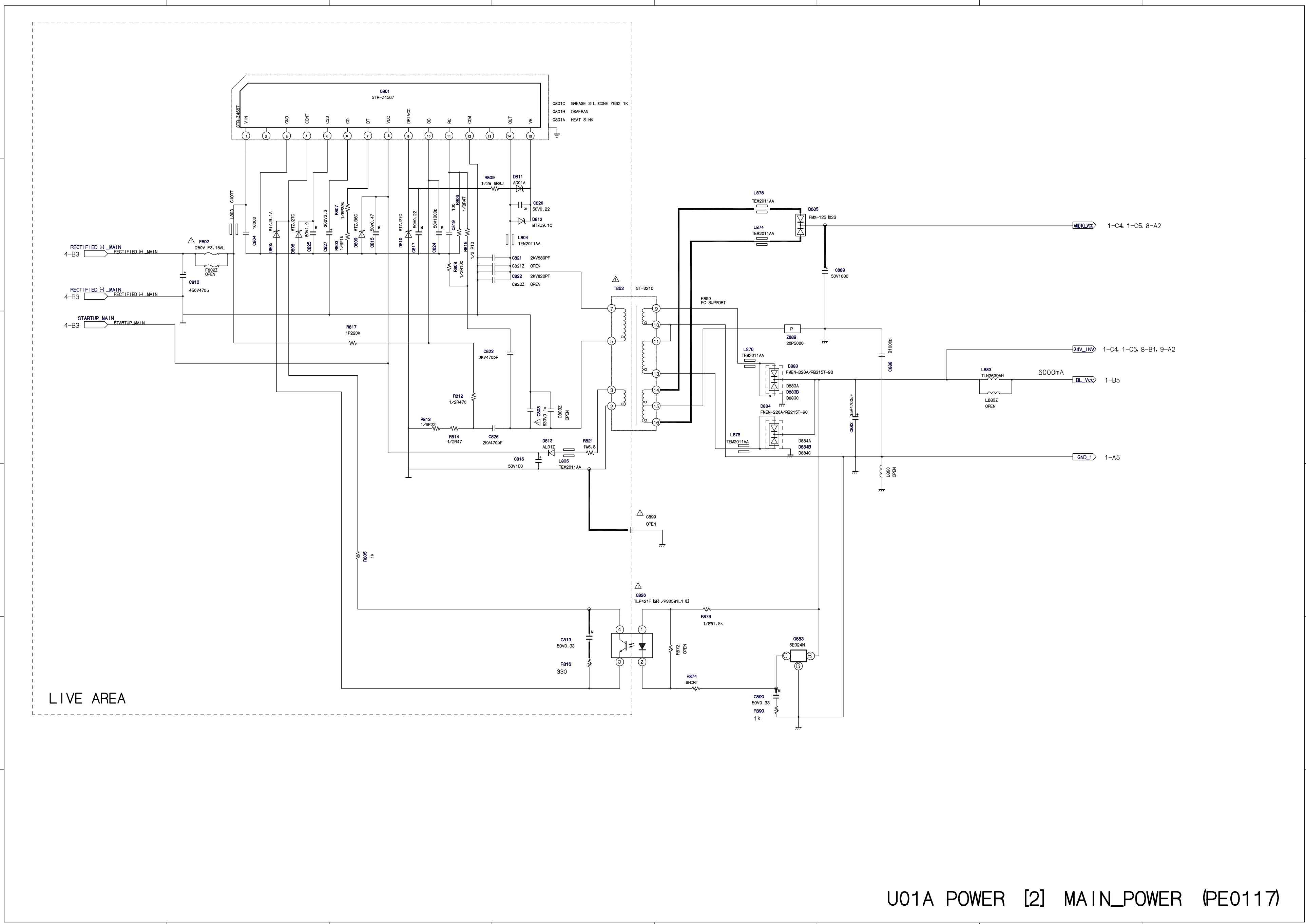
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage at nominal AC volts.

5. Waveforms are taken receiving color bar signal with enough sensitivity.

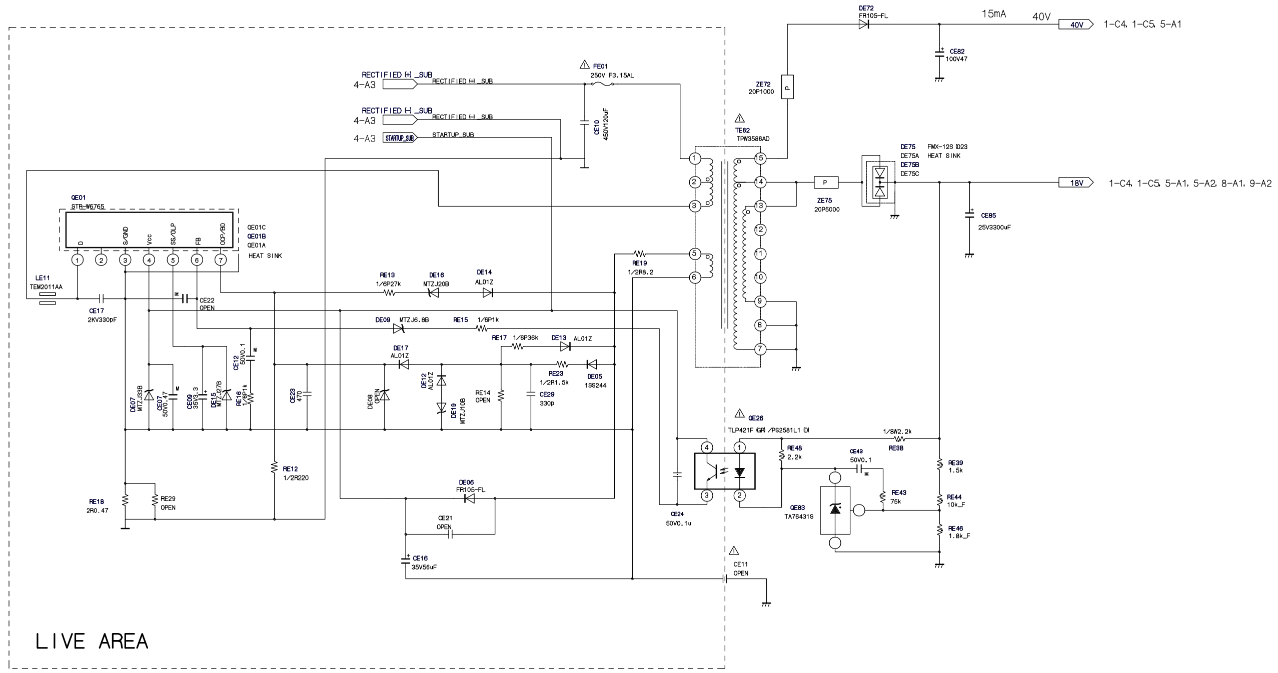
6. Voltage reading shown are nominal values and may vary ±20 % except H.V.



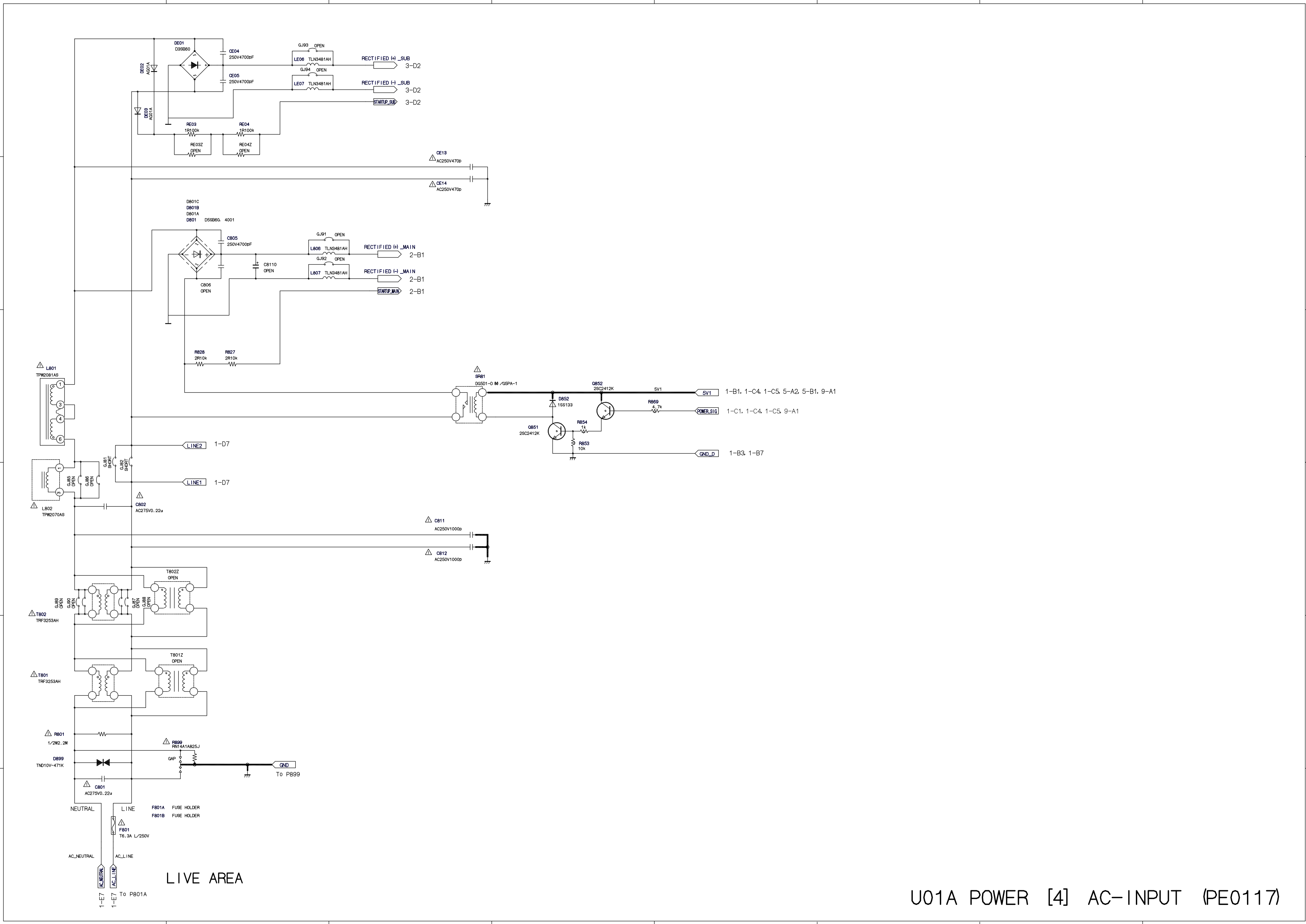
U01B
U01A
TO AU DIGITAL
P808A
OPEN
P803A
SOCKET-B-B 19P
26.5V_AUDIO
AUDIO_GND
5V1
32V
9V
POWER_TV
POWER_DB
AC_DETECT
POWER_LCD
POWER_SIG
POWER_PROTECT
5V2
GND
U02A AV_TERMINAL [1] CONNECTOR (PE0118)
P803A → P803B
P810A
SOCKET B-B 9P
EU_DB_POWER
VCC_LCD
U02A AV_TERMINAL [1] CONNECTOR (PE0118)
P810A → P810B
LOWB
PL106
UK_Digital Board
TO DIGITAL BOARD (VESTEL)
P806A
SOCKET B-B 15P
P806B
PLUG B-B 15P
P804
P805
POWER
(CHINA/ASIA ONLY)
AC-SW
P802A
LOCK 2P BLACK
P801A
BROWN
BLUE
(WHITE)
U01A/B POWER/LOW_B [1] CONNECTOR (PE0117)



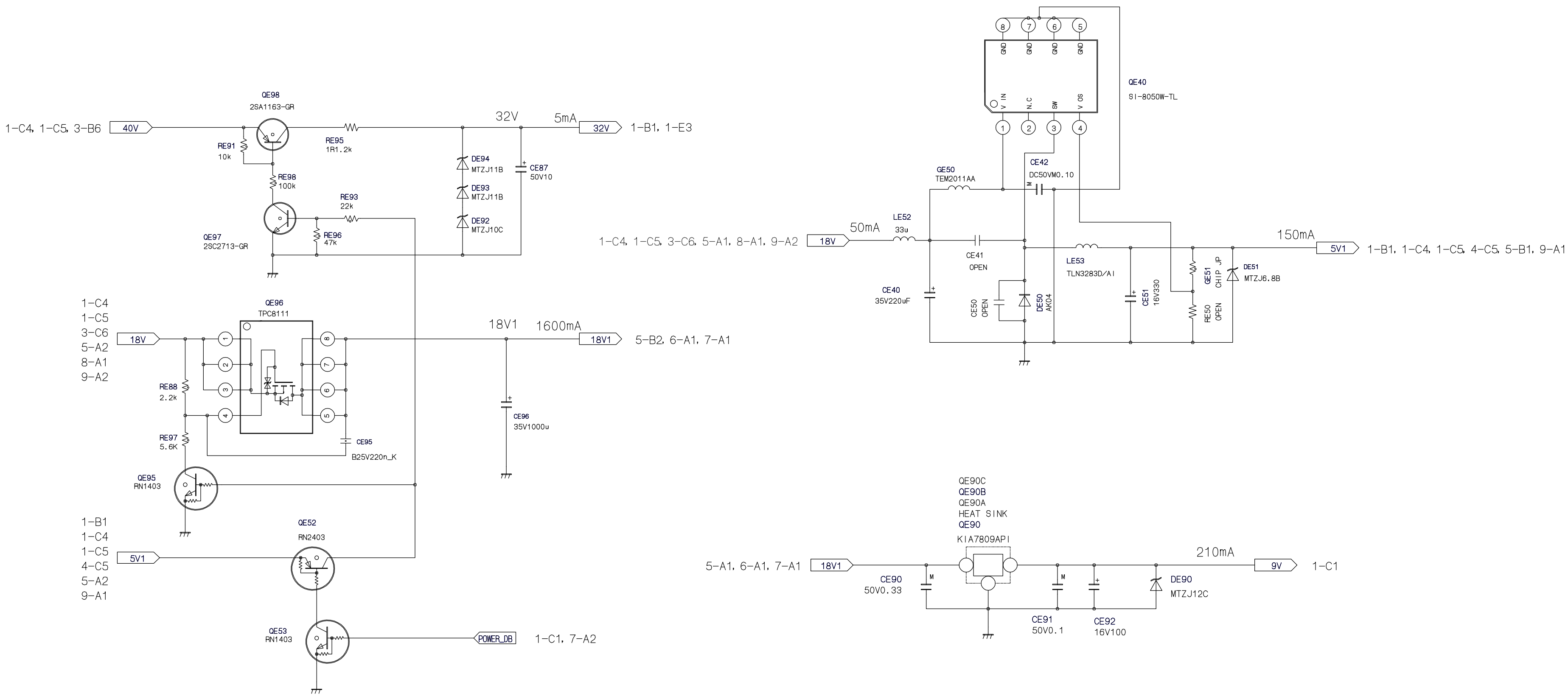
U01A POWER [2] MAIN_POWER (PE0117)



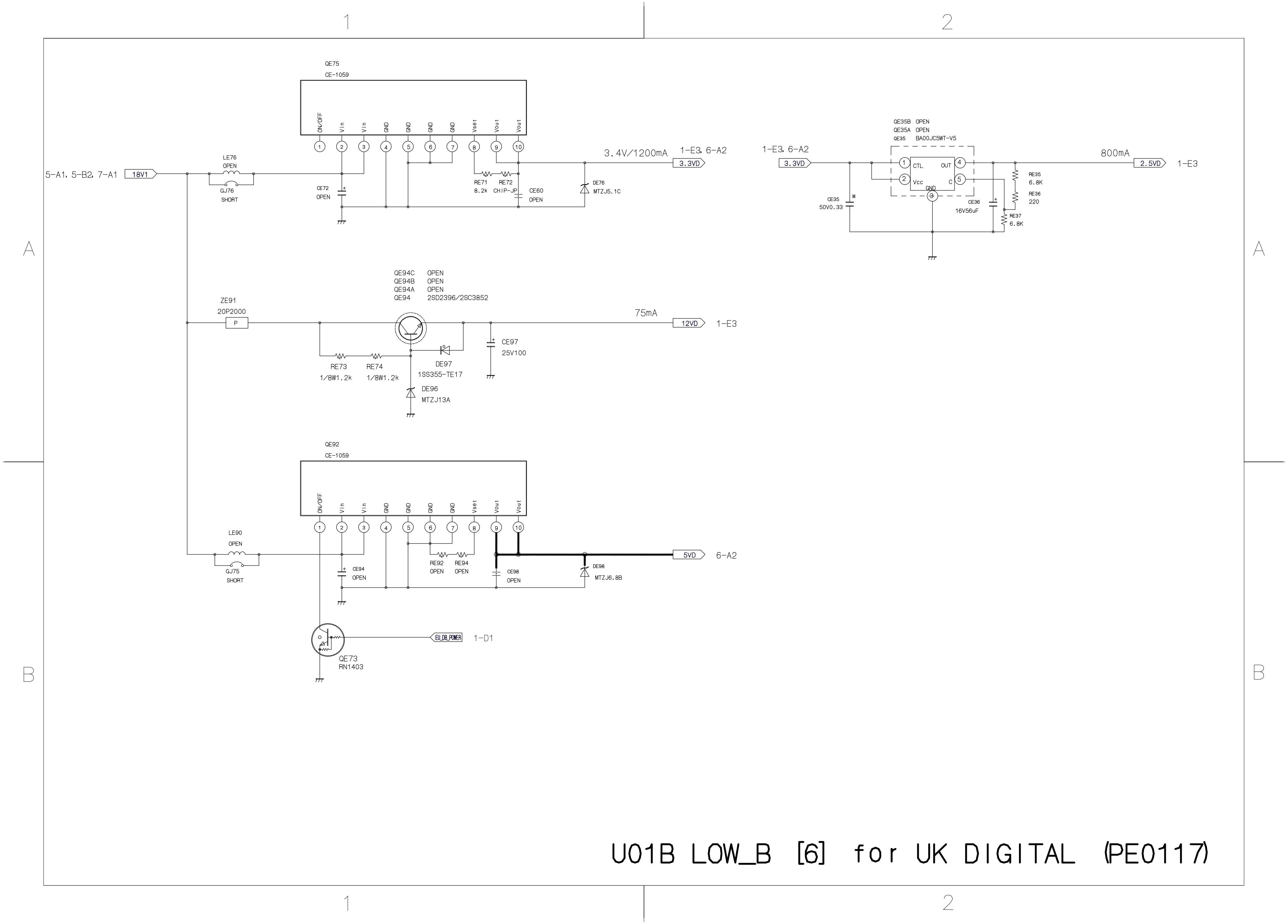
U01A POWER [3] SUB_POWER (PE0117)



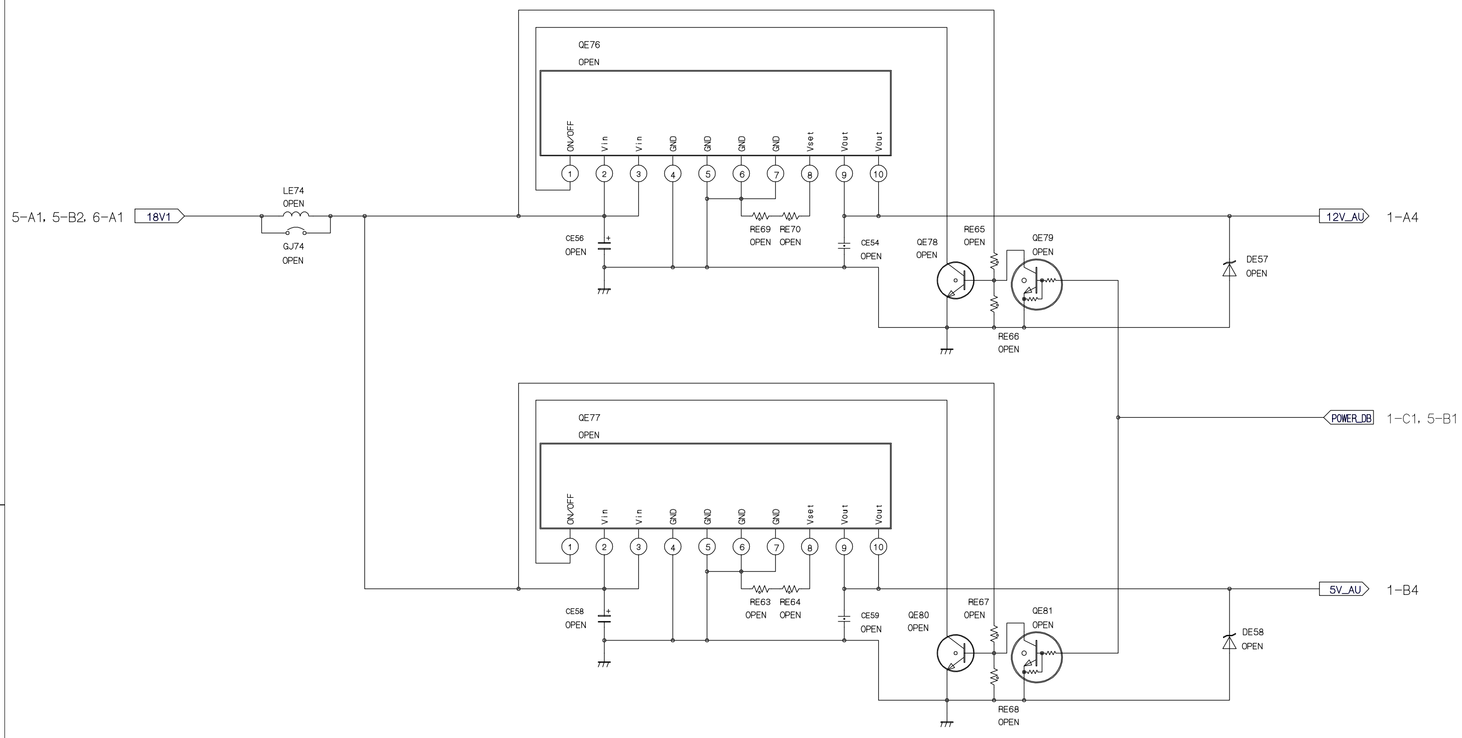
U01A POWER [4] AC-INPUT (PE0117)



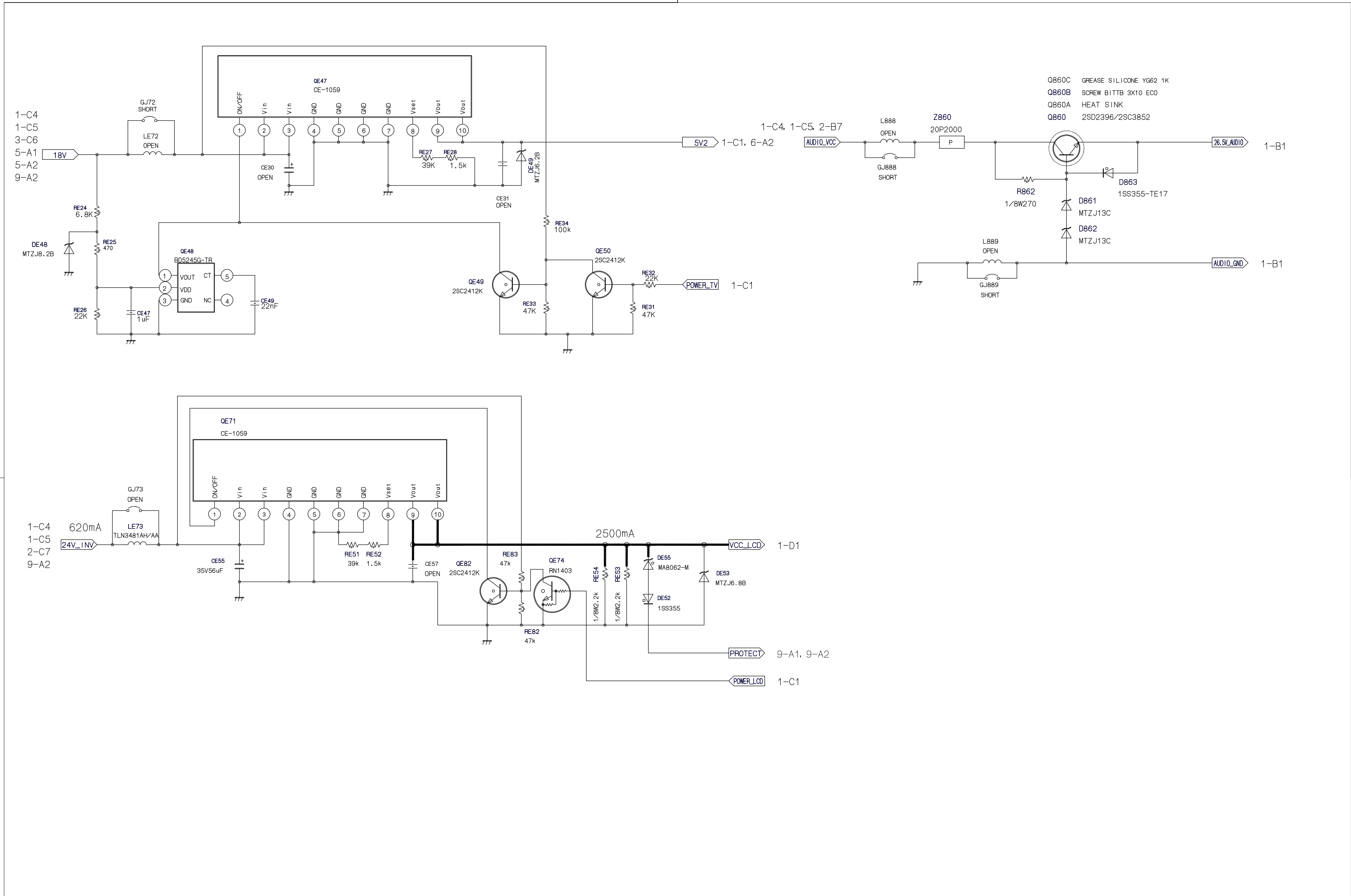
U01B LOW_B [5] REGULATOR 1 (PE0117)



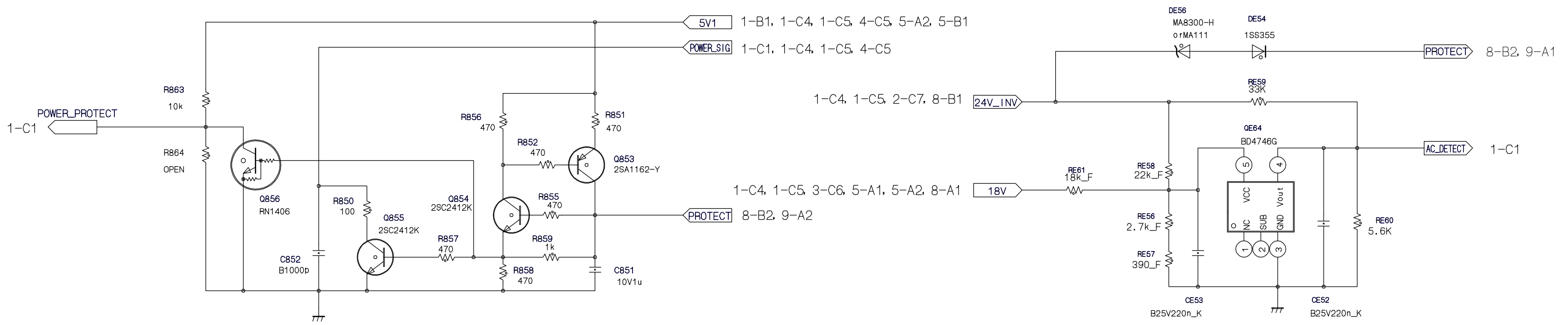
U01B LOW_B [6] for UK DIGITAL (PE0117)



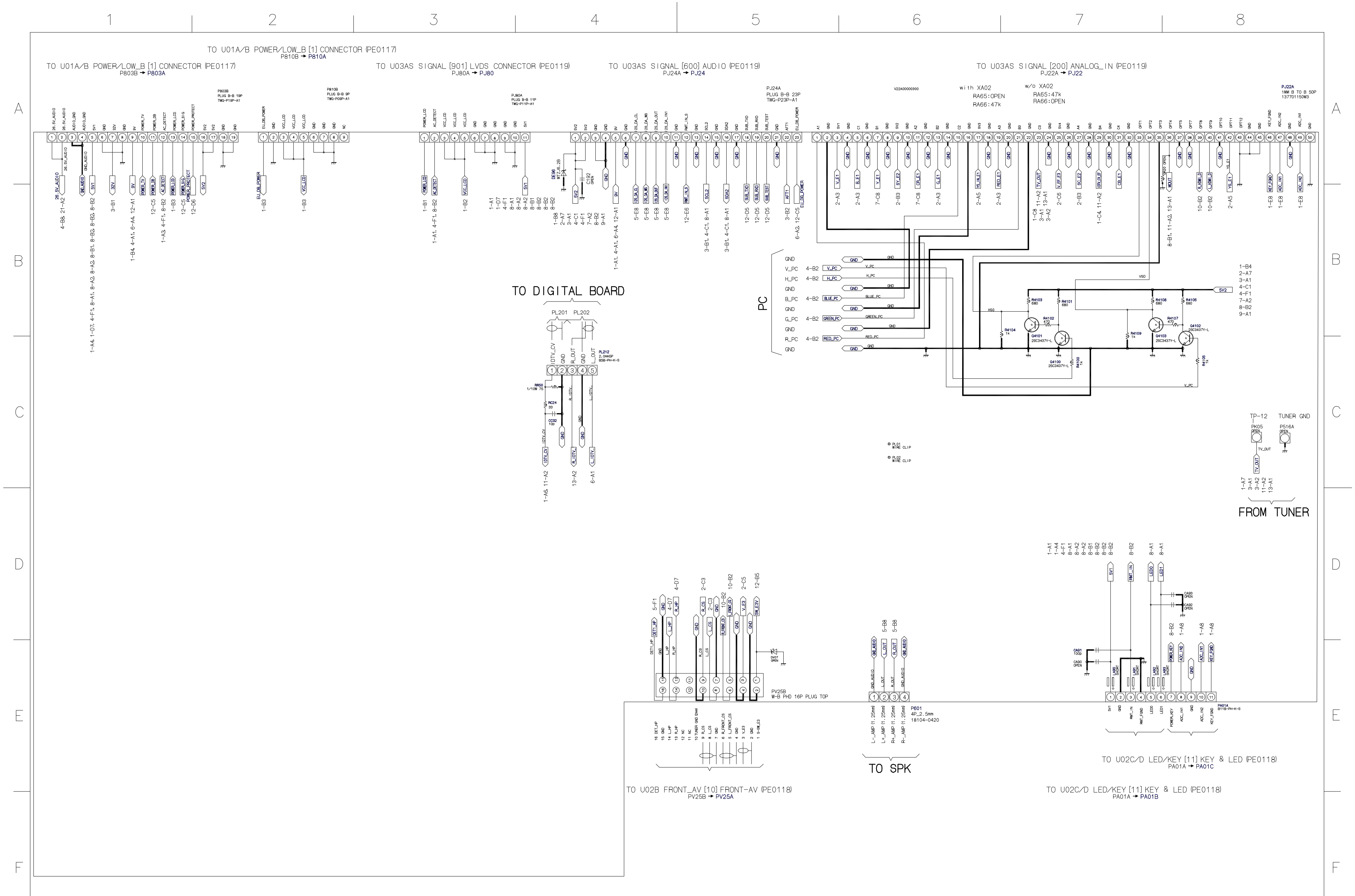
U01B LOW_B [7] for AU_DIGITAL (PE0117)



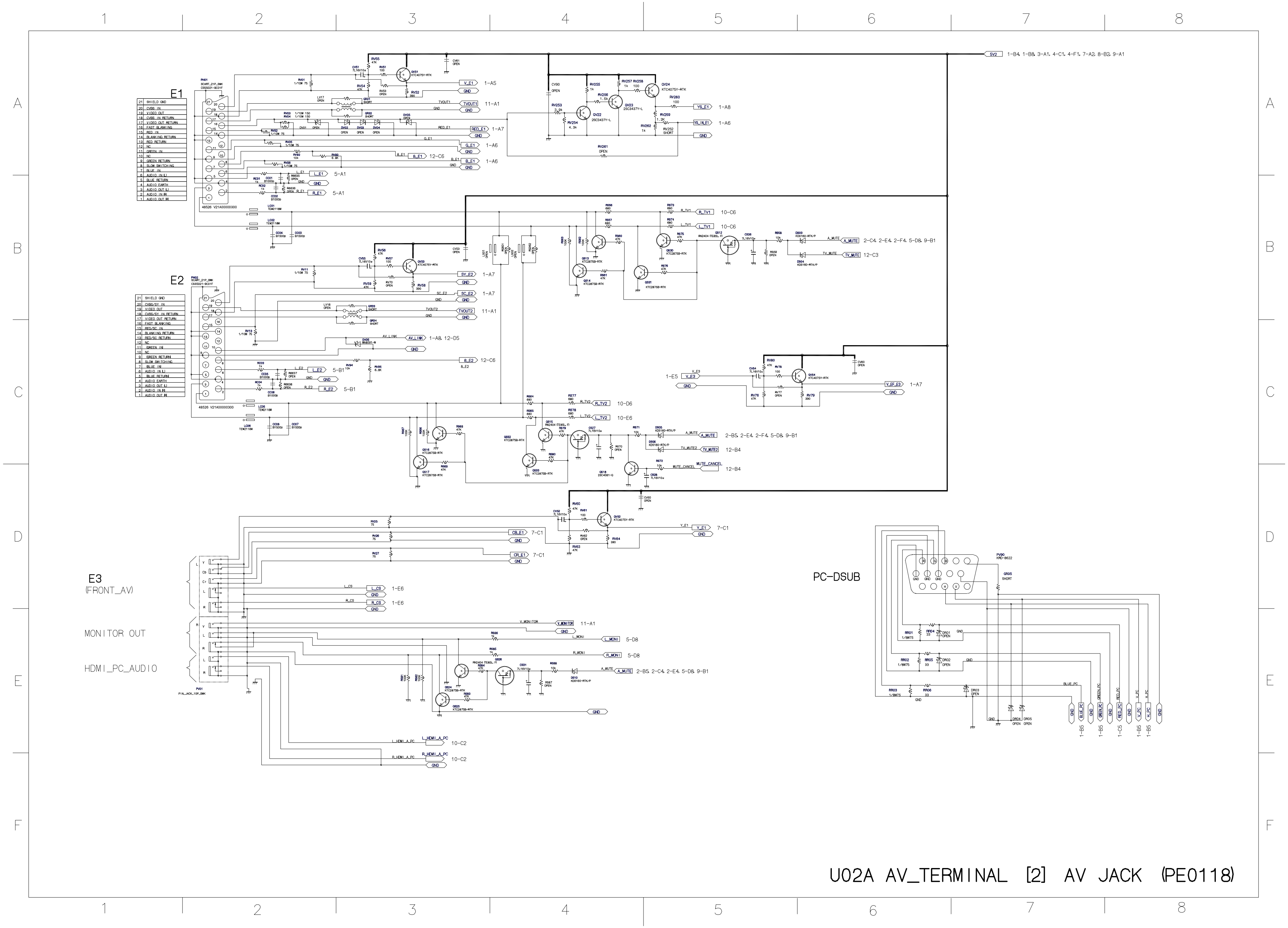
U01B LOW_B [8] REGULATOR 2 (PE0117)



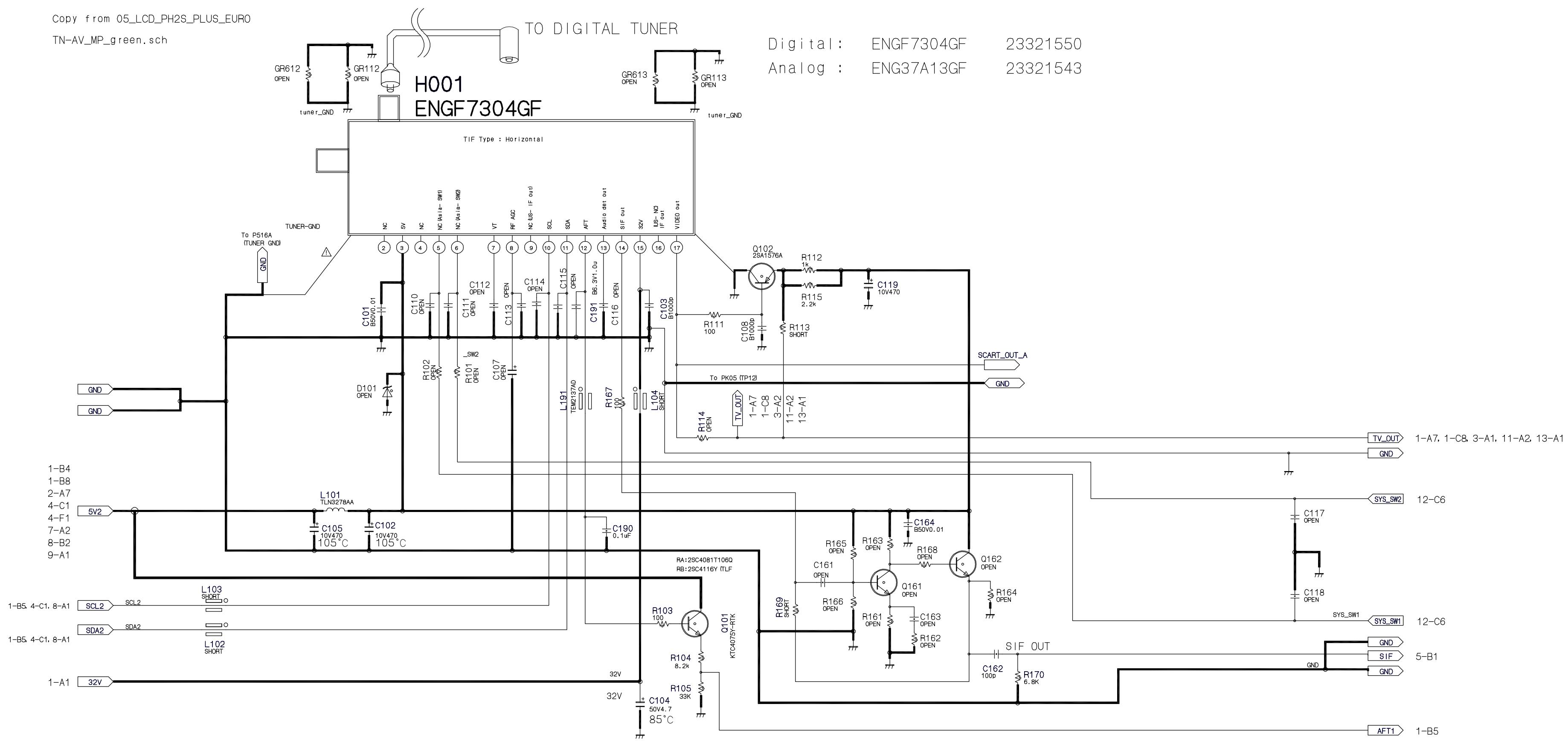
U01B LOW_B [9] OTHER (PE0117)



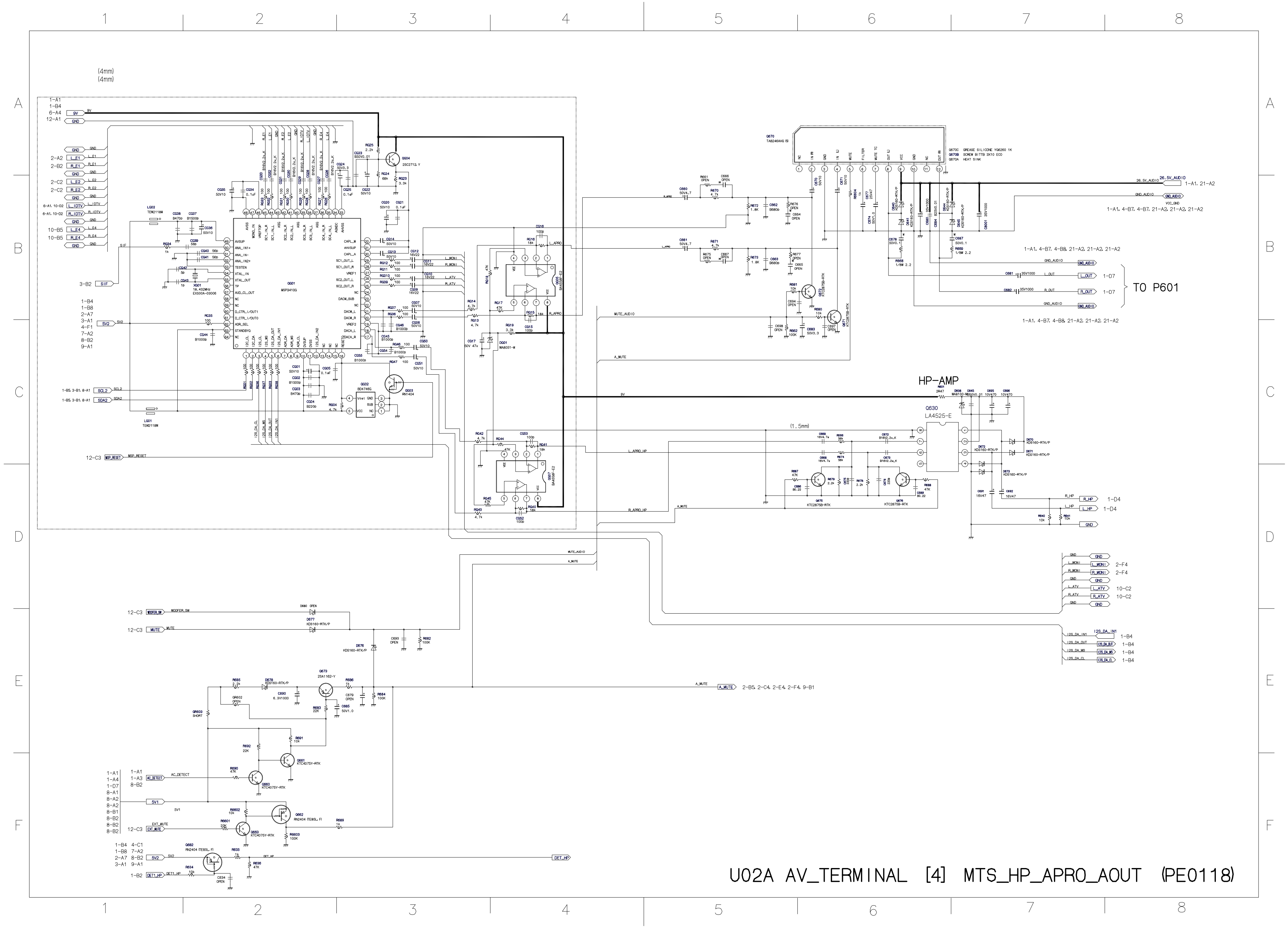
U02A AV_TERMINAL [1] CONNECTOR (PE0118)



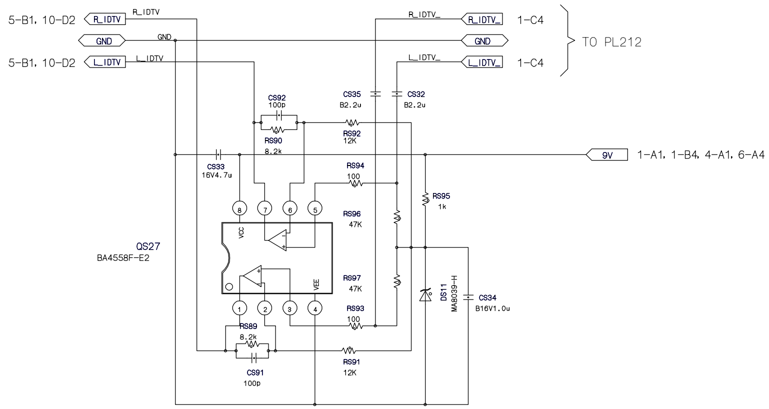
U02A AV_TERMINAL [2] AV JACK (PE0118)



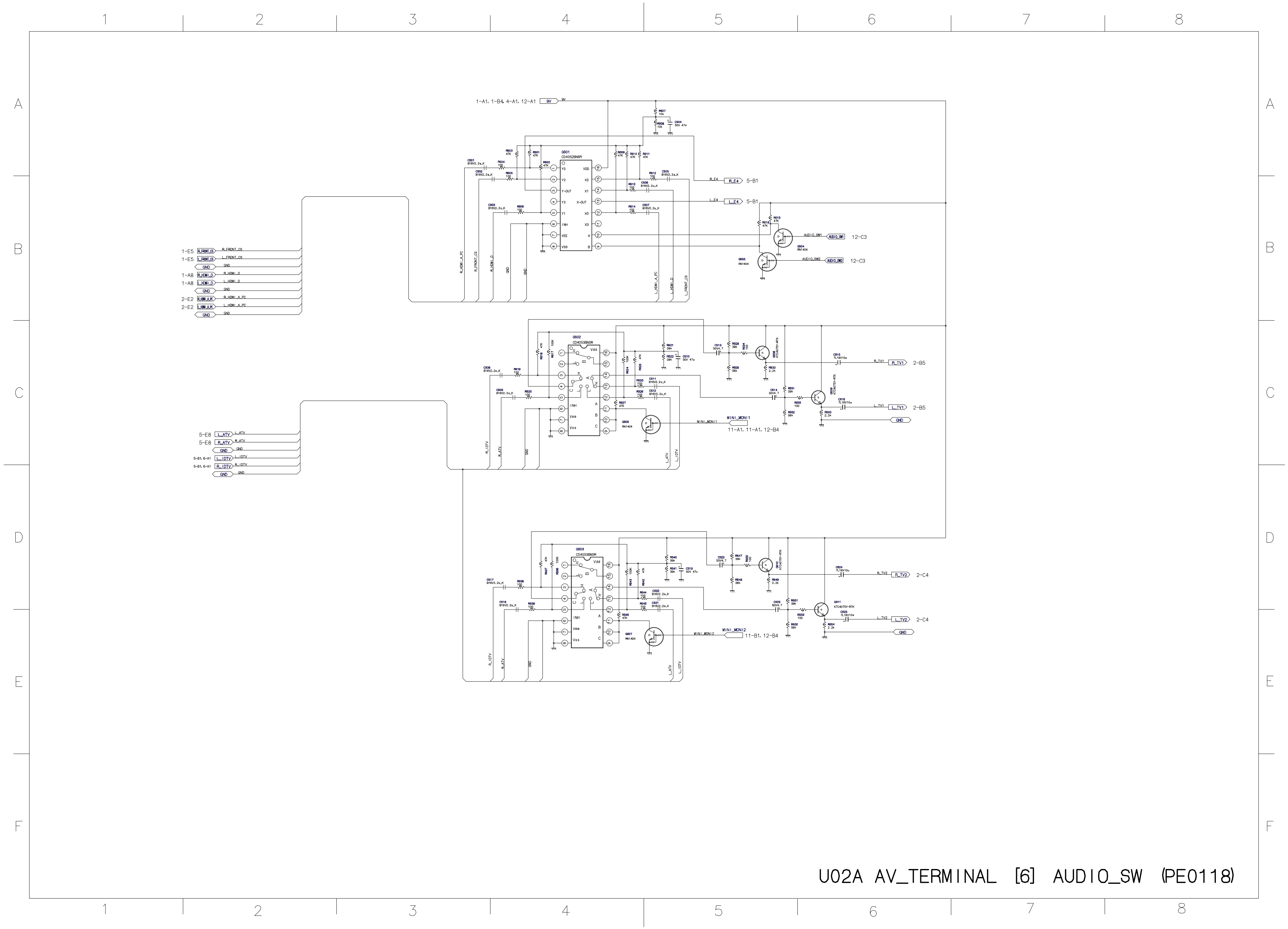
U02A AV_TERMINAL [3] TUNER (PE0118)



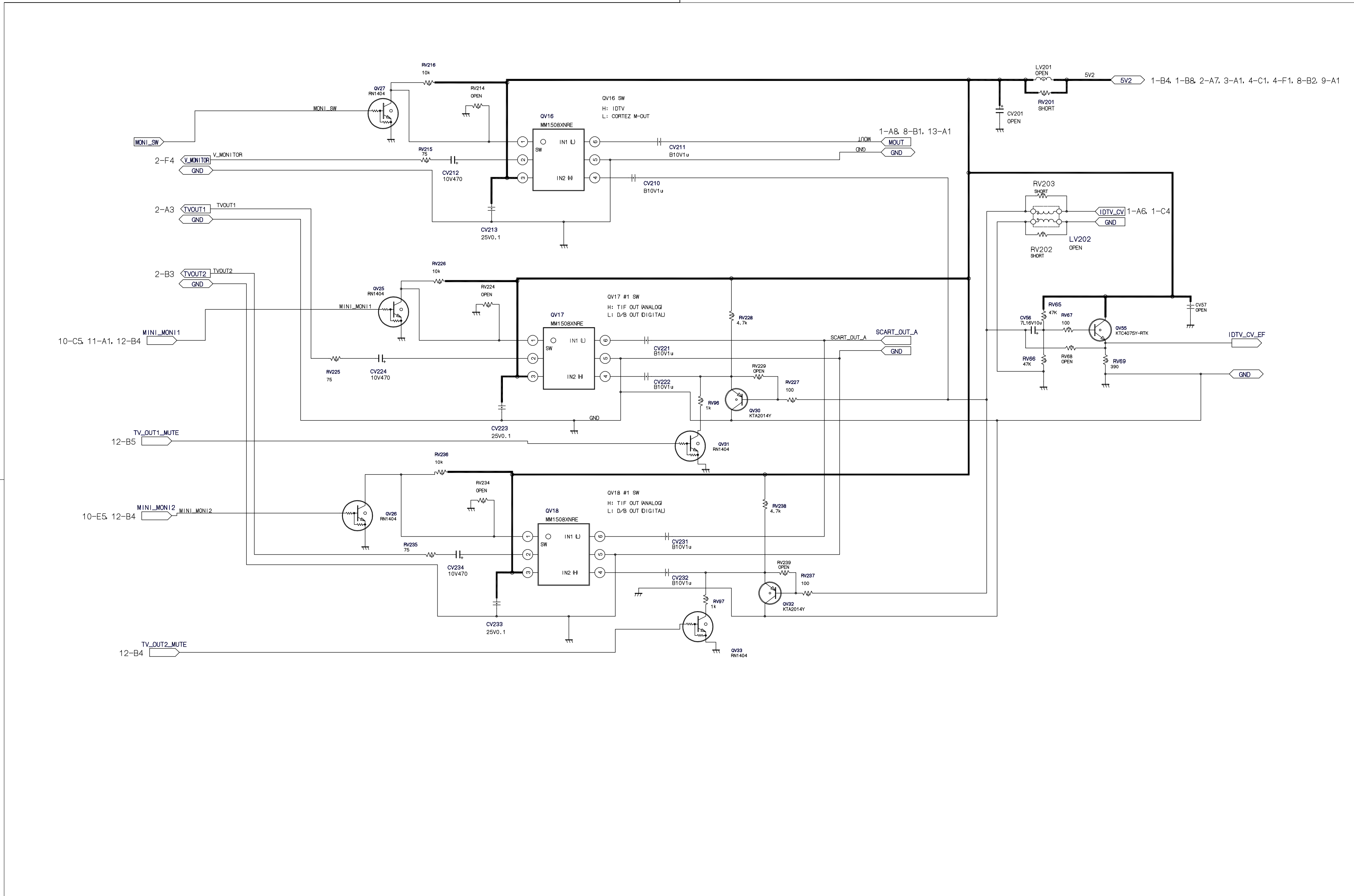
U02A AV_TERMINAL [4] MTS_HP_APRO_AOUT (PE0118)



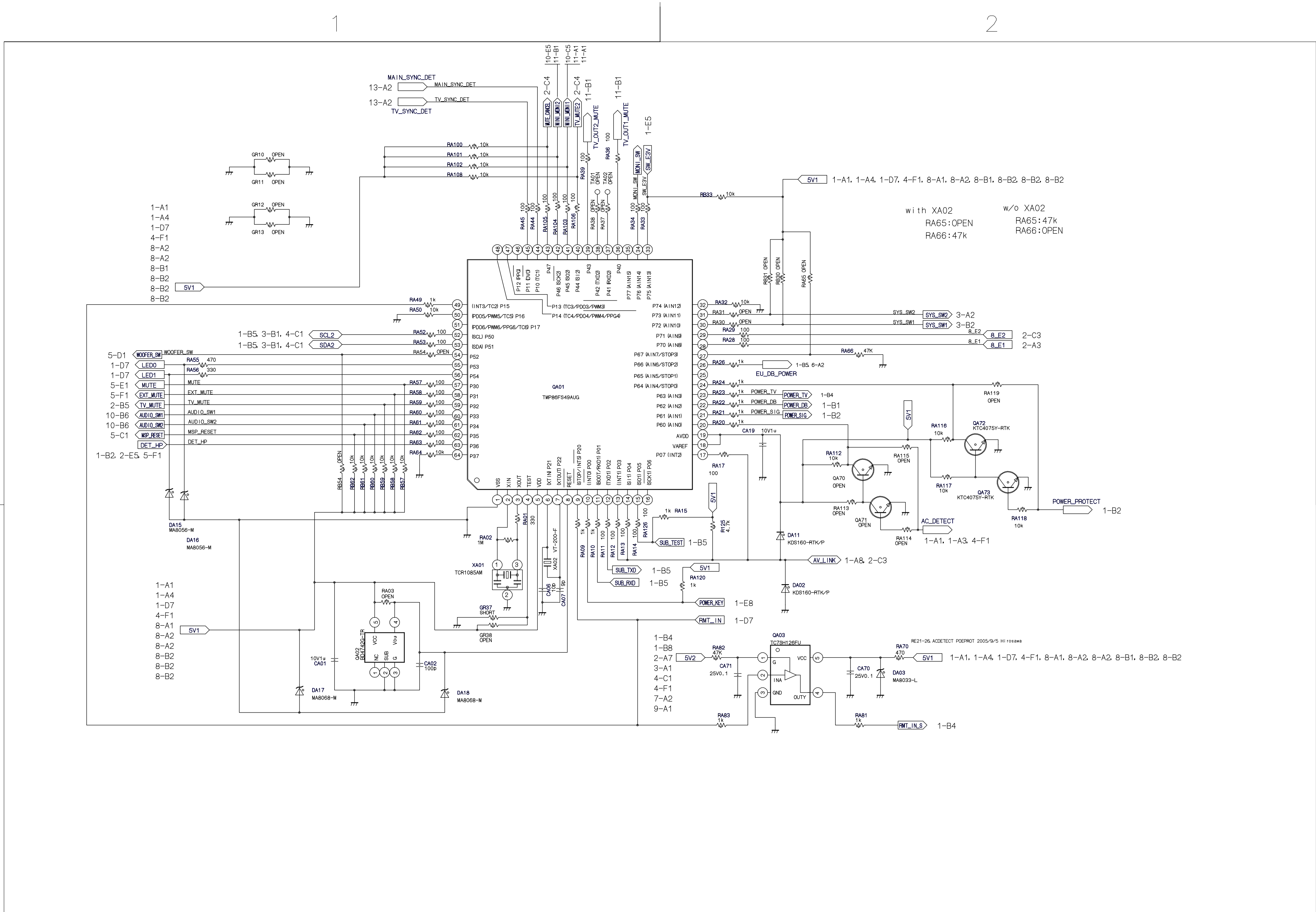
U02A AV_TERMINAL [5] EU_DIGITAL_RECEIVE CIRCUIT (PE0118)



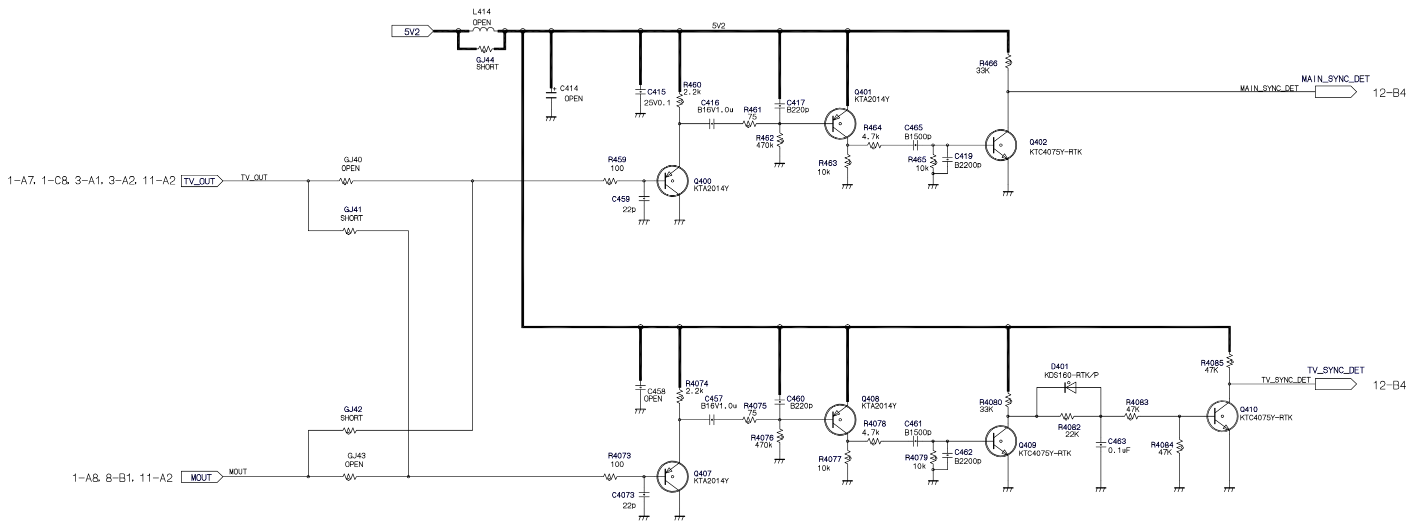
U02A AV_TERMINAL [6] AUDIO_SW (PE0118)



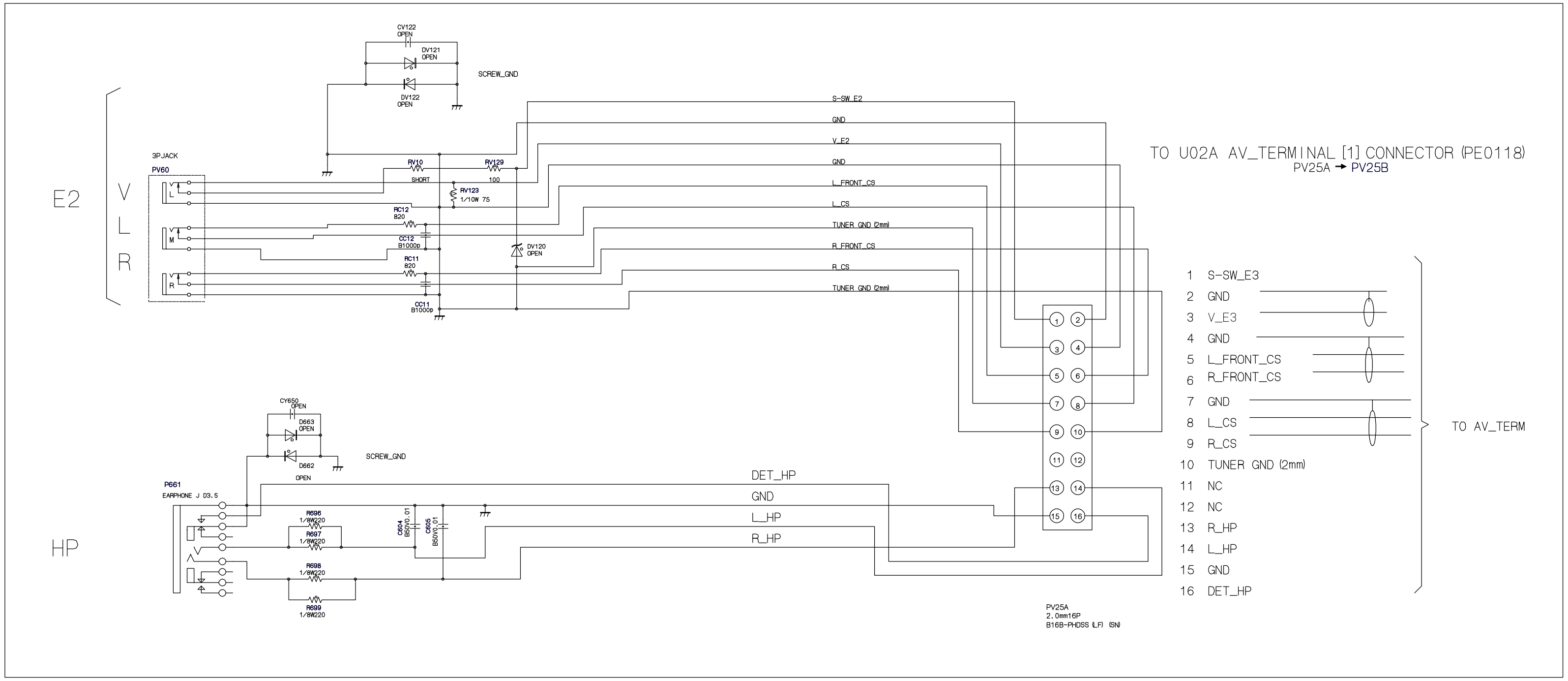
U02A AV_TERMINAL [7] TV-OUT&MONI-OUT (PE0118)



U02A AV_TERMINAL [8] STANDBY MICRO (PE0118)



U02A AV_TERMINAL [9] SYNC_DET (PE0118)

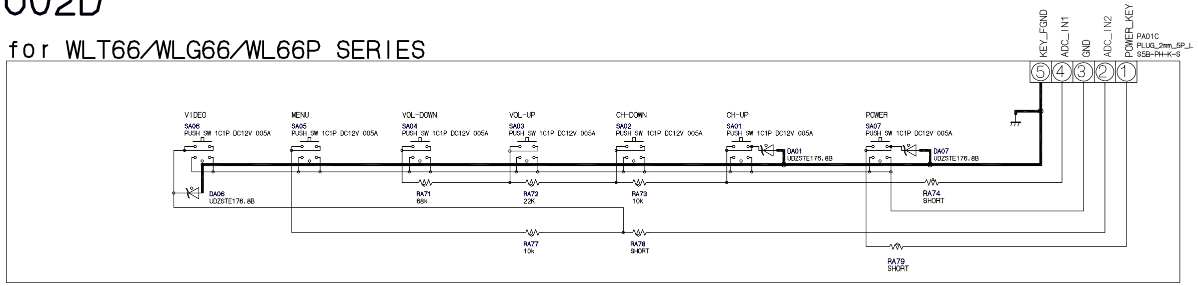


U02B FRONT_AV [10] FRONT-AV (PE0118)

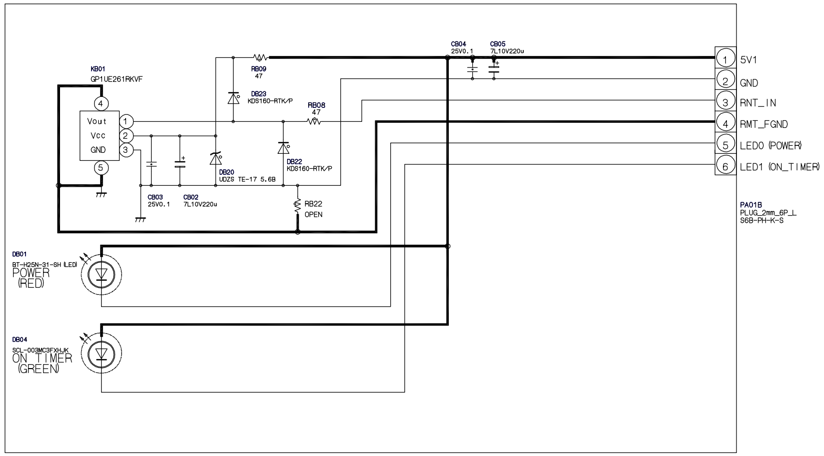
TO U02A AV_TERMINAL [1] CONNECTOR (PE0118)
PA01C → PA01A

U02D

for WLT66/WLG66/WL66P SERIES



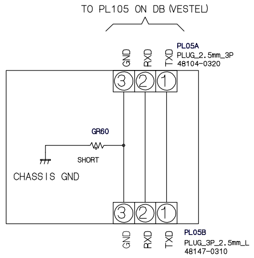
U02C



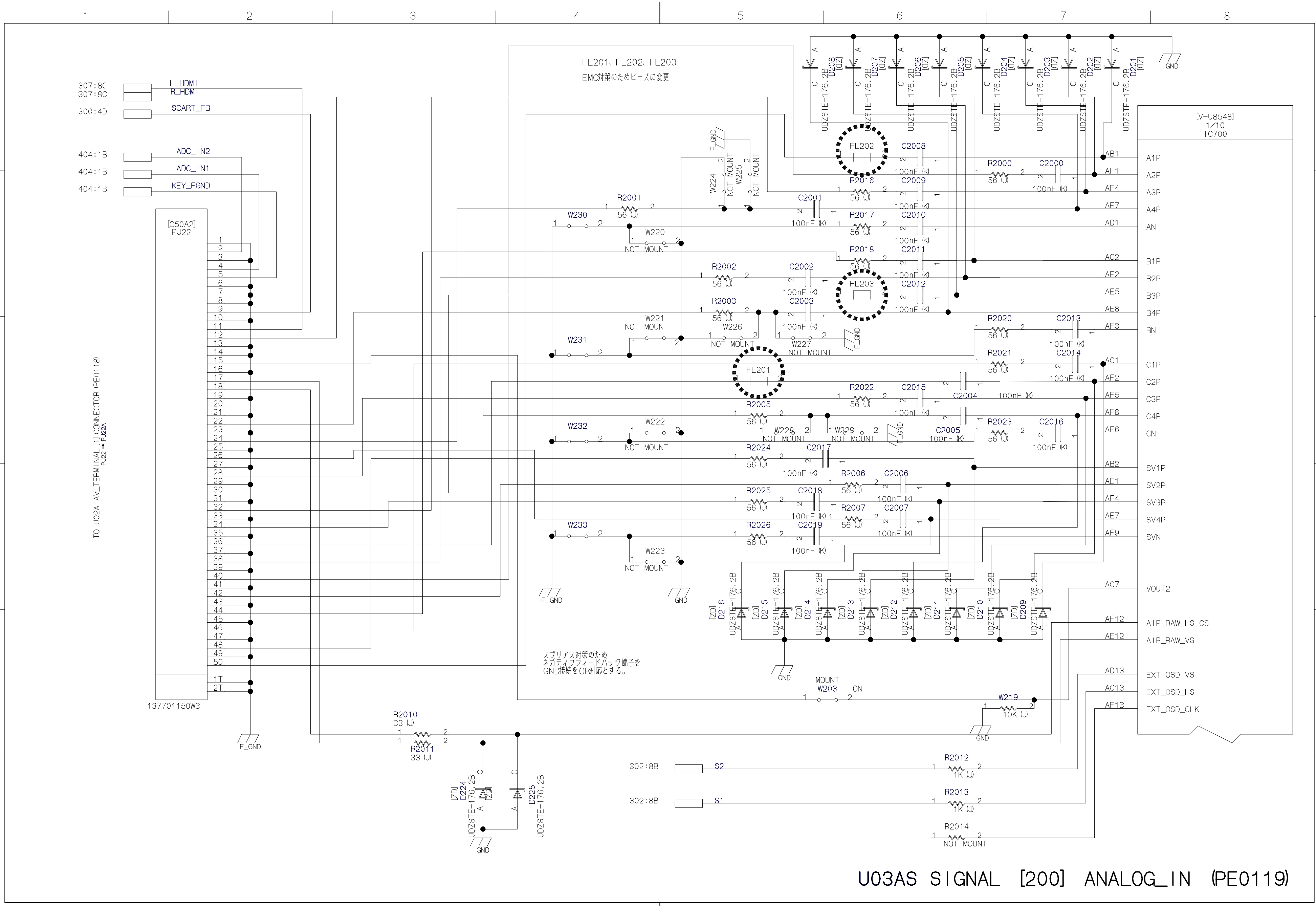
TO U02A AV_TERMINAL [1] CONNECTOR (PE0118)
PA01B → PA01A

U02C/D LED/KEY [11] KEY & LED (PE0118)

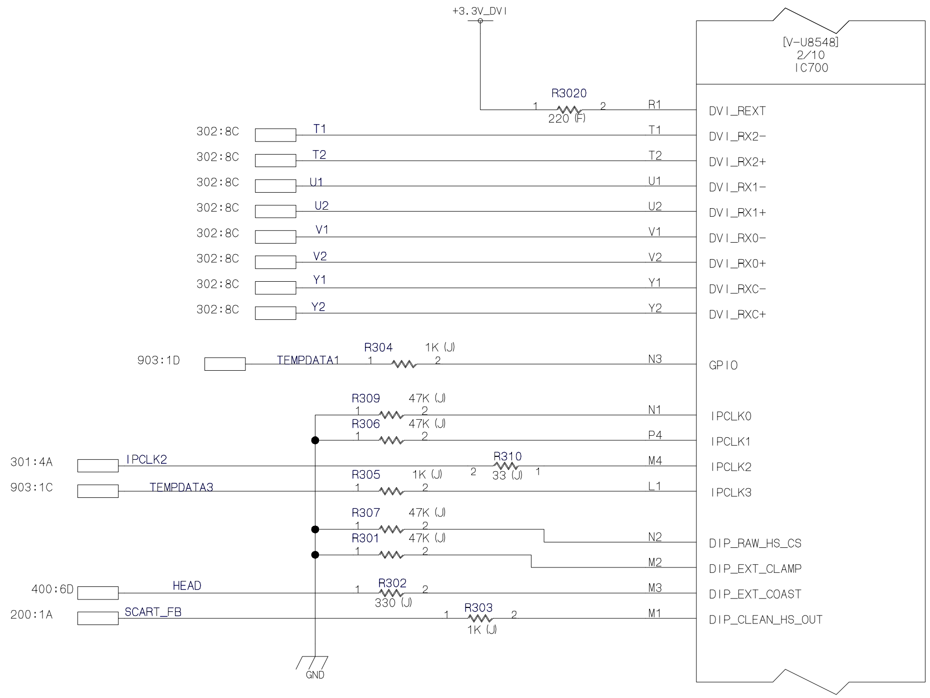
for WLT66 and WLG66 SERIES



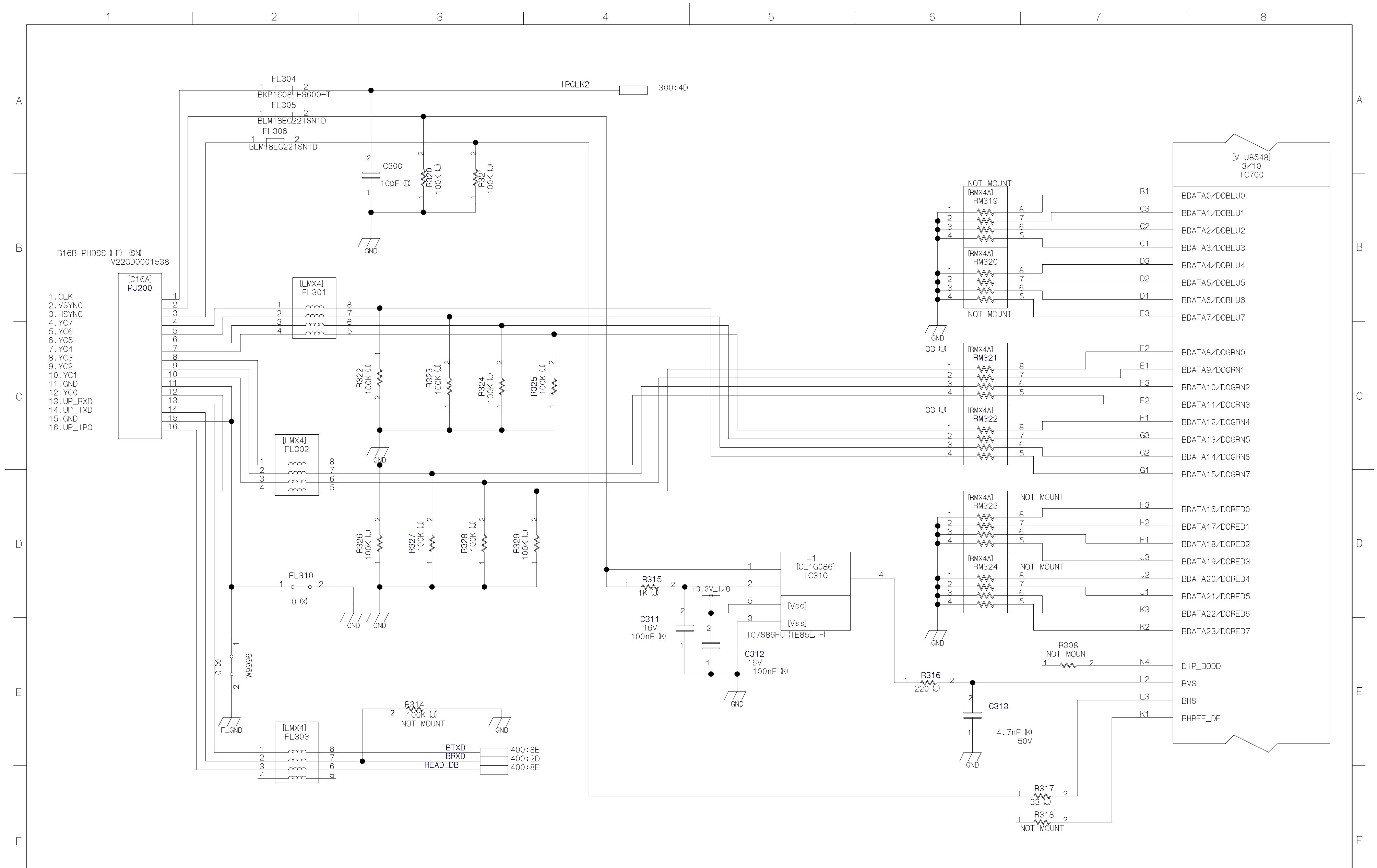
U02E DB_DOWNLOAD [12] DB DOWNLOAD (PE0118)



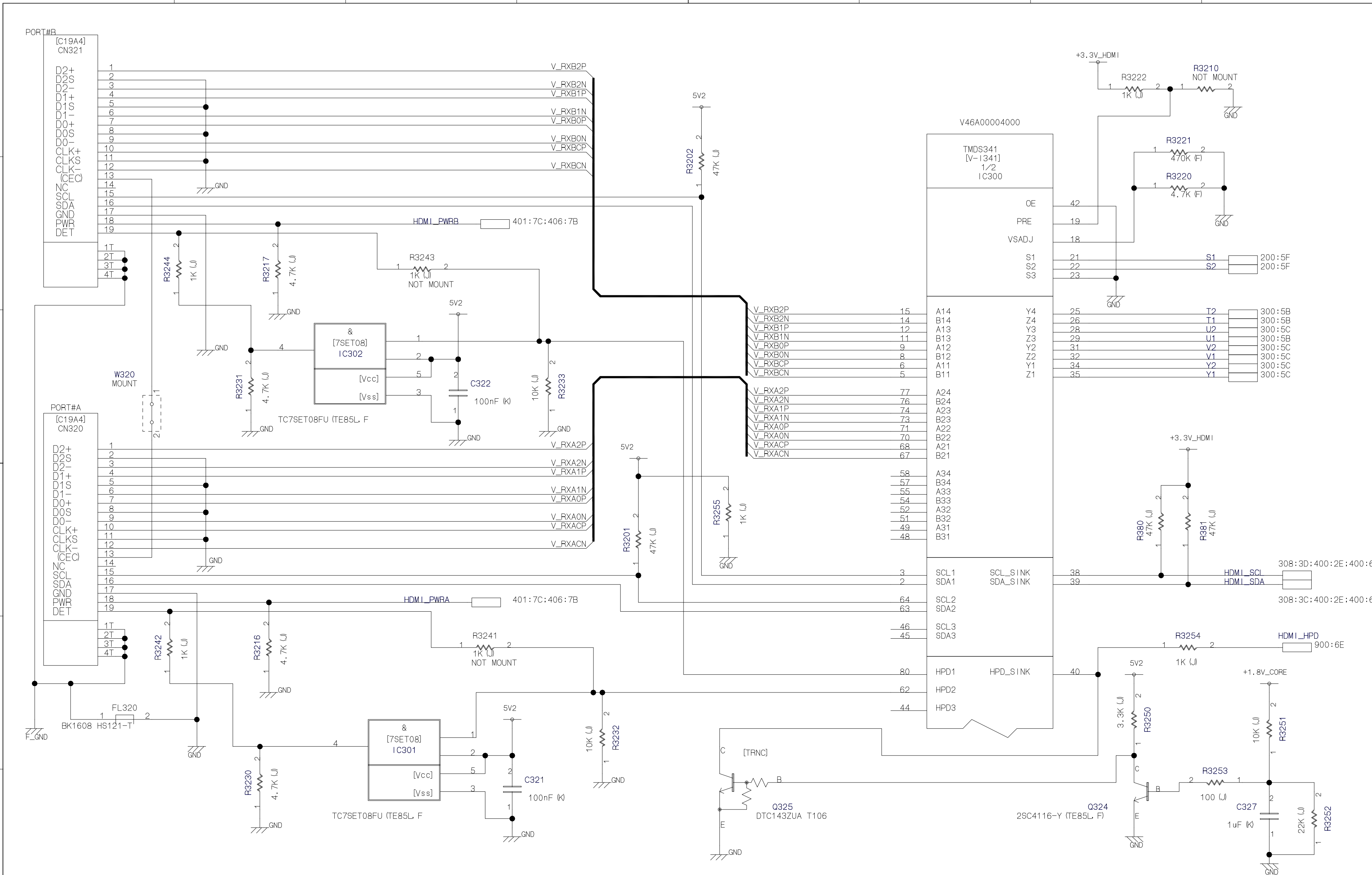
U03AS SIGNAL [200] ANALOG_IN (PE0119)



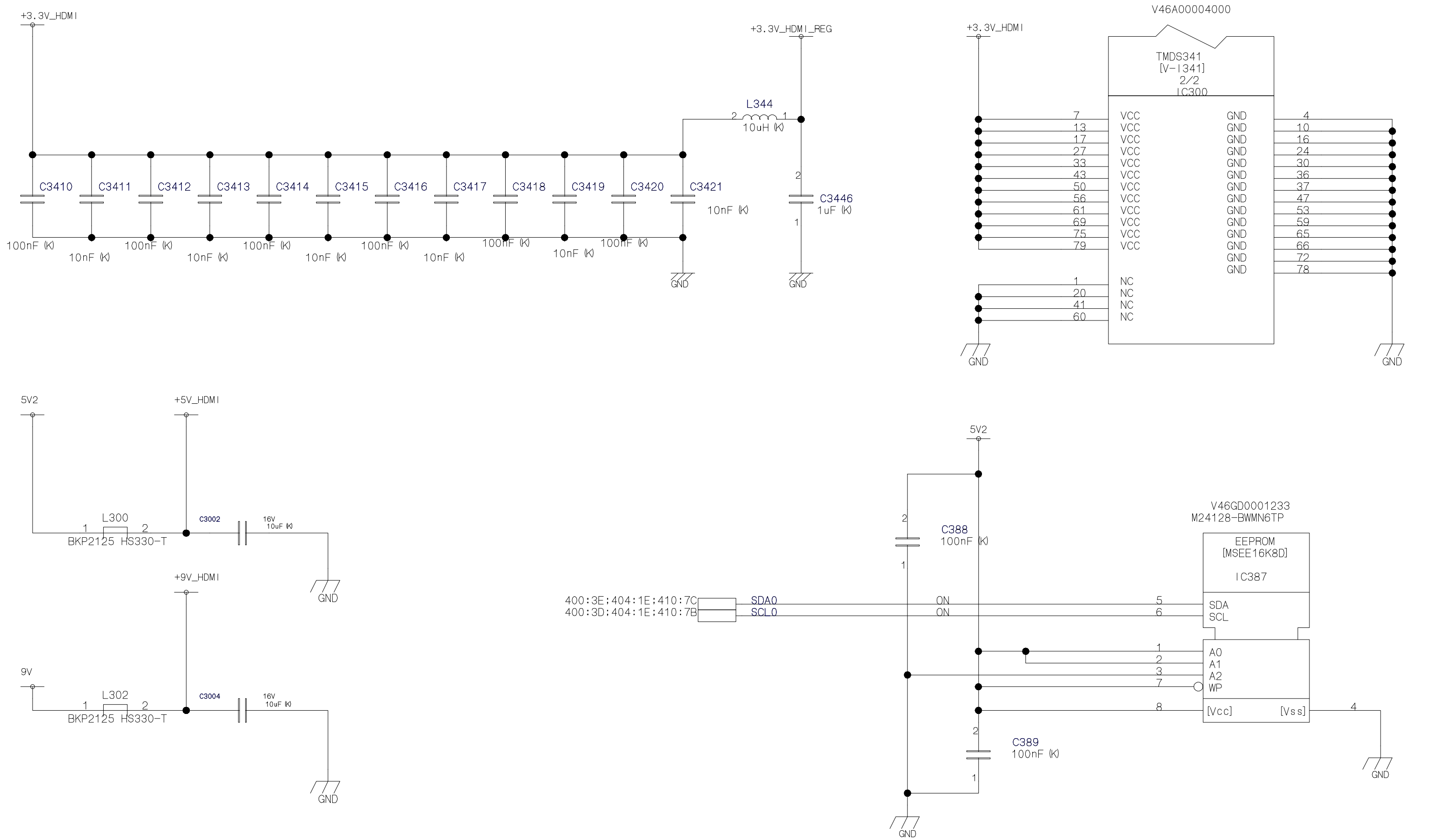
U03AS SIGNAL [300] DIGITAL_IN_A (PE0119)



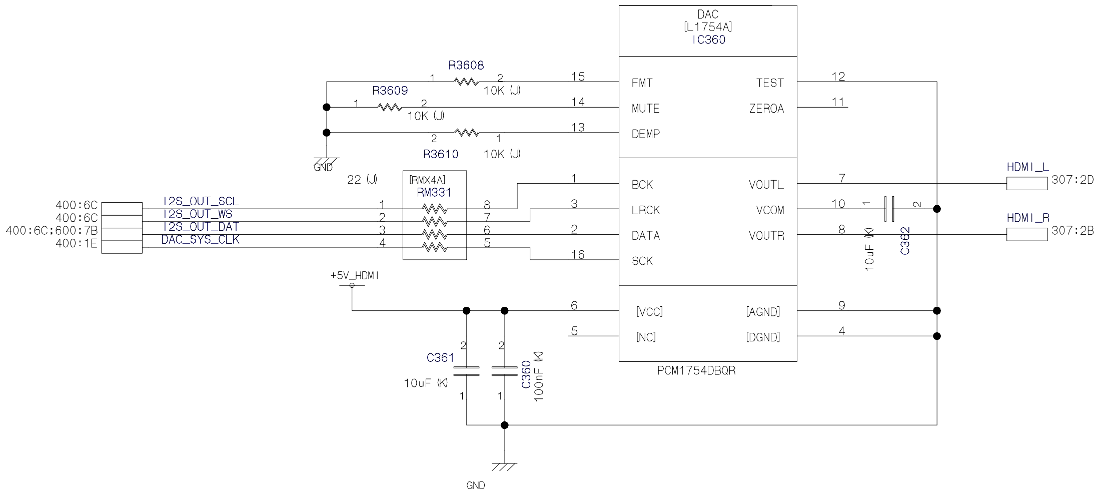
U03AS SIGNAL [301] DIGITAL_IN_B (PE0119)



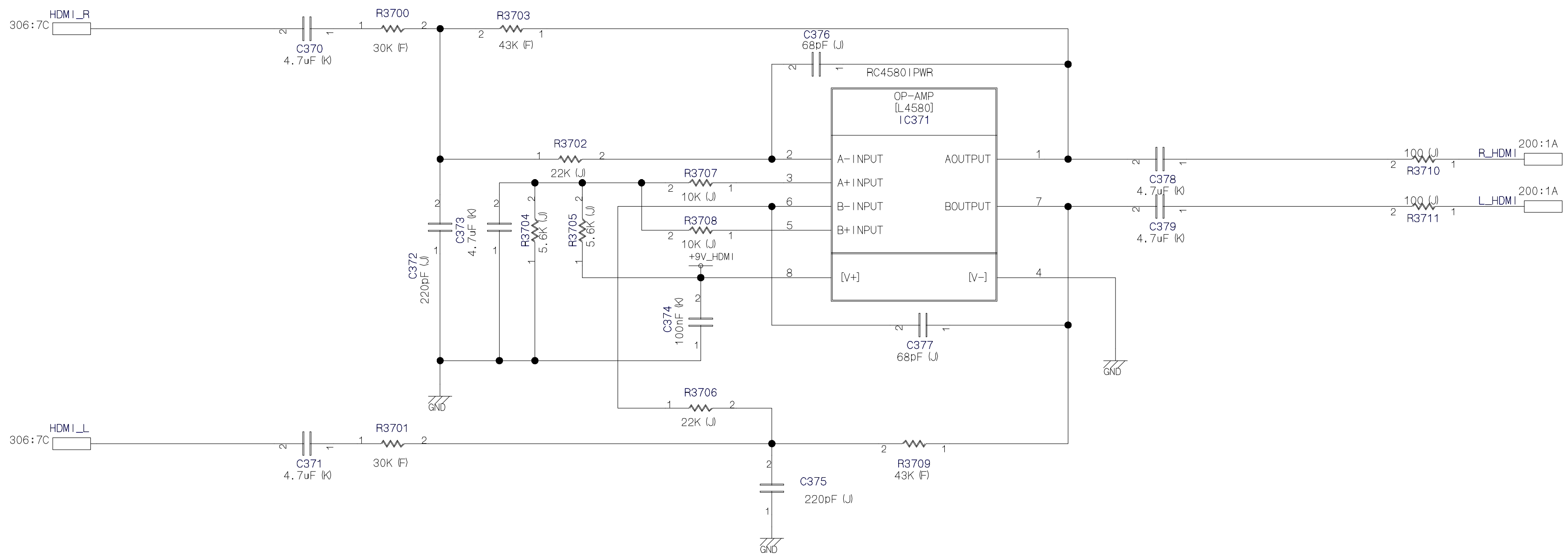
U03AS SIGNAL [302] HDMI (Link, I2C) (PE0119)



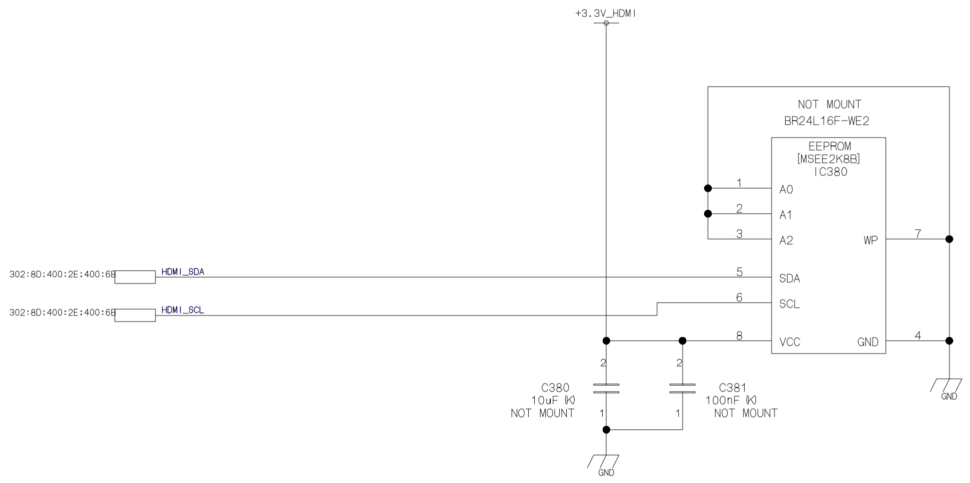
U03AS SIGNAL [304] HDMI POWER (PE0119)



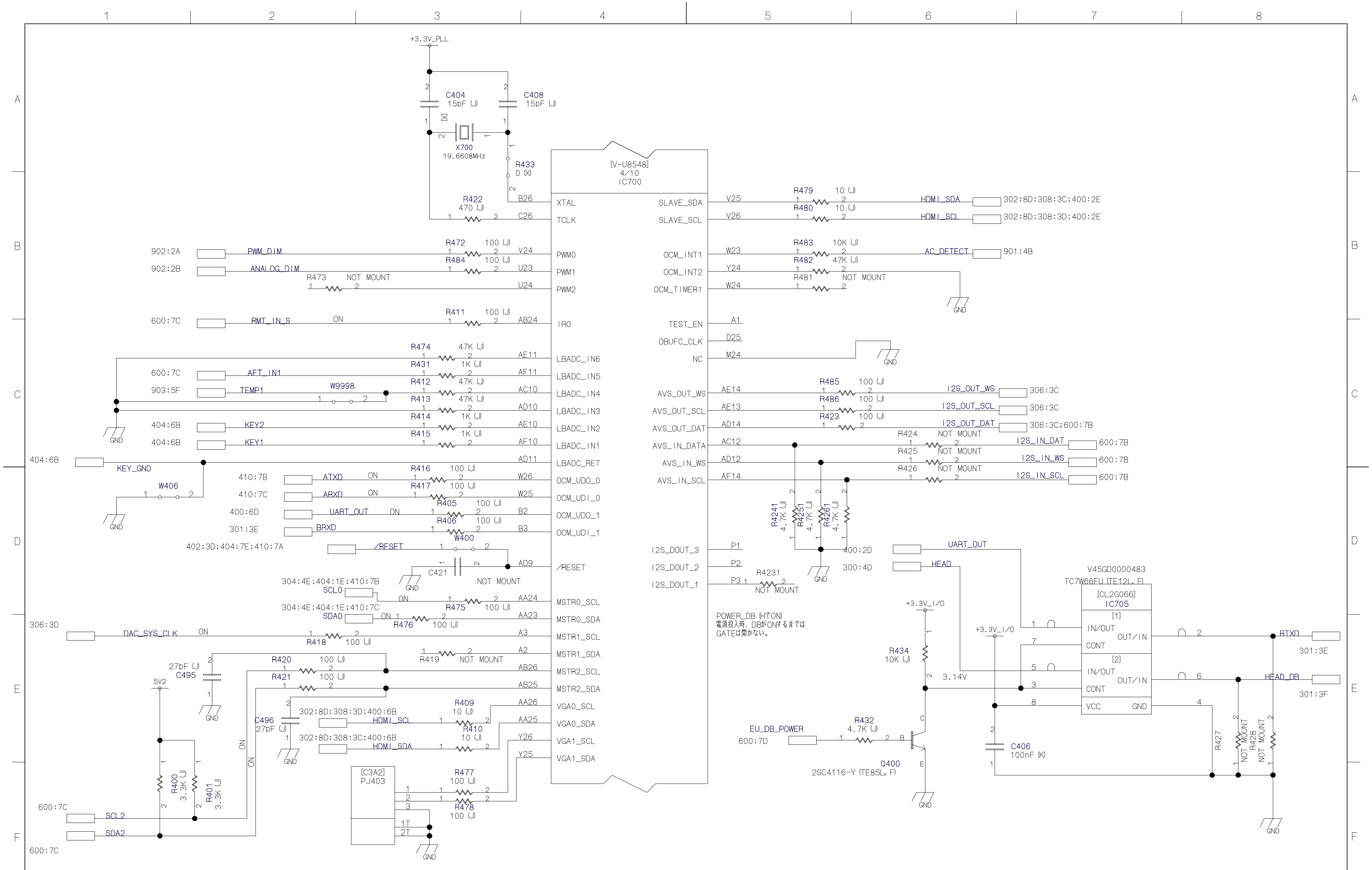
U03AS SIGNAL [306] HDMI_AUDIO_DAC (PE0119)



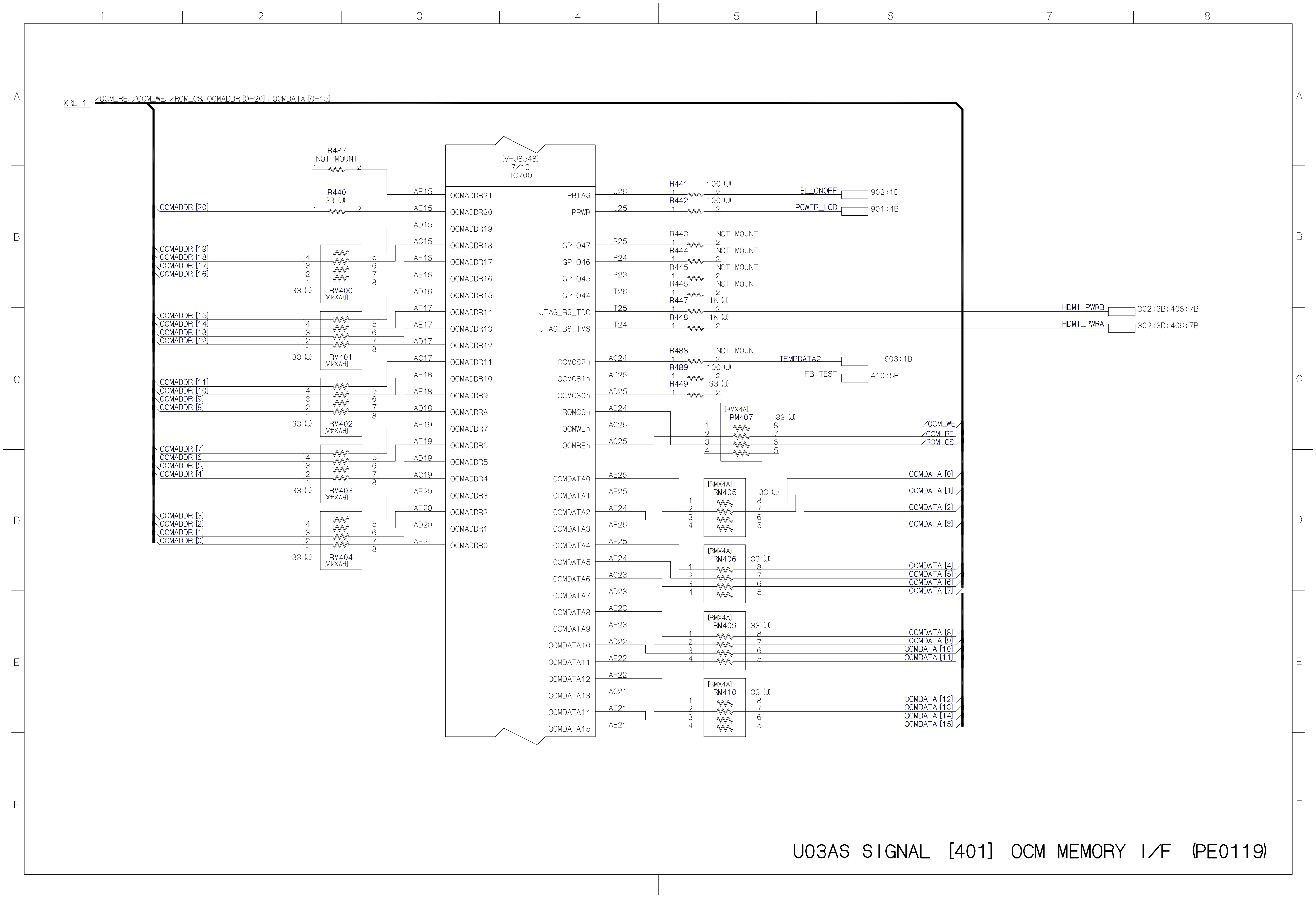
U03AS SIGNAL [307] HDMI_AUDIO_OUT (PE0119)



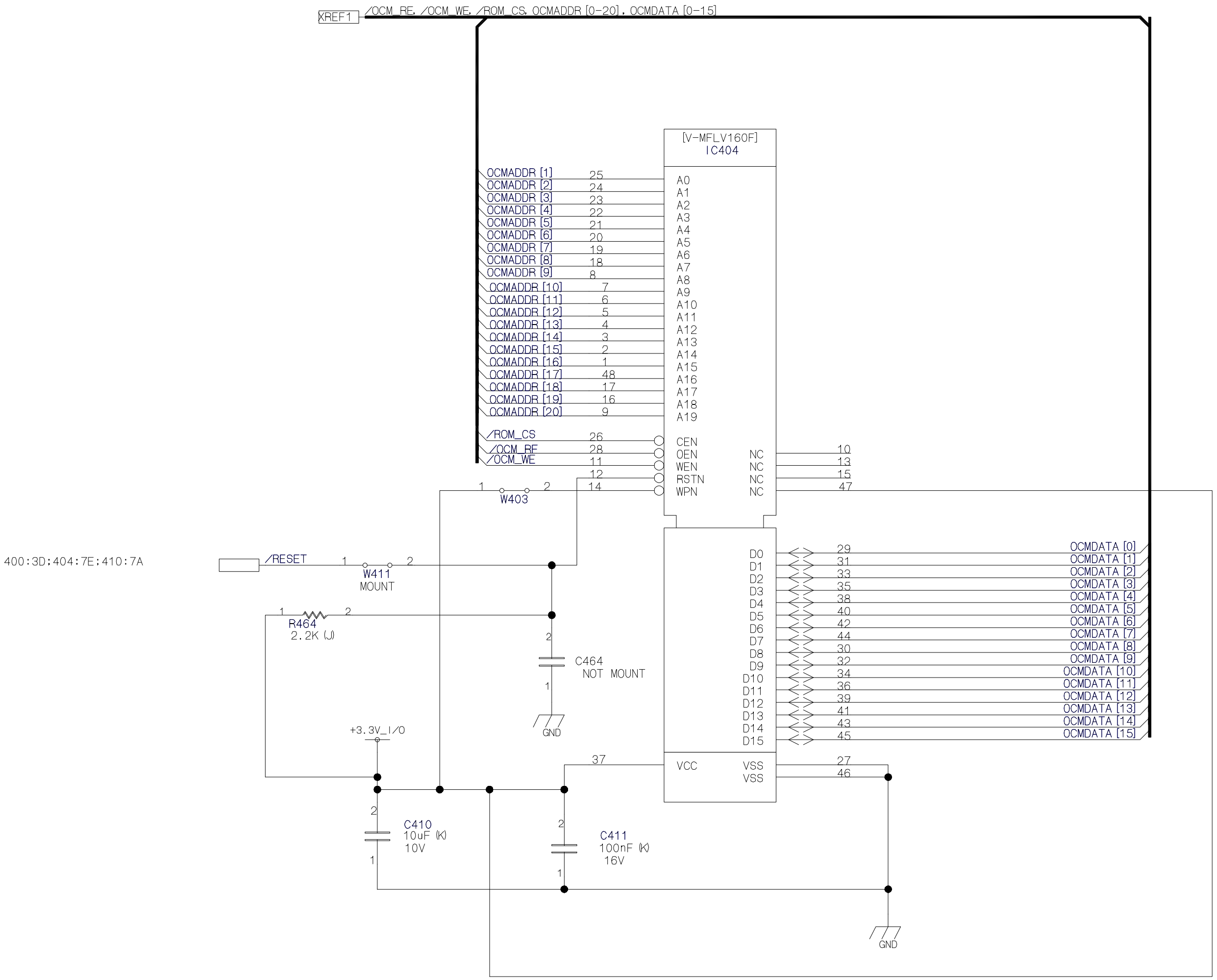
U03AS SIGNAL [308] HDMI EEPROM [EDID] (PE0119)



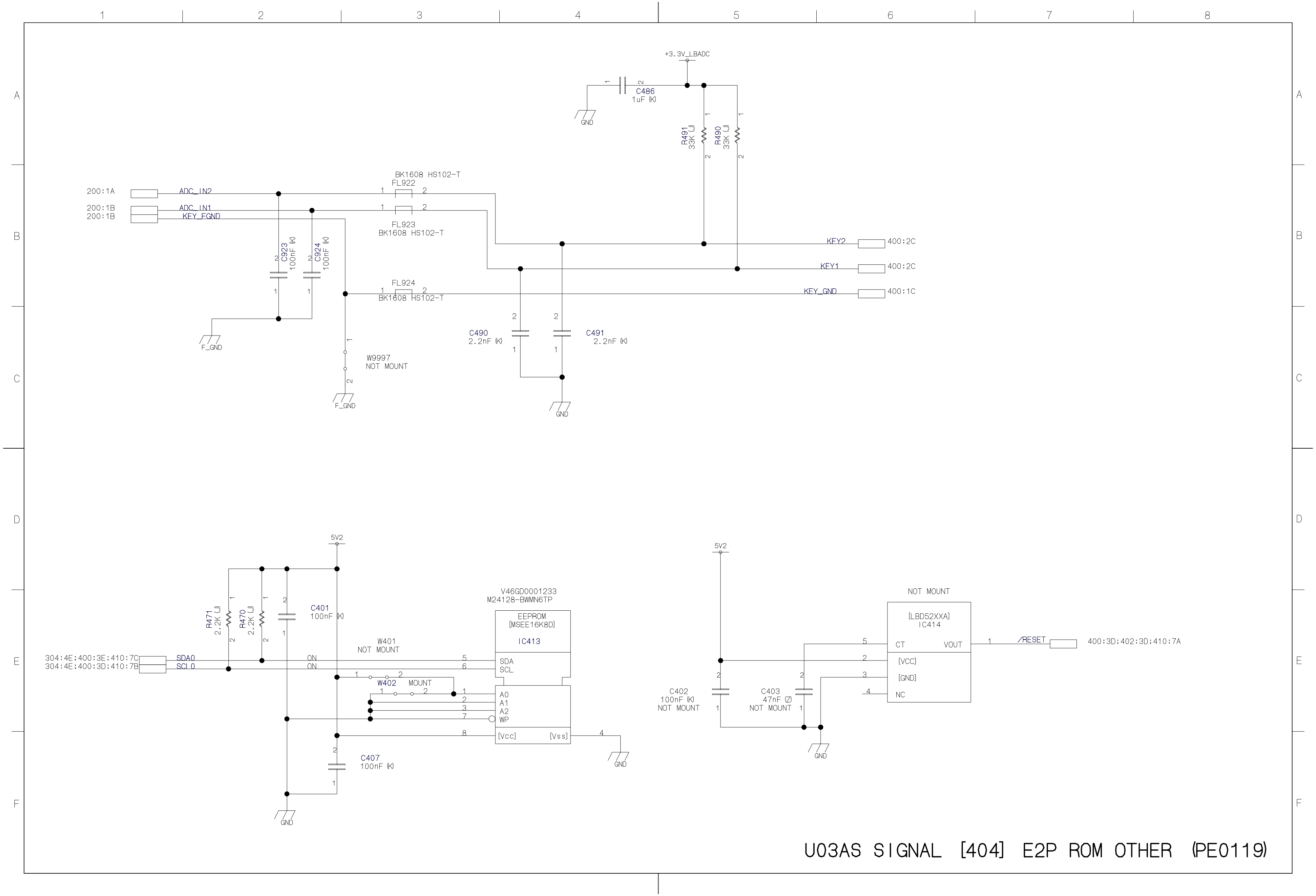
U03AS SIGNAL [400] MICRO I/O (PE0119)



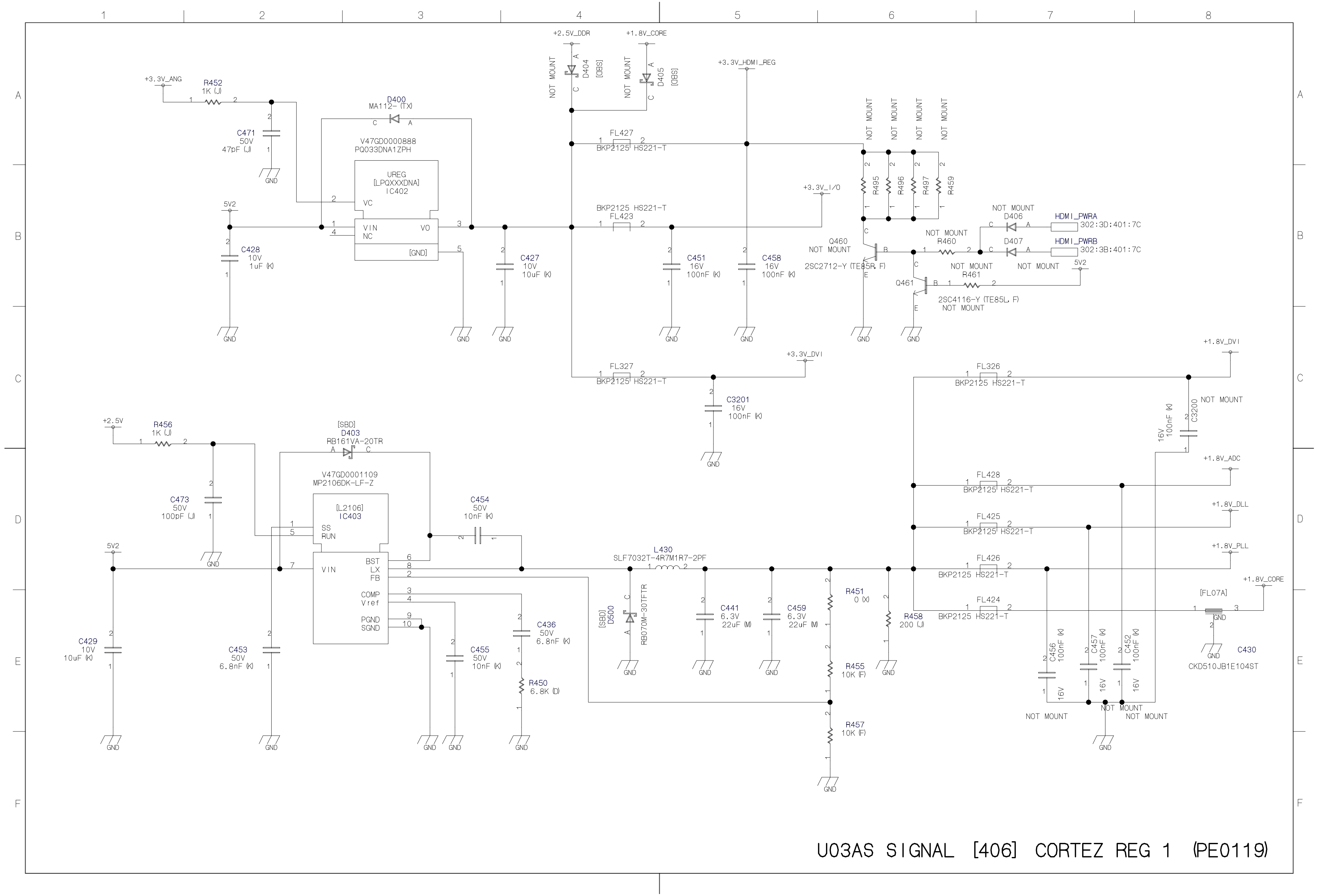
U03AS SIGNAL [401] OCM MEMORY I/F (PE0119)



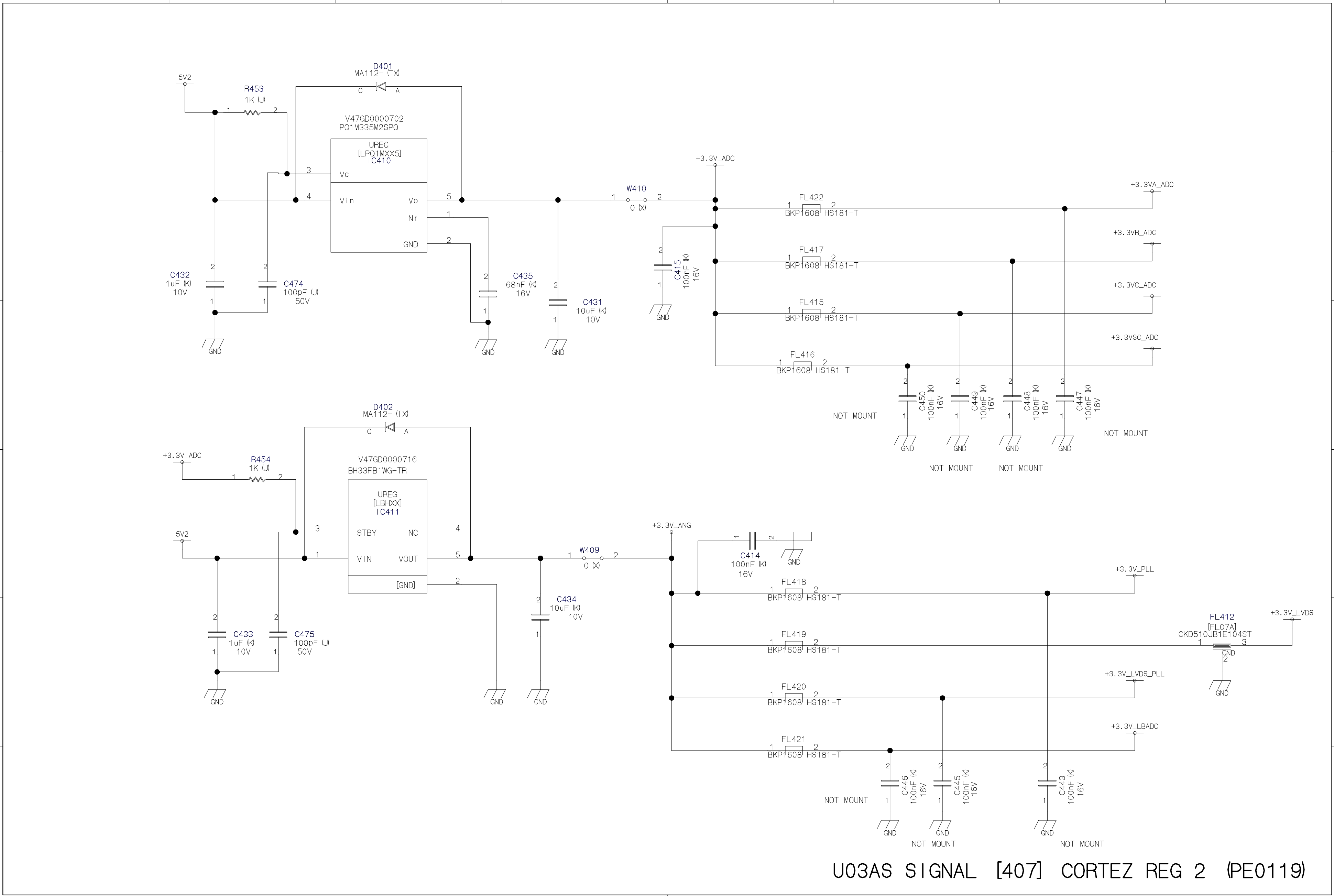
U03AS SIGNAL [402] FLASH MEMORY (PE0119)



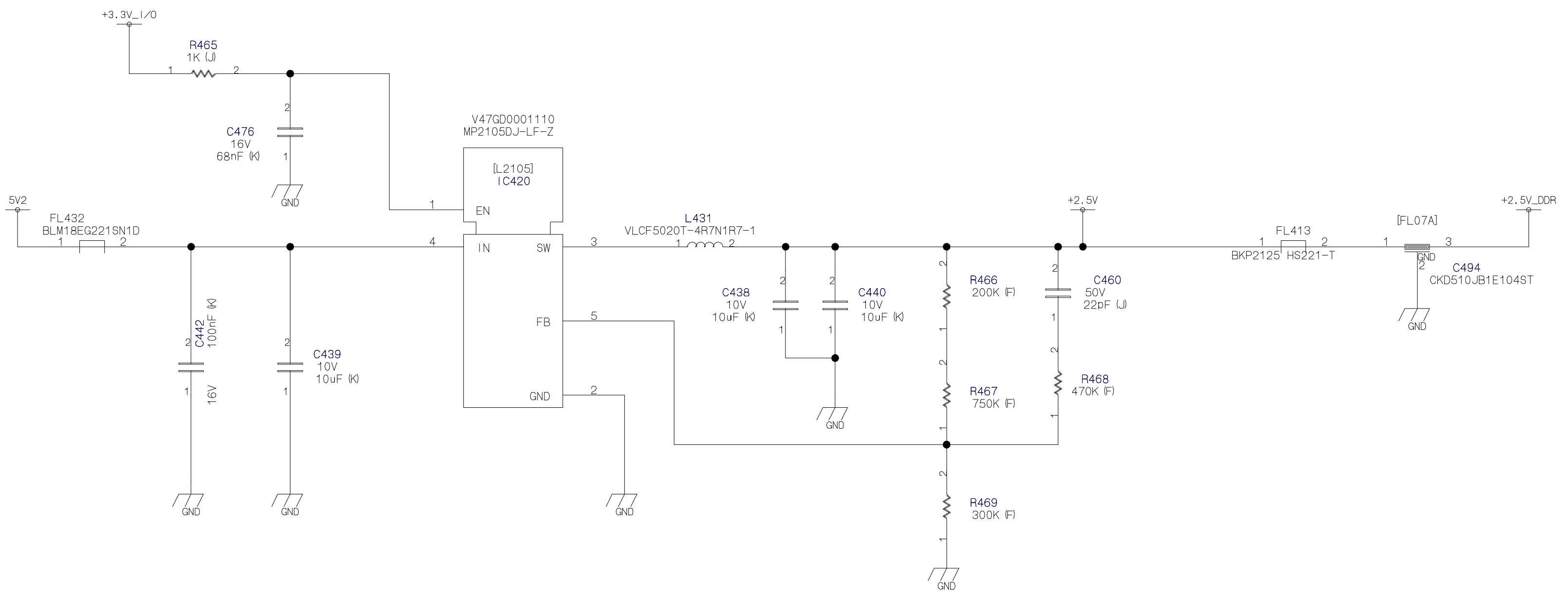
U03AS SIGNAL [404] E2P ROM OTHER (PE0119)



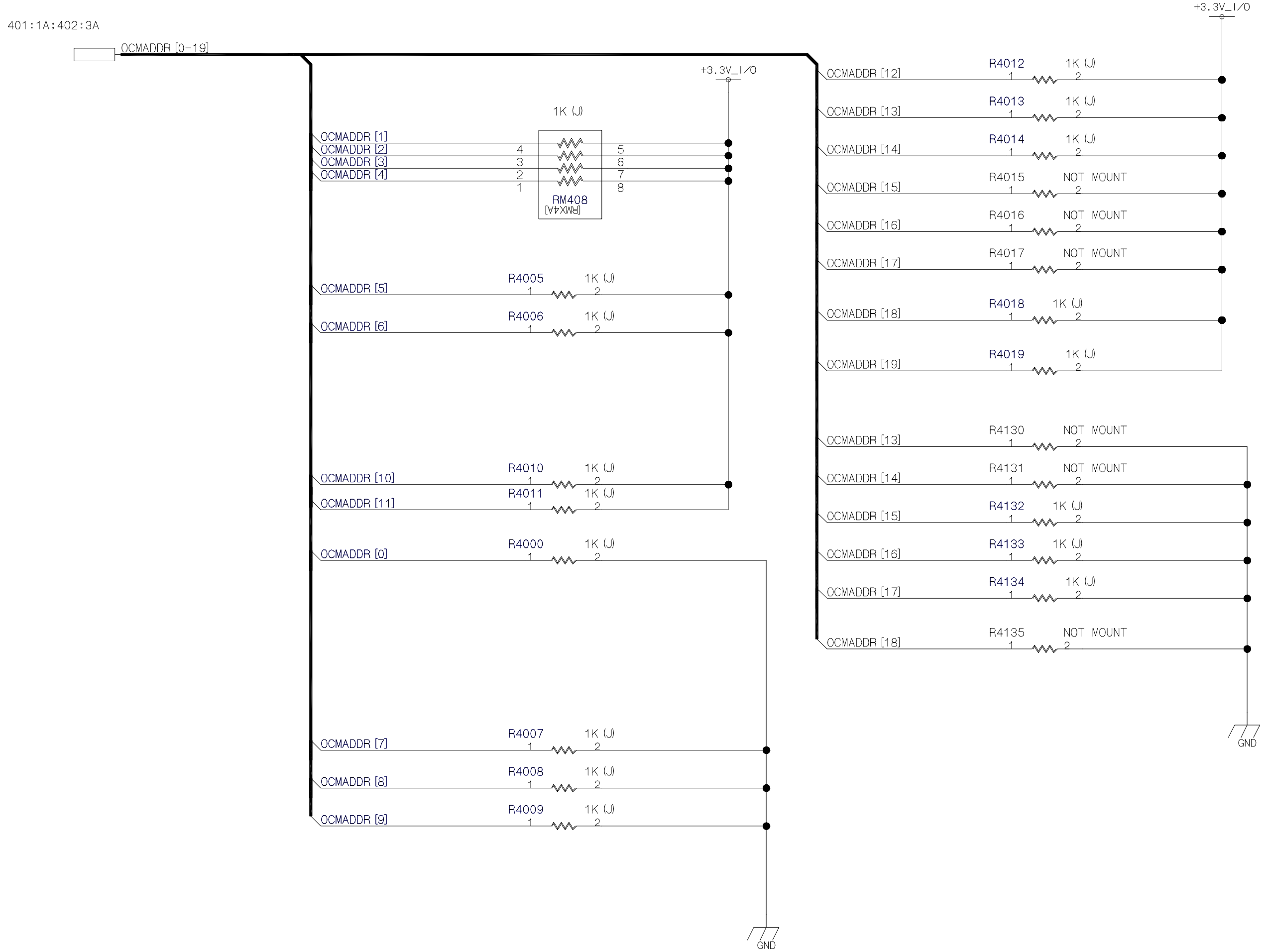
U03AS SIGNAL [406] CORTEZ REG 1 (PE0119)



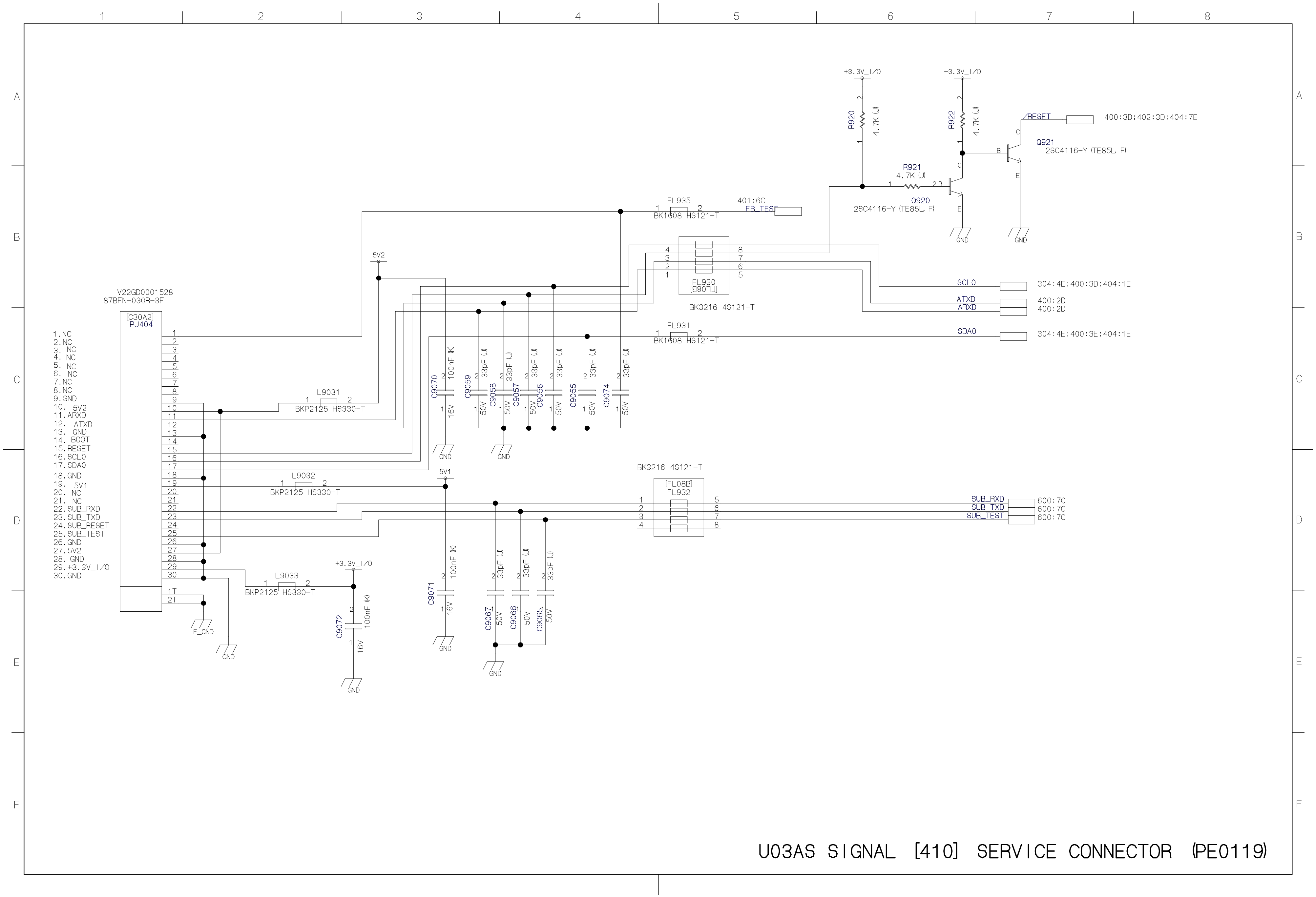
U03AS SIGNAL [407] CORTEZ REG 2 (PE0119)



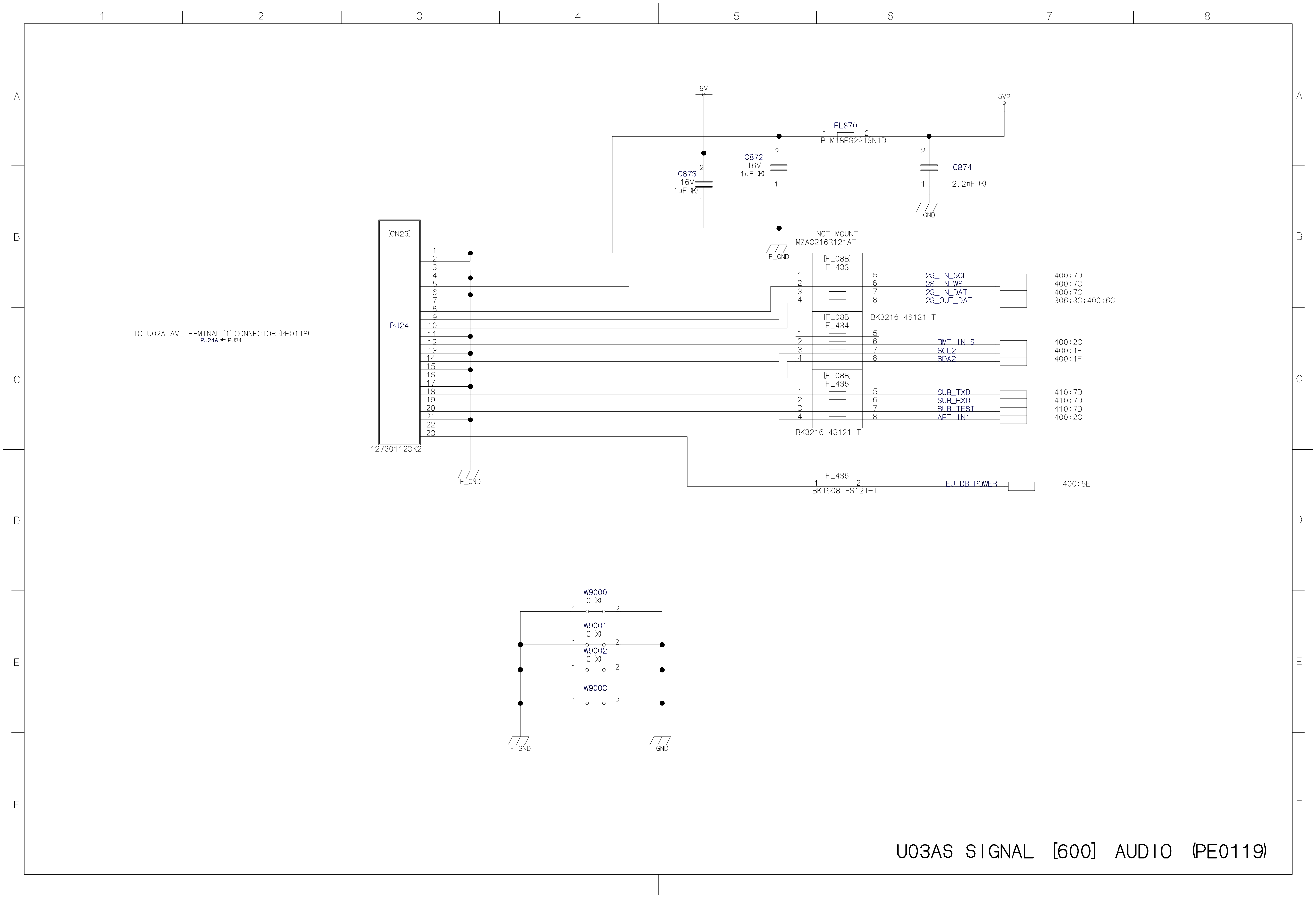
U03AS SIGNAL [408] CORTEZ REG 3 (PE0119)



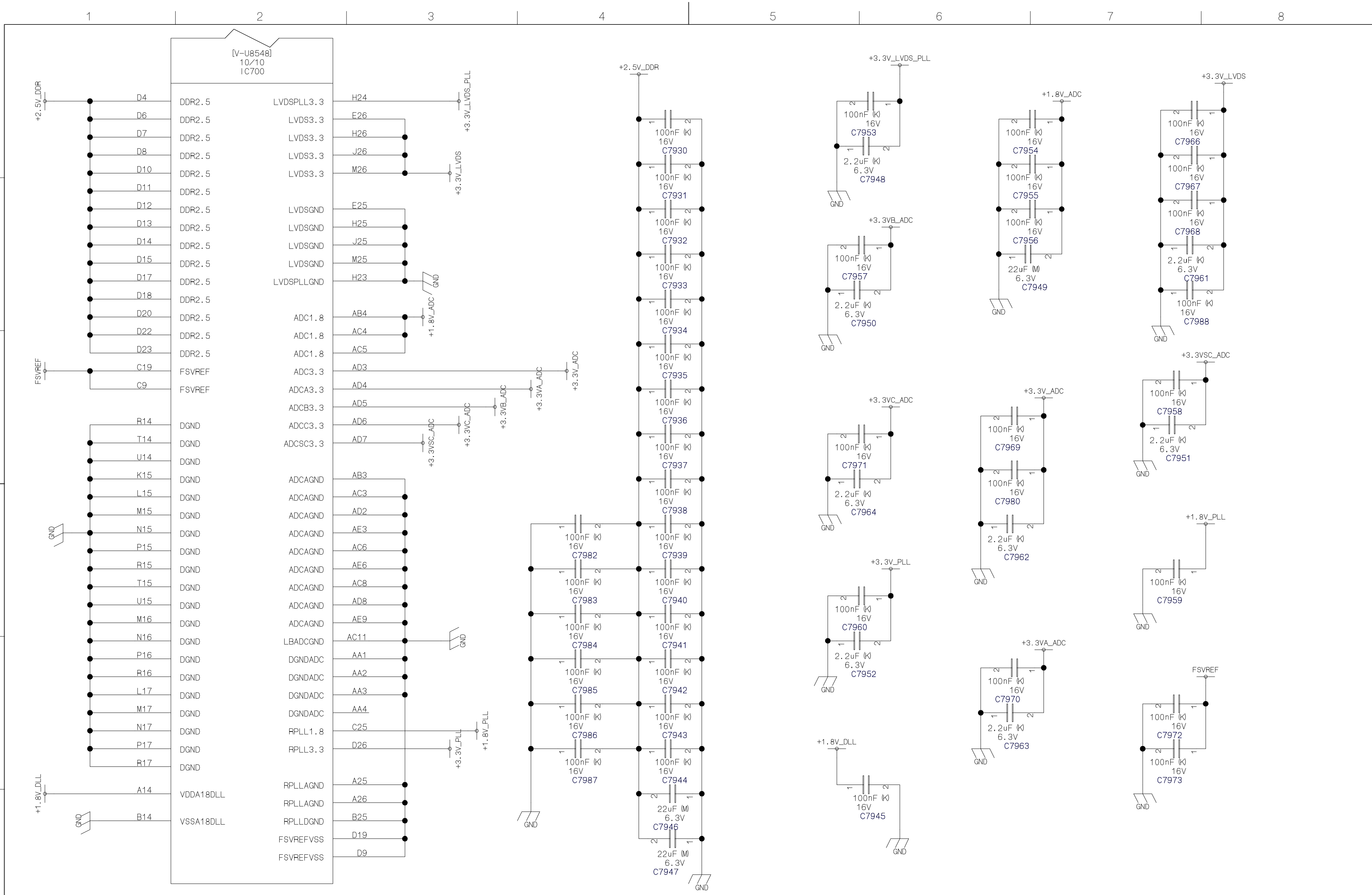
U03AS SIGNAL [409] BOOT CONFIG (PE0119)



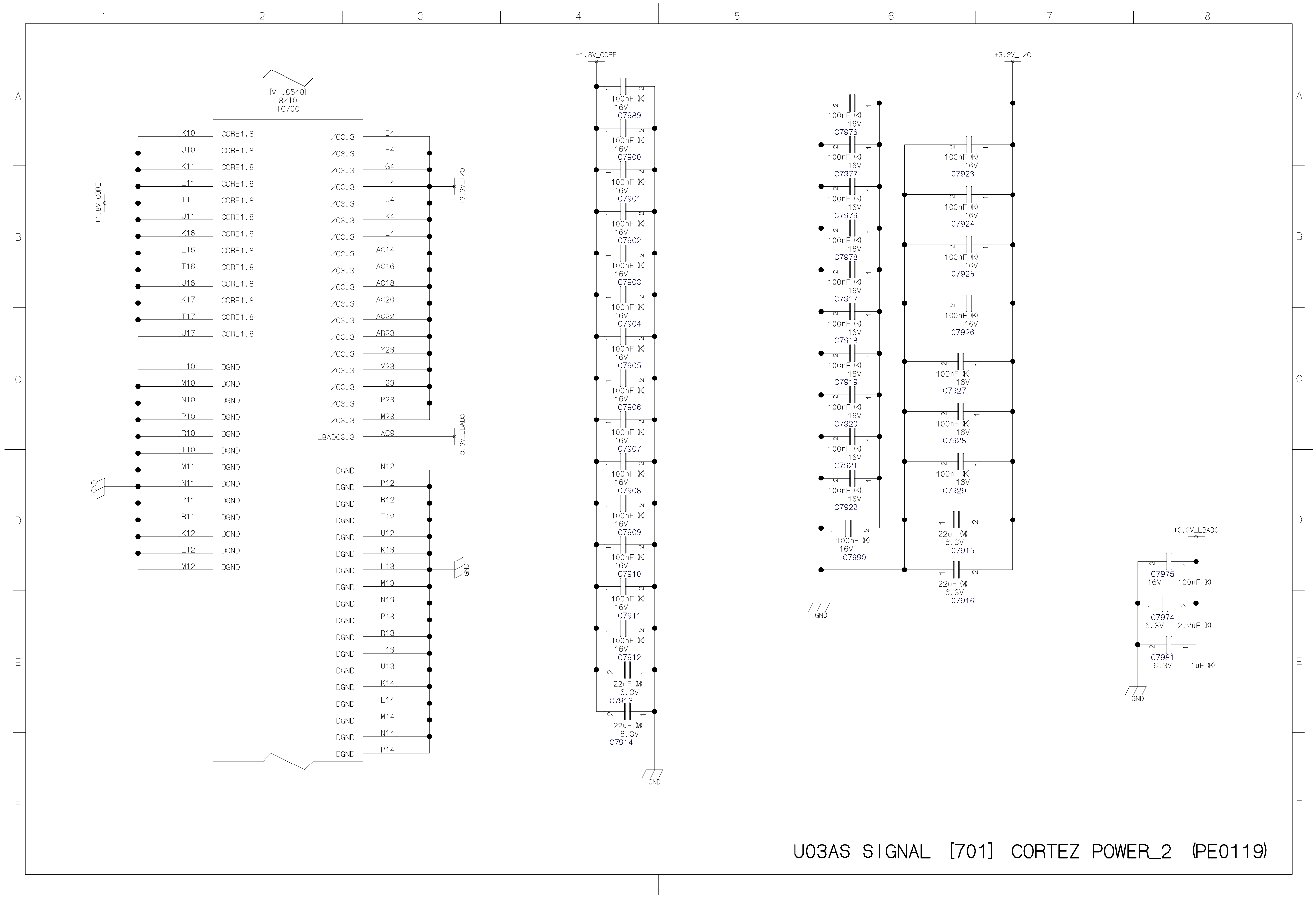
U03AS SIGNAL [410] SERVICE CONNECTOR (PE0119)



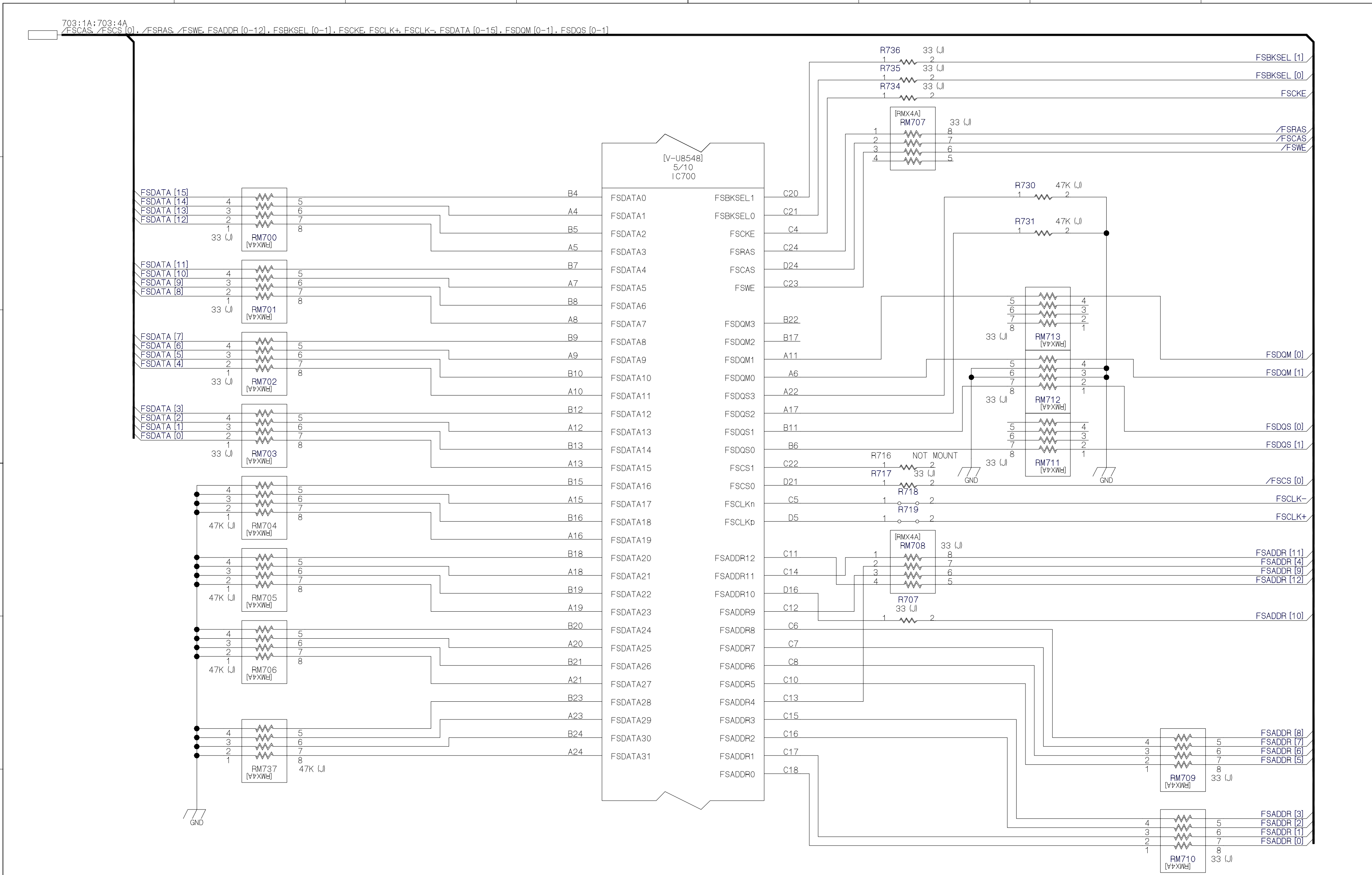
U03AS SIGNAL [600] AUDIO (PE0119)



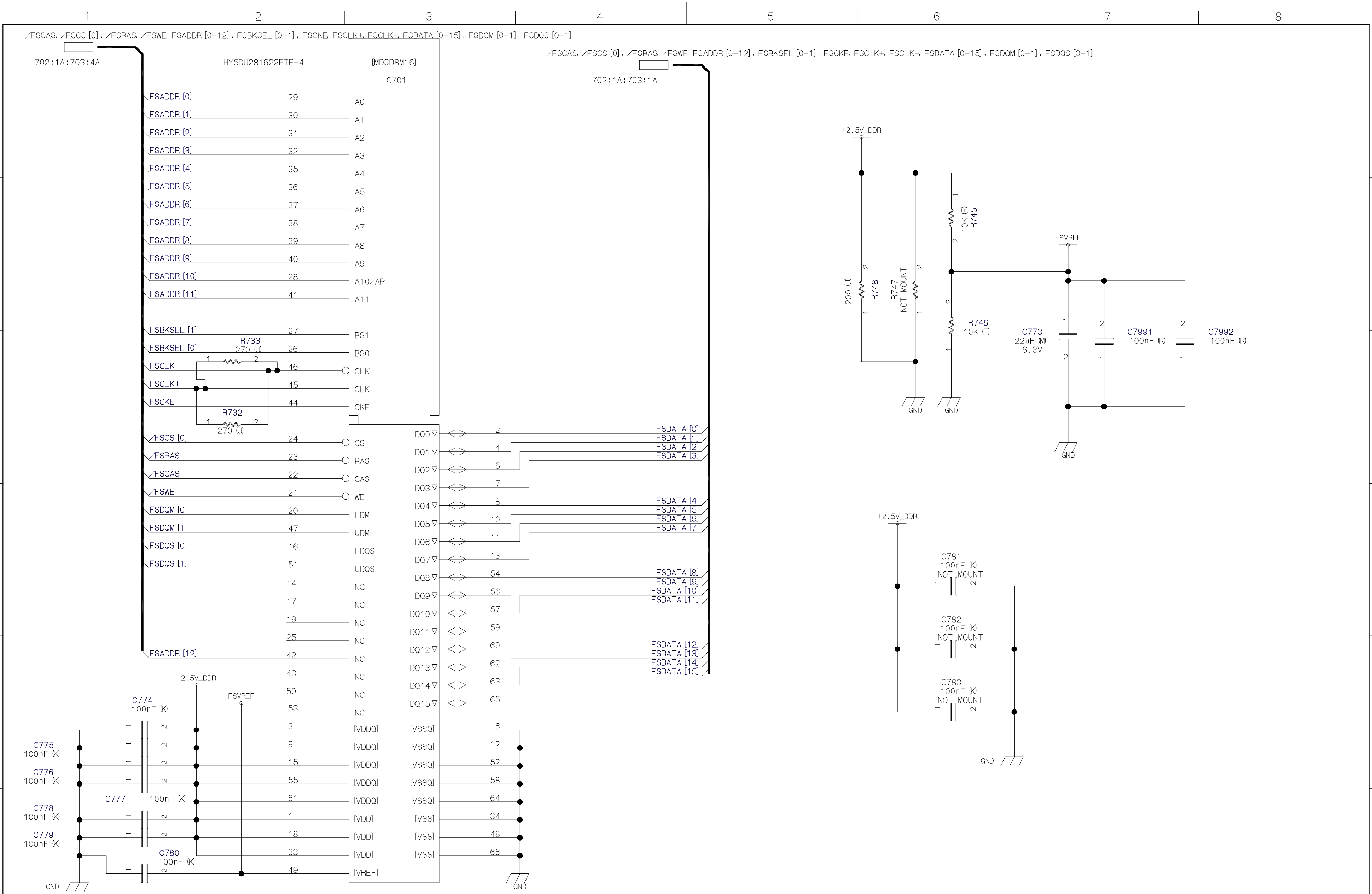
U03AS SIGNAL [700] CORTEZ POWER_1 (PE0119)



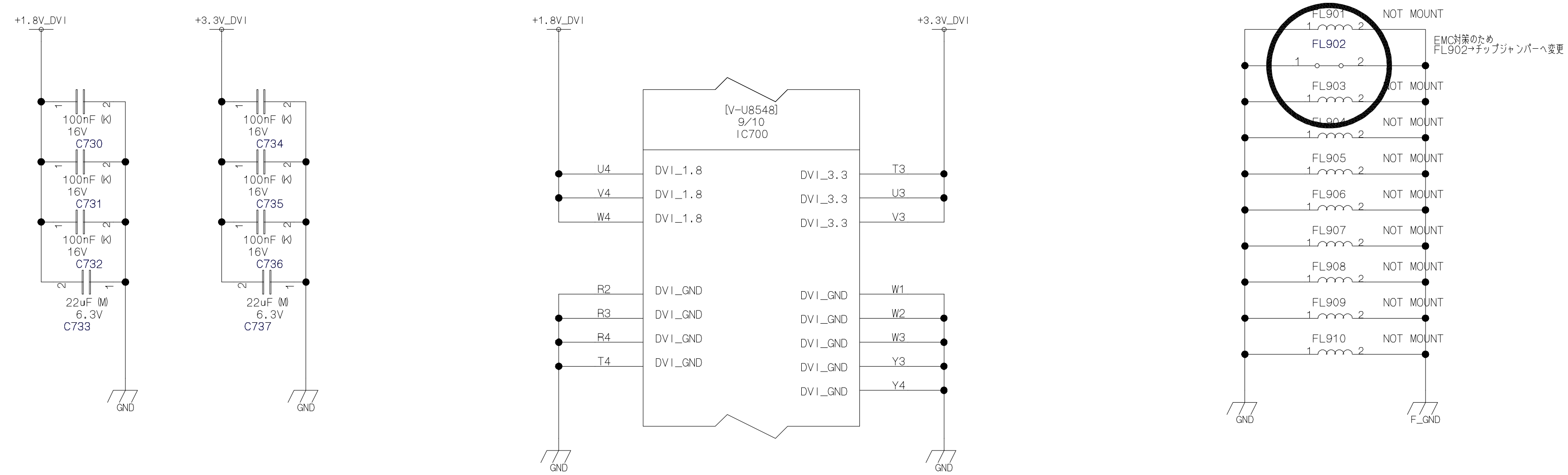
U03AS SIGNAL [701] CORTEZ POWER_2 (PE0119)



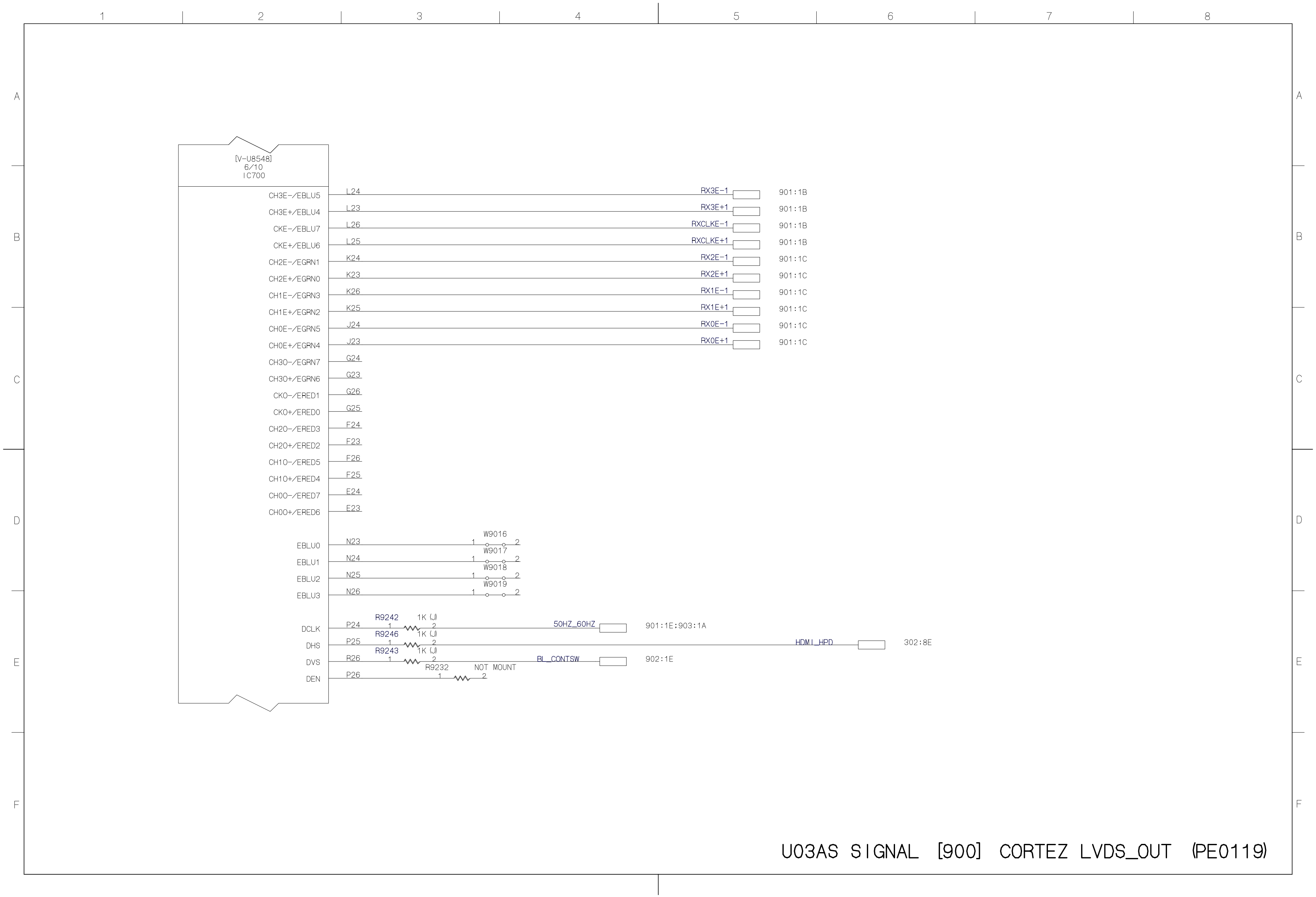
U03AS SIGNAL [702] CORTEZ DDR I/F (PE0119)



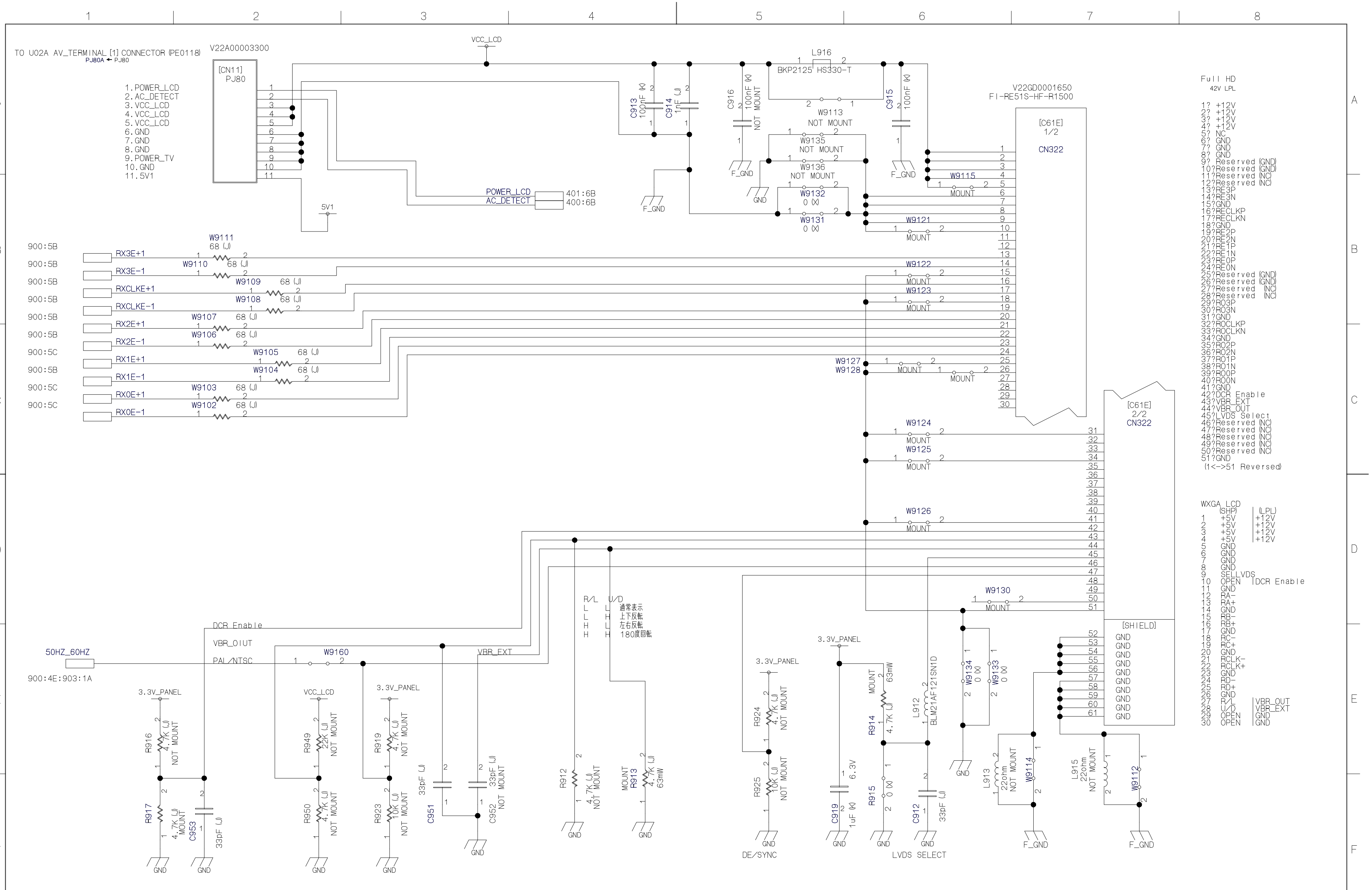
U03AS SIGNAL [703] DDR SDRAM (PE0119)



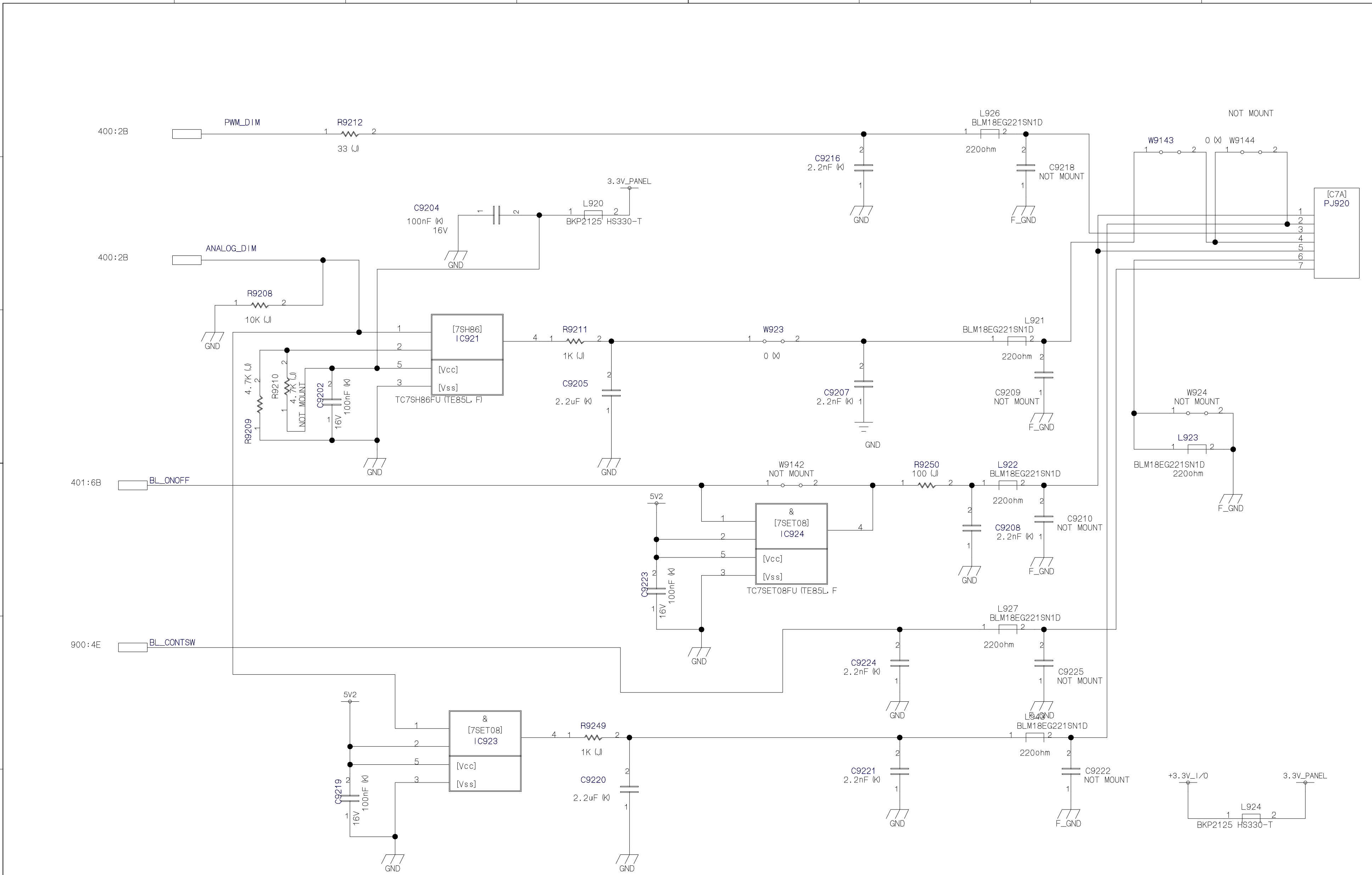
U03AS SIGNAL [704] COLTEZ POWER 3 (PE0119)



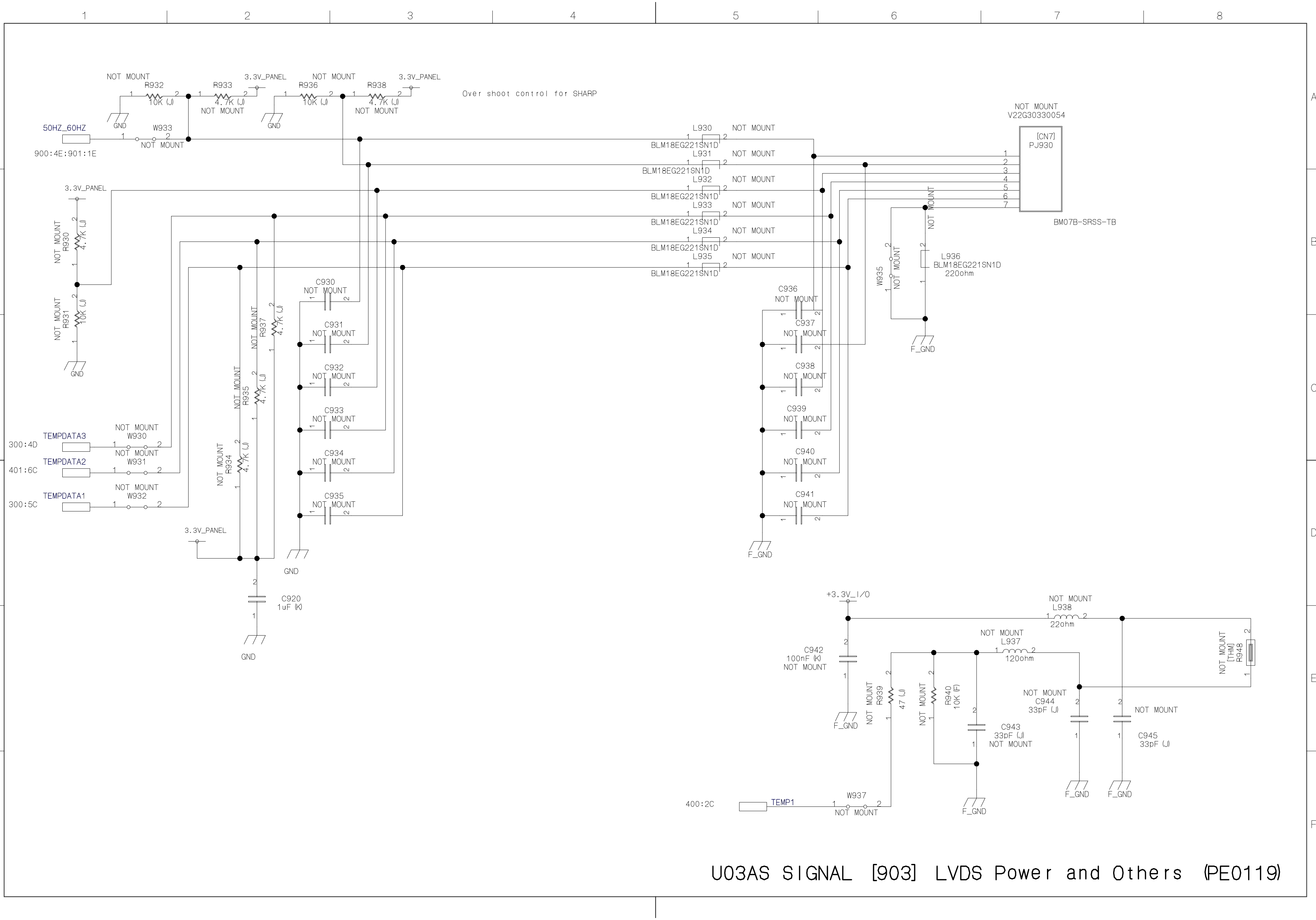
U03AS SIGNAL [900] CORTEZ LVDS_OUT (PE0119)



U03AS SIGNAL [901] LVDS CONNECTOR (PE0119)



U03AS SIGNAL [902] Power Connector and Dimming (PE0119)



U03AS SIGNAL [903] LVDS Power and Others (PE0119)

Accessory

	Location	Parts No.	Description
⚠	Y101	75001977	OWNERS MANUAL, ENGLISH
⚠	Y101E	75001979	OWNERS MANUAL, EURO
	Y110	75001978	QUICK REFERENCE MANUAL, SET UP GUIDE
	Y114	75003440	SCHEMATIC DIAGRAM
	Y130	75001967	REMOCON HAND UNIT, CT-865
	Y170	23845800	HOLDER, WIRE, NYLON66 D6.8

Cabinet

	Location	Parts No.	Description
	A201	75003430	FRONT BEZEL ASSY
	A315	75002888	C COVER ASSY
	A320	75003431	FRONT AV ASSY
	A340	75001920	PIECE, BUTTON 7 KEY
	A380	23717240	SCREW, BITTB3X10SZN
⚠	A401	75003429	BACK COVER
	A410	23717219	SCREW, PP3X8+SW+W SBN
	A412	23738169	SCREW, BITTB 3X8 B ECO
	A420	75002097	STAND ASSY
	A430	75001924	CLAMP
	A440	23738074	SCREW, PP 5X16 SW+W SBN

Miscellaneous

	Location	Parts No.	Description
⚠	B001	75002324	LCD PANEL, T260XW02 V5
	H001	23321543	TUNER, ENG37A13GF
	MZ01	75003427	WIRE HARNESS, LVDS, V90A00019300
⚠	P801	23372356	POWER CORD, UK-HK-PSB 10A, MP5004SC
⚠	P801	23372297	POWER CORD, CEE
	PJ22B	75002683	CONNECTOR, 1MM PITCH B TO B, 237702150K4
	PP01	23845859	HOLDER, WIRE, PVC-COAT, L=70MM
	PP08	23974994	BAND, KESSOKU
	W661	23351341	SPEAKER, SPK1410AW, 60X120 8-OHM 10W

Packing

	Location	Parts No.	Description
	A701	75003809	CARTON BOX
	A702A	75003432	PACKING, TOP PAD
	A702B	75003433	PACKING, BOTTOM PAD
	A703	23945190	BAG, PROTECTIVE

PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and
should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with ✱ mark is no longer available after the end of the production.

Abbreviations

Capacitors	CD	:	Ceramic Disk
Resistors	CF	:	Carbon film
	OMF	:	Oxide Metal Film
	PF	:	Plastic Film
	CC	:	Carbon Composition
	VR	:	Variable Resistor

EL : Electrolytic
MF : Metal Film
FR : Fusible Resistor

All CD and PF capacitors are ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

U01A POWER (PE0117)

	Location	Parts No.	Description
*	U01A	75003438	PC BOARD ASSY, PE0117A1, POWER
⚠	C801	76503507	CAPACITOR, PLASTIC FILM, AC275V 0.22UF K
⚠	C802	76503507	CAPACITOR, PLASTIC FILM, AC275V 0.22UF K
⚠	C803	76503169	CAPACITOR, PLASTIC FILM, 630V 0.1UF J
	C804	76214103	CAPACITOR, CERAMIC DISC, 500V B 0.01UF K
	C805	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	C810	76125035	CAPACITOR, ELECTROLYTIC, 450V 470UF M
⚠	C811	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
⚠	C812	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
	C813	76567334	CAPACITOR, PLASTIC FILM, 50V 0.33UF J
	C815	76567474	CAPACITOR, PLASTIC FILM, 50V 0.47UF J
	C816	76073090	CAPACITOR, ELECTROLYTIC, 50V 100UF M
	C817	76567224	CAPACITOR, PLASTIC FILM, 50V 0.22UF J
	C819	76214101	CAPACITOR, CERAMIC DISC, 500V B 100PF K
	C820	76567224	CAPACITOR, PLASTIC FILM, 50V 0.22UF J
	C821	76092343	CAPACITOR, CERAMIC DISC, 2KV 680PF K
	C822	76092344	CAPACITOR, CERAMIC DISC, 2KV 820PF K
	C823	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C824	76591102	CAPACITOR, PLASTIC FILM, 50V 1000PF J
	C825	76567105	CAPACITOR, PLASTIC FILM, 50V 1 UF J
	C826	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C827	76678229	CAPACITOR, ELECTROLYTIC, 200V 2.2UF M
	C883	76125039	CAPACITOR, ELECTROLYTIC, 35V 4700UF M
	C888	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C889	76073094	CAPACITOR, ELECTROLYTIC, 50V 1000UF M
	C890	76567334	CAPACITOR, PLASTIC FILM, 50V 0.33UF J
	CE04	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	CE05	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	CE07	76567474	CAPACITOR, PLASTIC FILM, 50V 0.47UF J
	CE09	76668339	CAPACITOR, ELECTROLYTIC, 35V 3.3UF M
	CE10	76125040	CAPACITOR, ELECTROLYTIC, 450V 120UF M
	CE12	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
⚠	CE13	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
⚠	CE14	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
	CE16	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE17	76092339	CAPACITOR, CERAMIC DISC, 2KV 330PF K
	CE23	76214471	CAPACITOR, CERAMIC DISC, 500V B 470PF K
	CE24	76285104	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
	CE29	76436331	CAPACITOR, CERAMIC DISC, 50V SL 330PF J

	CE43	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	CE82	76676470	CAPACITOR, ELECTROLYTIC, 100V 47UF M
	CE85	76073178	CAPACITOR, ELECTROLYTIC, 25V 3300UF M
	D801	23362200	DIODE, D5SB60, 7009F07
	D801B	23717240	SCREW, BITTB3X10SZN
	D805	23357850	DIODE, ZENER, MTZJ9.1A
	D806	23357893	DIODE, ZENER, MTZJ27C
	D809	23357905	DIODE, ZENER, MTZJ36C
	D810	23357893	DIODE, ZENER, MTZJ27C
	D811	23357511	DIODE, AG01A
	D812	23357852	DIODE, ZENER, MTZJ9.1C
	D813	23357512	DIODE, AL01Z
	D852	23357697	DIODE, 1SS133
	D883	75001877	DIODE, FMEN-220A
	D883B	23717240	SCREW, BITTB3X10SZN
	D884	75001877	DIODE, FMEN-220A
	D884B	23717240	SCREW, BITTB3X10SZN
	D885	23357408	DIODE, FMX-12S(023-108)
⚠	D899	75001869	VARISTOR, V1=470V 2500A/2
	DE01	23362204	DIODE, D3SB60, 7109F08
	DE02	23357511	DIODE, AG01A
	DE03	23357511	DIODE, AG01A
	DE05	23357104	DIODE, 1SS244
	DE06	23357366	DIODE, FR105-B5
	DE07	23357900	DIODE, ZENER, MTZJ33B
	DE09	23357842	DIODE, ZENER, MTZJ6.8B
	DE12	23357512	DIODE, AL01Z
	DE13	23357512	DIODE, AL01Z
	DE14	23357512	DIODE, AL01Z
	DE15	23357892	DIODE, ZENER, MTZJ27B
	DE16	23357880	DIODE, ZENER, MTZJ20B
	DE17	23357512	DIODE, AL01Z
	DE19	23357854	DIODE, ZENER, MTZJ10B
	DE72	23357366	DIODE, FR105-B5
	DE75	23357408	DIODE, FMX-12S(023-108)
	DE75B	23717240	SCREW, BITTB3X10SZN
⚠	F801	23144304	FUSE, CARTRIDGE 5.2X20, 250V 6.3A
	F801A	23165433	FUSE HOLDER, 5.2
	F801B	23165433	FUSE HOLDER, 5.2
⚠	F802	23144380	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 3.15A
⚠	FE01	23144380	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 3.15A

⚠	L801	23217847	TRANSFORMER, CHOKE, TPW2082AS
	L804	23103304	FERRITE CHOKE, TEM2011AA
	L805	23103304	FERRITE CHOKE, TEM2011AA
	L806	23248417	COIL, CHOKE, TLN3481AH
	L807	23248417	COIL, CHOKE, TLN3481AH
	L874	23103304	FERRITE CHOKE, TEM2011AA
	L875	23103304	FERRITE CHOKE, TEM2011AA
	L876	23103304	FERRITE CHOKE, TEM2011AA
	L878	23103304	FERRITE CHOKE, TEM2011AA
	L883	23248489	COIL, CHOKE, TLN3639AH
	LE06	23248417	COIL, CHOKE, TLN3481AH
	LE07	23248417	COIL, CHOKE, TLN3481AH
	LE11	23103304	FERRITE CHOKE, TEM2011AA
⚠	P801A	23713702	PLUG, 2P 11.88MM W VT
	P804	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P805	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P806B	23023385	PLUG, TWG-P15P-A1
	PG03	23165495	EARTH TERMINAL, MET31-0332
	PG04	23165495	EARTH TERMINAL, MET31-0332
	Q801	75003052	IC, STR-Z4567
⚠	Q826	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q851	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q852	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q883	23135091	IC, SE024N
	QE01	23135072	IC, STRW6765
	QE01B	23717240	SCREW, BITTB3X10SZN
⚠	QE26	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	QE83	23085587	IC, TA76431S
⚠	R801	76004716	RESISTOR, METAL GLAZE, 1/2W 2.2M OHM J
	R803	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	R805	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R806	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R807	76366393	RESISTOR, CARBON FILM, 1/6W 39K OHM J
	R808	76552101	RESISTOR, OXIDE METAL FILM, 1/2W 100 OHM J
	R809	76321689	RESISTOR, OXIDE METAL FILM, 1/2W 6.8 OHM J
	R812	76552471	RESISTOR, OXIDE METAL FILM, 1/2W 470 OHM J
	R813	76366220	RESISTOR, CARBON FILM, 1/6W 22 OHM J
	R814	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R815	76552100	RESISTOR, OXIDE METAL FILM, 1/2W 10 OHM J
	R816	76011331	RESISTOR, CHIP, 1/20W 330 OHM J
	R817	76377224	RESISTOR, CARBON FILM, 1W 220K OHM J

	R821	76322689	RESISTOR, OXIDE METAL FILM, 1W 6.8 OHM J
	R827	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R828	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R853	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R854	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R869	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R873	76871152	RESISTOR, CHIP, 1/8W 1.5K OHM J
	R874	76000445	CHIP JUMPER, 1608TYPE
	R890	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
⚠	R899	76004718	RESISTOR, METAL GLAZE, 1/2W 8.2M OHM J
	RE03	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE04	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE12	76552221	RESISTOR, OXIDE METAL FILM, 1/2W 220 OHM J
	RE13	76366273	RESISTOR, CARBON FILM, 1/6W 27K OHM J
	RE15	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	RE16	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	RE17	76366363	RESISTOR, CARBON FILM, 1/6W 36K OHM J
	RE18	76079010	RESISTOR, METAL FILM, 2W 0.47 OHM J
	RE19	76310829	RESISTOR, METAL FILM, 1/2W 8.2 OHM J
	RE23	76552152	RESISTOR, OXIDE METAL FILM, 1/2W 1.5K OHM J
	RE38	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE39	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J
	RE43	76011753	RESISTOR, CHIP, 1/20W 75K OHM J
	RE44	76000593	RESISTOR, CHIP, 1/16W 10K OHM F
	RE46	76000448	RESISTOR, CHIP, 1/16W 1.8K OHM F
	RE48	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
⚠	SR81	23146597	RELAY, DC5V 0.25W, DG5D1-O(M)-2
⚠	T801	23211886	COIL, LINE FILTER, TRF3253AH
⚠	T802	23211886	COIL, LINE FILTER, TRF3253AH
⚠	T862	75003049	TRANSFORMER, ST-3210
⚠	TE62	23217841	TRANSFORMER, CONVERTER, TPW3586AD
	Z889	23144195	PROTECTOR, 20PSERIES 125V 5A
	ZE72	23144185	PROTECTOR, 20PSERIES, 125V 1A
	ZE75	23144195	PROTECTOR, 20PSERIES 125V 5A

U01B LOW_B (PE0117)

	Location	Parts No.	Description
*	U01B	75003439	PC BOARD ASSY, PE0117A2, LOW_B
	C851	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	C852	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CE40	76073183	CAPACITOR, ELECTROLYTIC, 35V 220UF M
	CE42	76539104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	CE47	76092859	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CE49	76109223	CAPACITOR, CERAMIC CHIP, 25V B 0.022UF K
	CE51	76617023	CAPACITOR, ELECTROLYTIC, 16V 330UF M
	CE52	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE53	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE55	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE87	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CE90	76567334	CAPACITOR, PLASTIC FILM, 50V 0.33UF J
	CE91	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	CE92	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
	CE95	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE96	76073189	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	D861	23357869	DIODE, ZENER, MTZJ13C
	D862	23357869	DIODE, ZENER, MTZJ13C
	D863	23357703	DIODE, 1SS355
	DE48	23357848	DIODE, ZENER, MTZJ8.2B
	DE49	23357840	DIODE, ZENER, MTZJ6.2B
	DE50	23357706	DIODE, AK04
	DE51	23357842	DIODE, ZENER, MTZJ6.8B
	DE52	23357703	DIODE, 1SS355
	DE53	23357842	DIODE, ZENER, MTZJ6.8B
	DE54	23357703	DIODE, 1SS355
	DE55	23357748	DIODE, ZENER, MA8062-M
	DE56	23357800	DIODE, ZENER, MA8300-H
	DE90	23357866	DIODE, ZENER, MTZJ12C
	DE92	23357855	DIODE, ZENER, MTZJ10C
	DE93	23357862	DIODE, ZENER, MTZJ11B
	DE94	23357862	DIODE, ZENER, MTZJ11B
	GE50	23103304	FERRITE CHOKE, TEM2011AA
	GE51	76000445	CHIP JUMPER, 1608TYPE
	LE52	23289049	COIL, PEAKING, TRF4330AU
	LE53	23248399	COIL, CHOKE, TLN3283D
	LE73	23248417	COIL, CHOKE, TLN3481AH
	P803A	23713818	SOCKET, TWG-P19X-A1

	P806A	23713817	SOCKET, 127301115K2
	P810A	23713814	SOCKET, 127301109K2
	PG02	23165495	EARTH TERMINAL, MET31-0332
	Q853	23205443	TRANSISTOR, 2SA1162-Y(F)
	Q854	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q855	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q856	23205327	TRANSISTOR, RN1406(F)
	Q860	23205292	TRANSISTOR, 2SD2396
	Q860B	23717240	SCREW, BITTB3X10SZN
	QE40	75003051	IC, SI-8050W-TL
	QE47	75001881	IC, CE-1059
	QE48	23085338	IC, BD5245G-TR
	QE49	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE50	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE52	23205567	TRANSISTOR, RN2403(TE85L,F)
	QE53	23205330	TRANSISTOR, RN1403(F)
	QE64	23085415	IC, BD4746G
	QE71	75001881	IC, CE-1059
	QE74	23205330	TRANSISTOR, RN1403(F)
	QE82	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE90	23085423	IC, KIA7809API-U/P
	QE90B	23717240	SCREW, BITTB3X10SZN
	QE95	23205330	TRANSISTOR, RN1403(F)
	QE96	75001876	TRANSISTOR, TPC8111(TE12L,Q)
	QE97	23205569	TRANSISTOR, 2SC2713-GR(TE85L,F
	QE98	23205568	TRANSISTOR, 2SA1163-GR(TE85L,F
	R850	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R851	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R852	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R855	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R856	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R857	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R858	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R859	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R862	76871271	RESISTOR, CHIP, 1/8W 270 OHM J
	R863	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE24	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	RE25	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE26	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE27	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RE28	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J

	RE31	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE32	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE33	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE34	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RE51	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RE52	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J
	RE53	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE54	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE56	76000574	RESISTOR, CHIP, 1/16W 2.7K OHM F
	RE57	76000552	RESISTOR, CHIP, 1/16W 390 OHM F
	RE58	76190013	RESISTOR, CHIP, 1/16W 22K OHM F
	RE59	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	RE60	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE61	76190014	RESISTOR, CHIP, 1/16W 18K OHM F
	RE82	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE83	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE88	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RE91	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE93	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE95	76553122	RESISTOR, OXIDE METAL FILM, 1W 1.2K OHM J
	RE96	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE97	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE98	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	Z860	23144189	PROTECTOR, 20PSERIES 125V 2A

U02A AV_TERMINAL (PE0118)

	Location	Parts No.	Description
*	U02A	75003053	PC BOARD ASSY, PE0118A1, AV_TERMINAL
	C101	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C102	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C103	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C104	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C105	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C119	76073019	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C162	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	C164	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C190	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	C191	76092789	CAPACITOR, CERAMIC CHIP, 6.3V B 1UF K
	C415	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	C416	76092731	CAPACITOR, CERAMIC CHIP, 16V B 1UF K
	C417	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K
	C419	76109222	CAPACITOR, CERAMIC CHIP, 50V B 2200PF K
	C457	76092731	CAPACITOR, CERAMIC CHIP, 16V B 1UF K
	C459	76105220	CAPACITOR, CERAMIC CHIP, 50V CH 22PF J
	C460	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K
	C461	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	C462	76109222	CAPACITOR, CERAMIC CHIP, 50V B 2200PF K
	C463	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	C465	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	C645	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C660	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C661	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C662	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
	C663	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
	C668	76092515	CAPACITOR, CERAMIC CHIP, 16V F 4.7UF Z
	C669	76092515	CAPACITOR, CERAMIC CHIP, 16V F 4.7UF Z
	C670	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	C671	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	C672	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	C673	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	C674	76669010	CAPACITOR, ELECTROLYTIC, 50V 1UF M
	C675	76105221	CAPACITOR, CERAMIC CHIP, 50V CH 220PF J
	C676	76105221	CAPACITOR, CERAMIC CHIP, 50V CH 220PF J
	C677	76667470	CAPACITOR, ELECTROLYTIC, 25V 47UF M
	C678	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	C680	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M

	C681	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C682	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C683	76669339	CAPACITOR, ELECTROLYTIC, 50V 3.3UF M
	C684	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C685	76669010	CAPACITOR, ELECTROLYTIC, 50V 1UF M
	C686	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C687	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	C689	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C690	76073005	CAPACITOR, ELECTROLYTIC, 6.3V 1000UF M
	C691	76666470	CAPACITOR, ELECTORLYTIC, 16V 47UF M
	C692	76666470	CAPACITOR, ELECTORLYTIC, 16V 47UF M
	C695	76665471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C696	76665471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C4073	76105220	CAPACITOR, CERAMIC CHIP, 50V CH 22PF J
	C8001	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	CA01	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CA02	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CA06	76105100	CAPACITOR, CERAMIC CHIP, 50V CH 10PF D
	CA07	76105090	CAPACITOR, CERAMIC CHIP, 50V CH 9PF C
	CA19	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CA70	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CA71	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CA91	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CC01	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC02	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC03	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC04	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC05	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC06	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC07	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC08	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC32	76105100	CAPACITOR, CERAMIC CHIP, 50V CH 10PF D
	CG01	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG02	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CG03	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CG04	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K
	CG05	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG06	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG07	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG09	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG10	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M

	CG11	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG12	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG13	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG14	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG15	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG16	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG17	76073089	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CG20	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG21	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG22	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG23	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CG24	76669339	CAPACITOR, ELECTROLYTIC, 50V 3.3UF M
	CG25	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG26	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG27	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG28	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG29	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG30	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG31	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG32	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG33	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG34	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG35	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG36	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG37	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CG38	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CG39	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG40	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG41	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG42	76105050	CAPACITOR, CERAMIC CHIP, 50V CH 5PF C
	CG43	76105010	CAPACITOR, CERAMIC CHIP, 50V CK 1PF C
	CG44	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG45	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG46	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG50	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG51	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG52	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG53	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG54	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG55	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS01	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K

	CS02	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS03	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS04	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS05	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS06	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS07	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS08	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS09	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS10	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS11	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS12	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS13	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS14	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS15	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS16	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS17	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS18	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS19	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS20	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS21	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS22	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS23	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS24	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS25	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS26	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS27	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS28	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS31	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS32	76092611	CAPACITOR, CERAMIC CHIP, 6.3V B 2.2UF K
	CS33	76092515	CAPACITOR, CERAMIC CHIP, 16V F 4.7UF Z
	CS34	76092731	CAPACITOR, CERAMIC CHIP, 16V B 1UF K
	CS35	76092611	CAPACITOR, CERAMIC CHIP, 6.3V B 2.2UF K
	CS91	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CS92	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CV51	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV52	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV54	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV55	76203100	CAPACITOR, ELECTROLYTIC, 16V 10UF M
	CV56	76203100	CAPACITOR, ELECTROLYTIC, 16V 10UF M
	CV210	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV211	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K

	CV212	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	CV213	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CV221	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV222	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV223	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CV224	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	CV231	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV232	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV233	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CV234	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	D401	23362251	DIODE, SDS511(SOD-323)
	D608	23357765	DIODE, ZENER, MA8100-M
	D640	23362251	DIODE, SDS511(SOD-323)
	D641	23362251	DIODE, SDS511(SOD-323)
	D644	23362251	DIODE, SDS511(SOD-323)
	D645	23362251	DIODE, SDS511(SOD-323)
	D670	23362251	DIODE, SDS511(SOD-323)
	D671	23362251	DIODE, SDS511(SOD-323)
	D672	23362251	DIODE, SDS511(SOD-323)
	D673	23362251	DIODE, SDS511(SOD-323)
	D676	23362251	DIODE, SDS511(SOD-323)
	D677	23362251	DIODE, SDS511(SOD-323)
	D678	23362251	DIODE, SDS511(SOD-323)
	DA02	23362251	DIODE, SDS511(SOD-323)
	DA03	23357730	DIODE, ZENER, MA8033-L
	DA11	23362251	DIODE, SDS511(SOD-323)
	DA15	23357745	DIODE, ZENER, MA8056-M
	DA16	23357745	DIODE, ZENER, MA8056-M
	DA17	23357751	DIODE, ZENER, MA8068-M
	DA18	23357751	DIODE, ZENER, MA8068-M
	DE96	23357840	DIODE, ZENER, MTZJ6.2B
	DG01	23357742	DIODE, ZENER, MA8051-M
	DS03	23362251	DIODE, SDS511(SOD-323)
	DS04	23362251	DIODE, SDS511(SOD-323)
	DS05	23362251	DIODE, SDS511(SOD-323)
	DS06	23362251	DIODE, SDS511(SOD-323)
	DS10	23362251	DIODE, SDS511(SOD-323)
	DS11	23357757	DIODE, ZENER, MA8039-H
	DV02	23362140	DIODE, KDS160-RTK
	DV03	23362140	DIODE, KDS160-RTK
	DV04	23362140	DIODE, KDS160-RTK

	DV05	23362140	DIODE, KDS160-RTK
	DV06	23357762	DIODE, ZENER, MA8091-M
	GJ41	76000445	CHIP JUMPER, 1608TYPE
	GJ42	76000445	CHIP JUMPER, 1608TYPE
	GJ44	76000445	CHIP JUMPER, 1608TYPE
	GR31	76000445	CHIP JUMPER, 1608TYPE
	GR32	76000445	CHIP JUMPER, 1608TYPE
	GR33	76000445	CHIP JUMPER, 1608TYPE
	GR34	76000445	CHIP JUMPER, 1608TYPE
	GR35	76000445	CHIP JUMPER, 1608TYPE
	GR37	76000445	CHIP JUMPER, 1608TYPE
	GR603	76000445	CHIP JUMPER, 1608TYPE
	L101	23248385	COIL, CHOKE, TLN3278AA
	L102	76000445	CHIP JUMPER, 1608TYPE
	L103	76000445	CHIP JUMPER, 1608TYPE
	L104	76000445	CHIP JUMPER, 1608TYPE
	L191	23103233	INDUCTOR, BEAD, TEM2137AD
	LA90	76000445	CHIP JUMPER, 1608TYPE
	LA91	76000445	CHIP JUMPER, 1608TYPE
	LA92	76000445	CHIP JUMPER, 1608TYPE
	LA93	76000445	CHIP JUMPER, 1608TYPE
	LC01	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC02	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC05	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC06	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LG01	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LG02	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LV202	23103314	COIL, FILTER, TEM2028AH
	P601	23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
	PA01A	23713943	CONNECTOR, B11B-PH-K-S(LF)
	PH01	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PH02	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PJ22A	75001960	CONNECTOR, 1MM PITCH B TO B, 137701150W3
	PL212	23713938	CONNECTOR, B5B-PH-K-S(LF)
	PV01	75001872	PIN JACK, 10/10P ST
	PV90	23713710	SOCKET, D-SUB 15P, KRD-8622
	Q101	23205347	TRANSISTOR, KTC4075Y/P
	Q400	23205346	TRANSISTOR, KTA2014Y/P
	Q401	23205346	TRANSISTOR, KTA2014Y/P
	Q402	23205347	TRANSISTOR, KTC4075Y/P
	Q407	23205346	TRANSISTOR, KTA2014Y/P

	Q408	23205346	TRANSISTOR, KTA2014Y/P
	Q409	23205347	TRANSISTOR, KTC4075Y/P
	Q410	23205347	TRANSISTOR, KTC4075Y/P
	Q630	23009942	IC, LA4525-E
	Q660	23205347	TRANSISTOR, KTC4075Y/P
	Q661	23205347	TRANSISTOR, KTC4075Y/P
	Q662	23205222	TRANSISTOR, SRA2204S (SOT-23)
	Q663	23205347	TRANSISTOR, KTC4075Y/P
	Q670	23085826	IC, TA8246AHQ(5)
	Q670B	23717240	SCREW, BITTB3X10SZN
	Q671	23205424	TRANSISTOR, KTC2875B/P
	Q672	23205424	TRANSISTOR, KTC2875B/P
	Q673	23205357	TRANSISTOR, KTA1504S Y/P
	Q675	23205424	TRANSISTOR, KTC2875B/P
	Q676	23205424	TRANSISTOR, KTC2875B/P
	Q682	23205222	TRANSISTOR, SRA2204S (SOT-23)
	Q4100	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	Q4101	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	Q4102	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	Q4103	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	QA01	75001884	IC, T5CB5-6G52(F,JZ)
	QA03	75001878	IC, TC7SH126FU(TE85L,F)
	QA72	23205347	TRANSISTOR, KTC4075Y/P
	QA73	23205347	TRANSISTOR, KTC4075Y/P
	QG01	23009672	IC, MSP3410GQI-C12-100
	QG02	23085415	IC, BD4746G
	QG03	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QG04	23205358	TRANSISTOR, KTC3875S Y/P
	QG05	23085576	IC, OP AMP, BA4558F
	QG07	23085576	IC, OP AMP, BA4558F
	QS01	23009613	IC, CD4052BNSR
	QS02	23009614	IC, CD4053BNSR
	QS03	23009614	IC, CD4053BNSR
	QS04	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS05	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS06	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS07	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS08	23205347	TRANSISTOR, KTC4075Y/P
	QS09	23205347	TRANSISTOR, KTC4075Y/P
	QS10	23205347	TRANSISTOR, KTC4075Y/P
	QS11	23205347	TRANSISTOR, KTC4075Y/P

	QS12	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS13	23205424	TRANSISTOR, KTC2875B/P
	QS14	23205424	TRANSISTOR, KTC2875B/P
	QS15	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS16	23205424	TRANSISTOR, KTC2875B/P
	QS17	23205424	TRANSISTOR, KTC2875B/P
	QS18	23205347	TRANSISTOR, KTC4075Y/P
	QS24	23205424	TRANSISTOR, KTC2875B/P
	QS25	23205424	TRANSISTOR, KTC2875B/P
	QS26	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS27	23085576	IC, OP AMP, BA4558F
	QS30	23205424	TRANSISTOR, KTC2875B/P
	QS31	23205424	TRANSISTOR, KTC2875B/P
	QS32	23205424	TRANSISTOR, KTC2875B/P
	QS33	23205424	TRANSISTOR, KTC2875B/P
	QV16	23085823	IC, MM1508XNRE
	QV17	23085823	IC, MM1508XNRE
	QV18	23085823	IC, MM1508XNRE
	QV22	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	QV23	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	QV24	23205347	TRANSISTOR, KTC4075Y/P
	QV25	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV26	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV27	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV30	23205346	TRANSISTOR, KTA2014Y/P
	QV31	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV32	23205346	TRANSISTOR, KTA2014Y/P
	QV33	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV51	23205347	TRANSISTOR, KTC4075Y/P
	QV52	23205347	TRANSISTOR, KTC4075Y/P
	QV53	23205347	TRANSISTOR, KTC4075Y/P
	QV54	23205347	TRANSISTOR, KTC4075Y/P
	QV55	23205347	TRANSISTOR, KTC4075Y/P
	R103	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R104	76011822	RESISTOR, CHIP, 1/20W 8.2K OHM J
	R105	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	R114	76000445	CHIP JUMPER, 1608TYPE
	R125	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R167	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R169	76000445	CHIP JUMPER, 1608TYPE
	R170	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J

	R459	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R460	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R461	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	R462	76011474	RESISTOR, CHIP, 1/20W 470K OHM J
	R463	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R464	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R465	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R466	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	R601	76554470	RESISTOR, OXIDE METAL FILM, 2W 47 OHM J
	R634	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R635	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R636	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R640	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R641	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R662	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R666	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	R668	76871229	RESISTOR, CHIP, 1/8W 2.2 OHM J
	R669	76871229	RESISTOR, CHIP, 1/8W 2.2 OHM J
	R670	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R671	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R672	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	R673	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	R674	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	R678	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R679	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R680	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R681	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R682	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R683	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R684	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R685	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R686	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R687	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R688	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R689	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R690	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R691	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R692	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R4073	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R4074	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R4075	76011750	RESISTOR, CHIP, 1/20W 75 OHM J

	R4076	76011474	RESISTOR, CHIP, 1/20W 470K OHM J
	R4077	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R4078	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R4079	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R4080	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	R4082	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R4083	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R4084	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R4085	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R4100	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R4101	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4102	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R4103	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R4105	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R4106	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4107	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R4108	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4109	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R6601	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R6602	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R6603	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R6604	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA01	76011331	RESISTOR, CHIP, 1/20W 330 OHM J
	RA02	76011105	RESISTOR, CHIP, 1/20W 1M OHM J
	RA09	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA10	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA11	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA12	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA13	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA14	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA15	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA17	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA20	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA21	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA22	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA23	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA24	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA26	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA28	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA29	76011101	RESISTOR, CHIP, 1/20W 100 OHM J

	RA32	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA33	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA34	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA36	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA39	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA44	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA45	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA49	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA50	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA52	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA53	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA55	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RA56	76011331	RESISTOR, CHIP, 1/20W 330 OHM J
	RA57	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA58	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA59	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA60	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA61	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA62	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA63	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA64	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA66	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RA70	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RA81	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA82	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RA83	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA100	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA101	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA102	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA103	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA104	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA105	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA106	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA108	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA112	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA116	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA117	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA118	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA120	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA126	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RB33	76011103	RESISTOR, CHIP, 1/20W 10K OHM J

	RB57	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB58	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB59	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB60	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB61	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB62	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RC01	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC02	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC03	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC04	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC24	76011330	RESISTOR, CHIP, 1/20W 33 OHM J
	RG01	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG02	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG03	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG04	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG06	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG07	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG09	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG010	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG11	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG12	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG13	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG14	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG15	76011183	RESISTOR, CHIP, 1/20W 18K OHM J
	RG16	76011183	RESISTOR, CHIP, 1/20W 18K OHM J
	RG17	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RG18	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RG19	76011332	RESISTOR, CHIP, 1/20W 3.3K OHM J
	RG23	76011332	RESISTOR, CHIP, 1/20W 3.3K OHM J
	RG24	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
	RG25	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RG26	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG27	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG28	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG29	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG30	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG31	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG32	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG33	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG34	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RG35	76011101	RESISTOR, CHIP, 1/20W 100 OHM J

	RG36	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG37	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG38	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG40	76011183	RESISTOR, CHIP, 1/20W 18K OHM J
	RG41	76011183	RESISTOR, CHIP, 1/20W 18K OHM J
	RG42	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG43	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG44	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RG45	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RG46	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG47	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RR01	76871750	RESISTOR, CHIP, 1/8W 75 OHM J
	RR02	76871750	RESISTOR, CHIP, 1/8W 75 OHM J
	RR03	76871750	RESISTOR, CHIP, 1/8W 75 OHM J
	RR04	76011330	RESISTOR, CHIP, 1/20W 33 OHM J
	RR05	76011330	RESISTOR, CHIP, 1/20W 33 OHM J
	RR06	76011330	RESISTOR, CHIP, 1/20W 33 OHM J
	RR50	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RS01	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS02	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS03	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS04	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS05	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS06	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS07	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RS08	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RS09	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS10	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS11	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS12	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS13	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS14	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS15	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS16	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS17	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RS18	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS19	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS20	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS21	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RS22	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RS23	76011473	RESISTOR, CHIP, 1/20W 47K OHM J

	RS24	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RS25	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS26	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS27	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS28	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RS29	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	RS30	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RS31	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RS32	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	RS33	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RS34	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS35	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS36	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RS37	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS38	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS39	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS40	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RS41	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RS42	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS43	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RS44	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS45	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS46	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS47	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RS48	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	RS49	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RS50	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS51	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RS52	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	RS53	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS54	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RS56	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	RS57	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	RS58	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RS60	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS61	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS62	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RS63	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RS64	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	RS65	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	RS66	76011104	RESISTOR, CHIP, 1/20W 100K OHM J

	RS67	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RS68	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS69	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS71	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RS72	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RS73	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	RS74	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	RS75	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS76	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS77	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	RS78	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	RS79	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS80	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS81	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RS82	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RS83	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS84	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS85	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RS86	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RS88	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RS89	76011822	RESISTOR, CHIP, 1/20W 8.2K OHM J
	RS90	76011822	RESISTOR, CHIP, 1/20W 8.2K OHM J
	RS91	76011123	RESISTOR, CHIP, 1/20W 12K OHM J
	RS92	76011123	RESISTOR, CHIP, 1/20W 12K OHM J
	RS93	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS94	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RS95	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RS96	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RS97	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV01	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV02	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV03	76872151	RESISTOR, CHIP, 1/16W 150 OHM J
	RV04	76872151	RESISTOR, CHIP, 1/16W 150 OHM J
	RV05	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV06	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV11	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV13	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV25	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	RV26	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	RV27	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	RV51	76011101	RESISTOR, CHIP, 1/20W 100 OHM J

	RV52	76011391	RESISTOR, CHIP, 1/20W 390 OHM J
	RV54	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV55	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV56	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV57	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV58	76011391	RESISTOR, CHIP, 1/20W 390 OHM J
	RV59	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV60	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV61	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV63	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV64	76011391	RESISTOR, CHIP, 1/20W 390 OHM J
	RV65	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV66	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV67	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV69	76011391	RESISTOR, CHIP, 1/20W 390 OHM J
	RV76	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV78	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV79	76011391	RESISTOR, CHIP, 1/20W 390 OHM J
	RV80	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RV92	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RV93	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	RV94	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RV95	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	RV96	76000445	CHIP JUMPER, 1608TYPE
	RV97	76000445	CHIP JUMPER, 1608TYPE
	RV201	76000445	CHIP JUMPER, 1608TYPE
	RV215	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	RV216	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RV225	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	RV226	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RV227	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV228	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RV235	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	RV236	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RV237	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV238	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RV253	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RV254	76011432	RESISTOR, CHIP, 1/20W 4.3K OHM J
	RV255	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RV256	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J
	RV257	76011102	RESISTOR, CHIP, 1/20W 1K OHM J

	RV258	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV259	76011122	RESISTOR, CHIP, 1/20W 1.2K OHM J
	RV260	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV261	76000445	CHIP JUMPER, 1608TYPE
	RV262	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	XA01	23153586	CERAMIC RESONATOR, 8.0MHZ 40OHM, TCR1085AM
	XG01	75001870	RESONATOR, 18.432MHZ

U02B FRONT_AV (PE0118)

	Location	Parts No.	Description
*	U02B	75003054	PC BOARD ASSY, PE0118A2, FRONT_AV
	C604	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C605	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CC11	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC12	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	P661	23365444	EARPHONE JACK, D3.5
	PV60	23365275	PHONO JACK, 3P V-L-R, YKC21
	R696	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R697	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R698	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R699	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	RC11	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RC12	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RV10	76000445	CHIP JUMPER, 1608TYPE
	RV123	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV129	76011101	RESISTOR, CHIP, 1/20W 100 OHM J

U02C LED (PE0118)

	Location	Parts No.	Description
*	U02C	75003055	PC BOARD ASSY, PE0118A3, LED
	CB02	76202221	CAPACITOR, ELECTROLYTIC, 10V 220UF M
	CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CB05	76202221	CAPACITOR, ELECTROLYTIC, 10V 220UF M
	DB01	23358571	DIODE, LED, BT-H254N-31-SH
	DB04	23358605	DIODE, LED, SLR-56MC3FPQR
	DB20	23357406	DIODE, ZENER, UDZS5.6B
	DB22	23362251	DIODE, SDS511(SOD-323)
	DB23	23362251	DIODE, SDS511(SOD-323)
	KB01	75002236	IC, GP1UE261RKVF
	PA01B	23713948	CONNECTOR, S6B-PH-K-S(LF)
	RB08	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
	RB09	76011470	RESISTOR, CHIP, 1/20W 47 OHM J

U02D KEY (PE0118)

	Location	Parts No.	Description
*	U02D	75003056	PC BOARD ASSY, PE0118A4, KEY
	DA01	23362042	DIODE, ZENER, UDZS6.8B
	DA06	23362042	DIODE, ZENER, UDZS6.8B
	DA07	23362042	DIODE, ZENER, UDZS6.8B
	RA71	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
	RA72	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RA73	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA74	76000445	CHIP JUMPER, 1608TYPE
	RA77	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA78	76000445	CHIP JUMPER, 1608TYPE
	RA79	76000445	CHIP JUMPER, 1608TYPE
	SA01	23344505	SWITCH, PUSH 1C1P
	SA02	23344505	SWITCH, PUSH 1C1P
	SA03	23344505	SWITCH, PUSH 1C1P
	SA04	23344505	SWITCH, PUSH 1C1P
	SA05	23344505	SWITCH, PUSH 1C1P
	SA06	23344505	SWITCH, PUSH 1C1P
	SA07	23344505	SWITCH, PUSH 1C1P

U02E DB_DOWNLOAD (PE0118)

	Location	Parts No.	Description
*	U02E	75003057	PC BOARD ASSY, PE0118A5, DB_DOWNLOAD
	GR60	76000445	CHIP JUMPER, 1608TYPE
	PL05A	23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
	PL05B	23713776	PLUG, 3P 2.5MM W, S3B-EH

U03AS SIGNAL (PE0119)

	Location	Parts No.	Description
*	U03AS	75003789	PC BOARD ASSY, PE0119A1, SIGNAL
	C311	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C312	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C313	V03GD0000559	CHIP CERAMIC CAPACITOR (1608)
	C321	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C322	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C327	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C360	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C361	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C362	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C370	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C371	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C372	V03GD0000578	CHIP CERAMIC CAPACITOR (1608)
	C373	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C374	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C375	V03GD0000578	CHIP CERAMIC CAPACITOR (1608)
	C376	V03GD0000541	CHIP CERAMIC CAPACITOR (1608)
	C377	V03GD0000541	CHIP CERAMIC CAPACITOR (1608)
	C378	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C379	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C388	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C389	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C401	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C404	V03GD0000708	CHIP CERAMIC CAPACITOR (1608)
	C406	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C407	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C408	V03GD0000708	CHIP CERAMIC CAPACITOR (1608)
	C410	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C411	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C414	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C415	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C427	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C428	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C429	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C430	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	C431	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C432	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C433	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C434	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)

	C435	V03GD0000591	CHIP CERAMIC CAPACITOR (1608)
	C436	V03GD0000574	CHIP CERAMIC CAPACITOR (1608)
	C438	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C439	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C440	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C441	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C442	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C451	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C453	V03GD0000574	CHIP CERAMIC CAPACITOR (1608)
	C454	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C455	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C458	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C459	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C460	V03GD0000543	CHIP CERAMIC CAPACITOR (1608)
	C471	V03GD0000546	CHIP CERAMIC CAPACITOR (1608)
	C473	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C474	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C475	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C476	V03GD0000591	CHIP CERAMIC CAPACITOR (1608)
	C486	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C490	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C491	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C494	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	C495	V03GD0000585	CHIP CERAMIC CAPACITOR (1608)
	C496	V03GD0000585	CHIP CERAMIC CAPACITOR (1608)
	C730	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C731	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C732	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C733	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C734	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C735	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C736	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C737	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C773	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C774	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C775	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C779	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C780	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)

	C872	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C873	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C874	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C912	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C913	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C914	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C915	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C919	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C923	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C924	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C951	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C953	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C2000	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2001	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2002	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2003	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2004	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2005	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2006	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2007	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2008	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C2010	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2011	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2012	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2013	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2014	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2015	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2016	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2017	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2018	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2019	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3002	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)
	C3004	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)
	C3201	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3410	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3411	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3412	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3413	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
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	C3416	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3417	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3418	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3419	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3420	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3421	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3446	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C7900	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7901	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7902	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7903	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7913	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7914	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7915	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7916	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
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	C7921	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7922	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7924	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7925	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7946	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7947	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7948	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7949	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7950	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
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	C7962	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
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	C7973	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7976	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7981	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C7982	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7983	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7989	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7990	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7991	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7992	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9055	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9056	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9057	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
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	C9065	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
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	C9067	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9070	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9071	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9072	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9074	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9202	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9204	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9205	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C9207	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9208	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9216	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9219	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9220	V03GD0001128	CHIP CERAMIC CAPACITOR (1608)
	C9221	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9223	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9224	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	CN322	V22GD0001650	0.5MM PITCH W TO B CONNECTOR

	D201	V42GD0000208	ZENER DIODE
	D202	V42GD0000208	ZENER DIODE
	D203	V42GD0000208	ZENER DIODE
	D204	V42GD0000208	ZENER DIODE
	D205	V42GD0000208	ZENER DIODE
	D206	V42GD0000208	ZENER DIODE
	D207	V42GD0000208	ZENER DIODE
	D208	V42GD0000208	ZENER DIODE
	D209	V42GD0000208	ZENER DIODE
	D210	V42GD0000208	ZENER DIODE
	D211	V42GD0000208	ZENER DIODE
	D212	V42GD0000208	ZENER DIODE
	D213	V42GD0000208	ZENER DIODE
	D214	V42GD0000208	ZENER DIODE
	D215	V42GD0000208	ZENER DIODE
	D216	V42GD0000208	ZENER DIODE
	D224	V42GD0000208	ZENER DIODE
	D225	V42GD0000208	ZENER DIODE
	D400	V42GD0000219	DIODE
	D401	V42GD0000219	DIODE
	D402	V42GD0000219	DIODE
	D403	V42GD0000257	SCHOTTKY BARRIER DIODE
	D500	V42GD0000245	SCHOTTKY BARRIER DIODE
	FL310	V01GD0001702	CHIP JUMPER 1608TYPE
	FL412	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	FL870	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	FL902	V01GD0001702	CHIP JUMPER 1608TYPE
	IC301	V45GD0000462	2 INPUT AND GATE
	IC302	V45GD0000462	2 INPUT AND GATE
	IC310	V45GD0000549	EXCLUSIVE OR GATE
	IC360	V47GD0000571	AUDIO D/A CONVERTER
	IC371	V47GD0000998	DUAL AUDIO OP AMP
	IC403	V47GD0001109	BUCK CONVERTER
	IC404	V46GD0001475	16M(1MX16)BIT FLASH MEMORY
	IC410	V47GD0000702	LOW POWER-LOSS REGURATOR
	IC411	V47GD0000716	VOLTAGE REGULATOR
	IC413	V46GD0001233	128K(16KX8)BIT EEPROM
	IC420	V47GD0001110	STEP-DOWN CONVERTER
	IC705	V45GD0000483	DUAL BILATERAL SWITCH
	IC921	V45GD0000443	EXCLUSIVE OR GATE
	IC923	V45GD0000462	2 INPUT AND GATE

	IC924	V45GD0000462	2 INPUT AND GATE
	L344	V05GD0000502	CHIP INDUCTOR(3225)
	L430	V05GD0000598	CHIP POWER INDUCTOR
	L431	V05GD0000599	CHIP POWER INDUCTOR
	L922	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L923	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	N001	23961276	SOLDER, M705-GRN360-K2V C
	N002	23961260	SOLDER, M708E-3.0 (PB-FRE
	N003	23961257	SOLDER, M708E BAR (PB-FRE
	N004	23961293	SOLDER, POSTFLUX ES-1061S
	N005	23961263	SOLDER, -F M705ESC 0.6
	N006	23961265	SOLDER, -F M705ESC 1.0
	N007	23961267	SOLDER, -F M705ESC 1.6
	N008	23962411	ADHESIVE EP 3609 300G
	N009	23964124	SOLVENT #4520 IPA 15KG UN
	N010	23964899	SOLVENT CLEANER S-10 15K
	N011	23962432	ADHESIVE, SR-22530S 25G
	PB03A	V28A000163A1	PC BOARD SIGNAL
	PJ24	V22GD0000429	1.25MM PITCH BRIDGE CONNECTOR
	PJ200	V22GD0001538	2MM PITCH W TO B CONNECTOR
	PJ404	V22GD0001528	1MM PITCH B TO B CONNECTOR
	PJ920	V22GD0001451	2MM PITCH W TO B CONNECTOR
	Q324	V41GD0000236	NPN TRANSISTOR
	Q325	V41GD0000232	NPN TRANSISTOR
	Q400	V41GD0000236	NPN TRANSISTOR
	Q920	V41GD0000236	NPN TRANSISTOR
	Q921	V41GD0000236	NPN TRANSISTOR
	R301	V01GD0000924	CHIP RESISTOR (1608)
	R302	V01GD0001670	CHIP RESISTOR (1608)
	R303	V01GD0000894	CHIP RESISTOR (1608)
	R304	V01GD0000894	CHIP RESISTOR (1608)
	R305	V01GD0000894	CHIP RESISTOR (1608)
	R306	V01GD0000924	CHIP RESISTOR (1608)
	R307	V01GD0000924	CHIP RESISTOR (1608)
	R309	V01GD0000924	CHIP RESISTOR (1608)
	R310	V01GD0000914	CHIP RESISTOR (1608)
	R315	V01GD0000894	CHIP RESISTOR (1608)
	R316	V01GD0000907	CHIP RESISTOR (1608)
	R317	V01GD0000914	CHIP RESISTOR (1608)
	R320	V01GD0000896	CHIP RESISTOR (1608)
	R321	V01GD0000896	CHIP RESISTOR (1608)

	R322	V01GD0000896	CHIP RESISTOR (1608)
	R323	V01GD0000896	CHIP RESISTOR (1608)
	R324	V01GD0000896	CHIP RESISTOR (1608)
	R325	V01GD0000896	CHIP RESISTOR (1608)
	R326	V01GD0000896	CHIP RESISTOR (1608)
	R327	V01GD0000896	CHIP RESISTOR (1608)
	R328	V01GD0000896	CHIP RESISTOR (1608)
	R329	V01GD0000896	CHIP RESISTOR (1608)
	R380	V01GD0000924	CHIP RESISTOR (1608)
	R381	V01GD0000924	CHIP RESISTOR (1608)
	R400	V01GD0000915	CHIP RESISTOR (1608)
	R401	V01GD0000915	CHIP RESISTOR (1608)
	R405	V01GD0002069	CHIP RESISTOR (1608)
	R406	V01GD0002069	CHIP RESISTOR (1608)
	R409	V01GD0000893	CHIP RESISTOR (1608)
	R410	V01GD0000893	CHIP RESISTOR (1608)
	R411	V01GD0002069	CHIP RESISTOR (1608)
	R412	V01GD0000924	CHIP RESISTOR (1608)
	R413	V01GD0000924	CHIP RESISTOR (1608)
	R414	V01GD0000894	CHIP RESISTOR (1608)
	R415	V01GD0000894	CHIP RESISTOR (1608)
	R416	V01GD0002069	CHIP RESISTOR (1608)
	R417	V01GD0002069	CHIP RESISTOR (1608)
	R418	V01GD0002069	CHIP RESISTOR (1608)
	R420	V01GD0002069	CHIP RESISTOR (1608)
	R421	V01GD0002069	CHIP RESISTOR (1608)
	R422	V01GD0000923	CHIP RESISTOR (1608)
	R423	V01GD0002069	CHIP RESISTOR (1608)
	R431	V01GD0000894	CHIP RESISTOR (1608)
	R432	V01GD0002075	CHIP RESISTOR (1608)
	R433	V01GD0001702	CHIP JUMPER 1608TYPE
	R434	V01GD0000895	CHIP RESISTOR (1608)
	R440	V01GD0000914	CHIP RESISTOR (1608)
	R441	V01GD0002069	CHIP RESISTOR (1608)
	R442	V01GD0002069	CHIP RESISTOR (1608)
	R447	V01GD0000894	CHIP RESISTOR (1608)
	R448	V01GD0000894	CHIP RESISTOR (1608)
	R449	V01GD0000914	CHIP RESISTOR (1608)
	R450	V01GD0001588	CHIP RESISTOR (1608)
	R451	V01GD0002209	CHIP JUMPER 1608TYPE
	R452	V01GD0000894	CHIP RESISTOR (1608)

	R453	V01GD0000894	CHIP RESISTOR (1608)
	R454	V01GD0000894	CHIP RESISTOR (1608)
	R455	V01GD0001006	CHIP RESISTOR (1608)
	R456	V01GD0000894	CHIP RESISTOR (1608)
	R457	V01GD0001006	CHIP RESISTOR (1608)
	R458	V01GD0000903	CHIP RESISTOR (1608)
	R464	V01GD0000908	CHIP RESISTOR (1608)
	R465	V01GD0000894	CHIP RESISTOR (1608)
	R466	V01GD0001029	CHIP RESISTOR (1608)
	R467	V01GD0001115	CHIP RESISTOR (1608)
	R468	V01GD0001004	CHIP RESISTOR (1608)
	R469	V01GD0001030	CHIP RESISTOR (1608)
	R470	V01GD0000908	CHIP RESISTOR (1608)
	R471	V01GD0000908	CHIP RESISTOR (1608)
	R472	V01GD0002069	CHIP RESISTOR (1608)
	R474	V01GD0000924	CHIP RESISTOR (1608)
	R475	V01GD0002069	CHIP RESISTOR (1608)
	R476	V01GD0002069	CHIP RESISTOR (1608)
	R477	V01GD0002069	CHIP RESISTOR (1608)
	R478	V01GD0002069	CHIP RESISTOR (1608)
	R479	V01GD0000893	CHIP RESISTOR (1608)
	R480	V01GD0000893	CHIP RESISTOR (1608)
	R482	V01GD0000924	CHIP RESISTOR (1608)
	R483	V01GD0000895	CHIP RESISTOR (1608)
	R484	V01GD0002069	CHIP RESISTOR (1608)
	R485	V01GD0002069	CHIP RESISTOR (1608)
	R486	V01GD0002069	CHIP RESISTOR (1608)
	R489	V01GD0002069	CHIP RESISTOR (1608)
	R490	V01GD0000916	CHIP RESISTOR (1608)
	R491	V01GD0000916	CHIP RESISTOR (1608)
	R707	V01GD0000914	CHIP RESISTOR (1608)
	R717	V01GD0000914	CHIP RESISTOR (1608)
	R718	V01GD0001702	CHIP JUMPER 1608TYPE
	R719	V01GD0001702	CHIP JUMPER 1608TYPE
	R730	V01GD0000924	CHIP RESISTOR (1608)
	R731	V01GD0000924	CHIP RESISTOR (1608)
	R732	V01GD0001093	CHIP RESISTOR (1608)
	R733	V01GD0001093	CHIP RESISTOR (1608)
	R734	V01GD0000914	CHIP RESISTOR (1608)
	R735	V01GD0000914	CHIP RESISTOR (1608)
	R736	V01GD0000914	CHIP RESISTOR (1608)

	R745	V01GD0001006	CHIP RESISTOR (1608)
	R746	V01GD0001006	CHIP RESISTOR (1608)
	R748	V01GD0000903	CHIP RESISTOR (1608)
	R913	V01GD0001667	CHIP RESISTOR (1608)
	R914	V01GD0001667	CHIP RESISTOR (1608)
	R915	V01GD0001702	CHIP JUMPER 1608TYPE
	R917	V01GD0001667	CHIP RESISTOR (1608)
	R920	V01GD0002075	CHIP RESISTOR (1608)
	R921	V01GD0002075	CHIP RESISTOR (1608)
	R922	V01GD0002075	CHIP RESISTOR (1608)
	R2000	V01GD0000926	CHIP RESISTOR (1608)
	R2001	V01GD0000926	CHIP RESISTOR (1608)
	R2002	V01GD0000926	CHIP RESISTOR (1608)
	R2003	V01GD0000926	CHIP RESISTOR (1608)
	R2005	V01GD0000926	CHIP RESISTOR (1608)
	R2006	V01GD0000926	CHIP RESISTOR (1608)
	R2007	V01GD0000926	CHIP RESISTOR (1608)
	R2010	V01GD0000914	CHIP RESISTOR (1608)
	R2011	V01GD0000914	CHIP RESISTOR (1608)
	R2012	V01GD0000894	CHIP RESISTOR (1608)
	R2013	V01GD0000894	CHIP RESISTOR (1608)
	R2016	V01GD0000926	CHIP RESISTOR (1608)
	R2017	V01GD0000926	CHIP RESISTOR (1608)
	R2018	V01GD0000926	CHIP RESISTOR (1608)
	R2020	V01GD0000926	CHIP RESISTOR (1608)
	R2021	V01GD0000926	CHIP RESISTOR (1608)
	R2022	V01GD0000926	CHIP RESISTOR (1608)
	R2023	V01GD0000926	CHIP RESISTOR (1608)
	R2024	V01GD0000926	CHIP RESISTOR (1608)
	R2025	V01GD0000926	CHIP RESISTOR (1608)
	R2026	V01GD0000926	CHIP RESISTOR (1608)
	R3020	V01GD0001041	CHIP RESISTOR (1608)
	R3201	V01GD0000924	CHIP RESISTOR (1608)
	R3202	V01GD0000924	CHIP RESISTOR (1608)
	R3210	V01GD0000894	CHIP RESISTOR (1608)
	R3216	V01GD0002075	CHIP RESISTOR (1608)
	R3217	V01GD0002075	CHIP RESISTOR (1608)
	R3220	V01GD0001027	CHIP RESISTOR (1608)
	R3221	V01GD0001004	CHIP RESISTOR (1608)
	R3230	V01GD0002075	CHIP RESISTOR (1608)
	R3231	V01GD0002075	CHIP RESISTOR (1608)

	R3232	V01GD0000895	CHIP RESISTOR (1608)
	R3233	V01GD0000895	CHIP RESISTOR (1608)
	R3242	V01GD0000894	CHIP RESISTOR (1608)
	R3244	V01GD0000894	CHIP RESISTOR (1608)
	R3250	V01GD0000915	CHIP RESISTOR (1608)
	R3251	V01GD0000895	CHIP RESISTOR (1608)
	R3252	V01GD0000909	CHIP RESISTOR (1608)
	R3253	V01GD0002069	CHIP RESISTOR (1608)
	R3254	V01GD0000894	CHIP RESISTOR (1608)
	R3255	V01GD0000894	CHIP RESISTOR (1608)
	R3608	V01GD0000895	CHIP RESISTOR (1608)
	R3609	V01GD0000895	CHIP RESISTOR (1608)
	R3610	V01GD0000895	CHIP RESISTOR (1608)
	R3700	V01GD0001012	CHIP RESISTOR (1608)
	R3701	V01GD0001012	CHIP RESISTOR (1608)
	R3702	V01GD0000909	CHIP RESISTOR (1608)
	R3703	V01GD0001107	CHIP RESISTOR (1608)
	R3704	V01GD0000940	CHIP RESISTOR (1608)
	R3705	V01GD0000940	CHIP RESISTOR (1608)
	R3706	V01GD0000909	CHIP RESISTOR (1608)
	R3707	V01GD0000895	CHIP RESISTOR (1608)
	R3708	V01GD0000895	CHIP RESISTOR (1608)
	R3709	V01GD0001107	CHIP RESISTOR (1608)
	R3710	V01GD0002069	CHIP RESISTOR (1608)
	R3711	V01GD0002069	CHIP RESISTOR (1608)
	R4000	V01GD0000894	CHIP RESISTOR (1608)
	R4005	V01GD0000894	CHIP RESISTOR (1608)
	R4006	V01GD0000894	CHIP RESISTOR (1608)
	R4007	V01GD0000894	CHIP RESISTOR (1608)
	R4008	V01GD0000894	CHIP RESISTOR (1608)
	R4009	V01GD0000894	CHIP RESISTOR (1608)
	R4010	V01GD0000894	CHIP RESISTOR (1608)
	R4011	V01GD0000894	CHIP RESISTOR (1608)
	R4012	V01GD0000894	CHIP RESISTOR (1608)
	R4013	V01GD0000894	CHIP RESISTOR (1608)
	R4014	V01GD0000894	CHIP RESISTOR (1608)
	R4018	V01GD0000894	CHIP RESISTOR (1608)
	R4019	V01GD0000894	CHIP RESISTOR (1608)
	R4132	V01GD0000894	CHIP RESISTOR (1608)
	R4133	V01GD0000894	CHIP RESISTOR (1608)
	R4134	V01GD0000894	CHIP RESISTOR (1608)

	R4241	V01GD0002075	CHIP RESISTOR (1608)
	R4251	V01GD0002075	CHIP RESISTOR (1608)
	R4261	V01GD0002075	CHIP RESISTOR (1608)
	R9208	V01GD0000895	CHIP RESISTOR (1608)
	R9209	V01GD0001667	CHIP RESISTOR (1608)
	R9211	V01GD0000894	CHIP RESISTOR (1608)
	R9212	V01GD0000914	CHIP RESISTOR (1608)
	R9242	V01GD0000894	CHIP RESISTOR (1608)
	R9243	V01GD0000894	CHIP RESISTOR (1608)
	R9246	V01GD0000894	CHIP RESISTOR (1608)
	R9249	V01GD0000894	CHIP RESISTOR (1608)
	R9250	V01GD0002069	CHIP RESISTOR (1608)
	RM321	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM322	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM331	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM400	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM401	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM402	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM403	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM404	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM405	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM406	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM407	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM408	V01GD0001726	CHIP NETWORK RESISTOR (1005X4)
	RM409	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM410	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM700	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM701	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM702	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM703	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM707	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
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	RM710	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM711	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM712	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM713	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	W203	V01GD0001702	CHIP JUMPER 1608TYPE
	W219	V01GD0001667	CHIP RESISTOR (1608)
	W230	V01GD0001702	CHIP JUMPER 1608TYPE
	W231	V01GD0001702	CHIP JUMPER 1608TYPE

	W232	V01GD0001702	CHIP JUMPER 1608TYPE
	W233	V01GD0001702	CHIP JUMPER 1608TYPE
	W320	V01GD0001702	CHIP JUMPER 1608TYPE
	W400	V01GD0001702	CHIP JUMPER 1608TYPE
	W402	V01GD0001702	CHIP JUMPER 1608TYPE
	W403	V01GD0001702	CHIP JUMPER 1608TYPE
	W406	V01GD0001702	CHIP JUMPER 1608TYPE
	W409	V01GD0001702	CHIP JUMPER 1608TYPE
	W410	V01GD0001702	CHIP JUMPER 1608TYPE
	W411	V01GD0001702	CHIP JUMPER 1608TYPE
	W923	V01GD0001702	CHIP JUMPER 1608TYPE
	W9000	V01GD0001706	CHIP JUMPER 2012TYPE
	W9001	V01GD0001706	CHIP JUMPER 2012TYPE
	W9002	V01GD0001706	CHIP JUMPER 2012TYPE
	W9003	V01GD0001706	CHIP JUMPER 2012TYPE
	W9102	V01GD0000929	CHIP RESISTOR (1608)
	W9103	V01GD0000929	CHIP RESISTOR (1608)
	W9104	V01GD0000929	CHIP RESISTOR (1608)
	W9105	V01GD0000929	CHIP RESISTOR (1608)
	W9106	V01GD0000929	CHIP RESISTOR (1608)
	W9107	V01GD0000929	CHIP RESISTOR (1608)
	W9108	V01GD0000929	CHIP RESISTOR (1608)
	W9109	V01GD0000929	CHIP RESISTOR (1608)
	W9110	V01GD0000929	CHIP RESISTOR (1608)
	W9111	V01GD0000929	CHIP RESISTOR (1608)
	W9112	V01GD0001702	CHIP JUMPER 1608TYPE
	W9114	V01GD0001702	CHIP JUMPER 1608TYPE
	W9115	V01GD0001702	CHIP JUMPER 1608TYPE
	W9121	V01GD0001702	CHIP JUMPER 1608TYPE
	W9122	V01GD0001702	CHIP JUMPER 1608TYPE
	W9123	V01GD0001702	CHIP JUMPER 1608TYPE
	W9124	V01GD0001702	CHIP JUMPER 1608TYPE
	W9125	V01GD0001702	CHIP JUMPER 1608TYPE
	W9126	V01GD0001702	CHIP JUMPER 1608TYPE
	W9127	V01GD0001702	CHIP JUMPER 1608TYPE
	W9128	V01GD0001702	CHIP JUMPER 1608TYPE
	W9130	V01GD0001702	CHIP JUMPER 1608TYPE
	W9131	V01GD0001702	CHIP JUMPER 1608TYPE
	W9132	V01GD0001702	CHIP JUMPER 1608TYPE
	W9133	V01GD0001702	CHIP JUMPER 1608TYPE
	W9134	V01GD0001702	CHIP JUMPER 1608TYPE

	W9143	V01GD0001702	CHIP JUMPER 1608TYPE
	W9160	V01GD0001702	CHIP JUMPER 1608TYPE
	W9998	V01GD0001702	CHIP JUMPER 1608TYPE
	X700	V10GD0000236	CHIP CRYSTAL RESONATOR