Harman Kardon Service Manual

AVR 265/230

7.1 CHANNEL A/V RECEIVER

CONTENTS

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ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge build-up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical change sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together or your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES devices.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing.

Components identified with the IEC symbol ⚠ in the parts list are special significance to safety. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before retuming the product to the customer.

ENGLISH

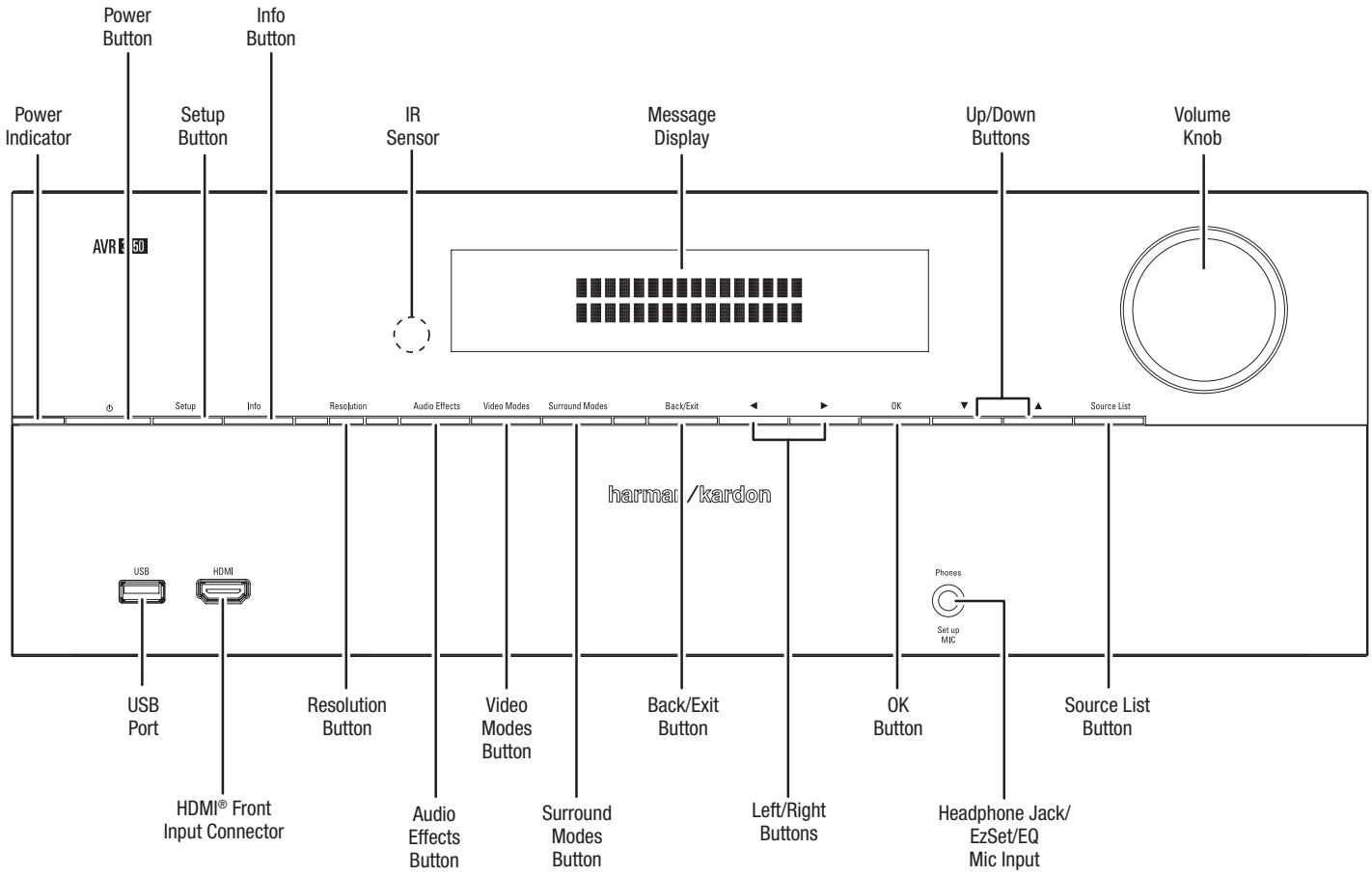
AVR 3650, AVR 365
AVR 2650, AVR 265

Audio/video receiver

Owner's Manual

harman/kardon®
by HARMAN

Front-Panel Controls



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ENGLISH

Front-Panel Controls, continued

Power Indicator: This LED has three possible modes:

- LED is off: Indicates that the AVR is unplugged or the rear-panel Main Power switch is off.
- LED glows amber: Indicates that the AVR is in the Standby mode.
- LED glows white: Indicates that the AVR is turned on.

IMPORTANT NOTE: If the PROTECT message ever appears on the AVR's front-panel message display, turn off the AVR and unplug it from the AC outlet. Check all speaker wires for a possible short-circuit (the "+" and "–" conductors touching each other or both touching the same piece of metal). If a short-circuit is not found, bring the unit to an authorized Harman Kardon service center for inspection and repair before using it again.

Power button: Press this button to turn the receiver on or to place it in the Standby mode.

Setup button: Press this button to access the AVR's main menu.

Info button: Press this button to access the AVR's Source submenu, which contains the settings for the source currently playing. Use the Up/Down buttons to scroll through the different settings.

Message display: Various messages appear in this two-line display in response to commands and changes in the incoming signal. In normal operation, the current source name appears on the upper line, while the surround mode is displayed on the lower line. When the on-screen display menu system (OSD) is in use, the current menu settings appear.

IR sensor: This sensor receives infrared (IR) commands from the remote control. It is important to ensure that the sensor is not blocked. **AVR 3650/AVR 365 only:** If covering the IR sensor is unavoidable (such as when the receiver is installed inside of a cabinet), connect an optional infrared receiver to the Remote IR In connector on the AVR's rear panel.

Up/Down buttons: Use these buttons to navigate the AVR's menus.

Volume knob: Turn this knob to raise or lower the volume.

USB port: You can use this port to perform software upgrades that may be offered in the future. Do not connect a storage device, peripheral product or a PC here, unless you are instructed to do so as part of an upgrade procedure.

HDMI (High-Definition Multimedia Interface®) Front Input connector: Connect an HDMI-capable source component that will be used only temporarily, such as a camcorder or game console, here.

Resolution button: Press this button to access the AVR's video output resolution setting: 480i, 480p, 720p, 1080i, 1080p or 1080p/24Hz. Use the Up/Down and OK buttons to change the setting.

IMPORTANT NOTE: If you set the AVR's video output resolution higher than the capabilities of the actual connection between the AVR and your TV or video display, you will not see a picture. If you are using the composite video connection from the AVR to your TV (see *Connect Your TV or Video Display*, on page 17), press the Resolution button and use the Up/Down and OK buttons to change the resolution to 480i.

Audio Effects button: Press this button to access the Audio Effects submenu, which allows you to adjust the AVR's tone controls and other audio controls. See *Set Up Your Sources*, on page 26, for more information.

Video Modes button: Press this button for direct access to the Video Modes submenu, which contains settings you can use to improve the video picture. Use the OK button to scroll through the different modes, and use the Up/Down and Left/Right buttons to make adjustments within each mode. See *Set Up Your Sources*, on page 26, for more information.

Surround Modes button: Press this button to select a listening mode. The Surround Modes menu will appear on screen, and the menu line will appear in the front-panel display. Use the Up/Down buttons to change the surround-mode category and the Left/Right buttons to change the surround mode for that category. See *Set Up Your Sources*, on page 26, for more information.

Back/Exit button: Press this button to return to the previous menu or to exit the menu system.

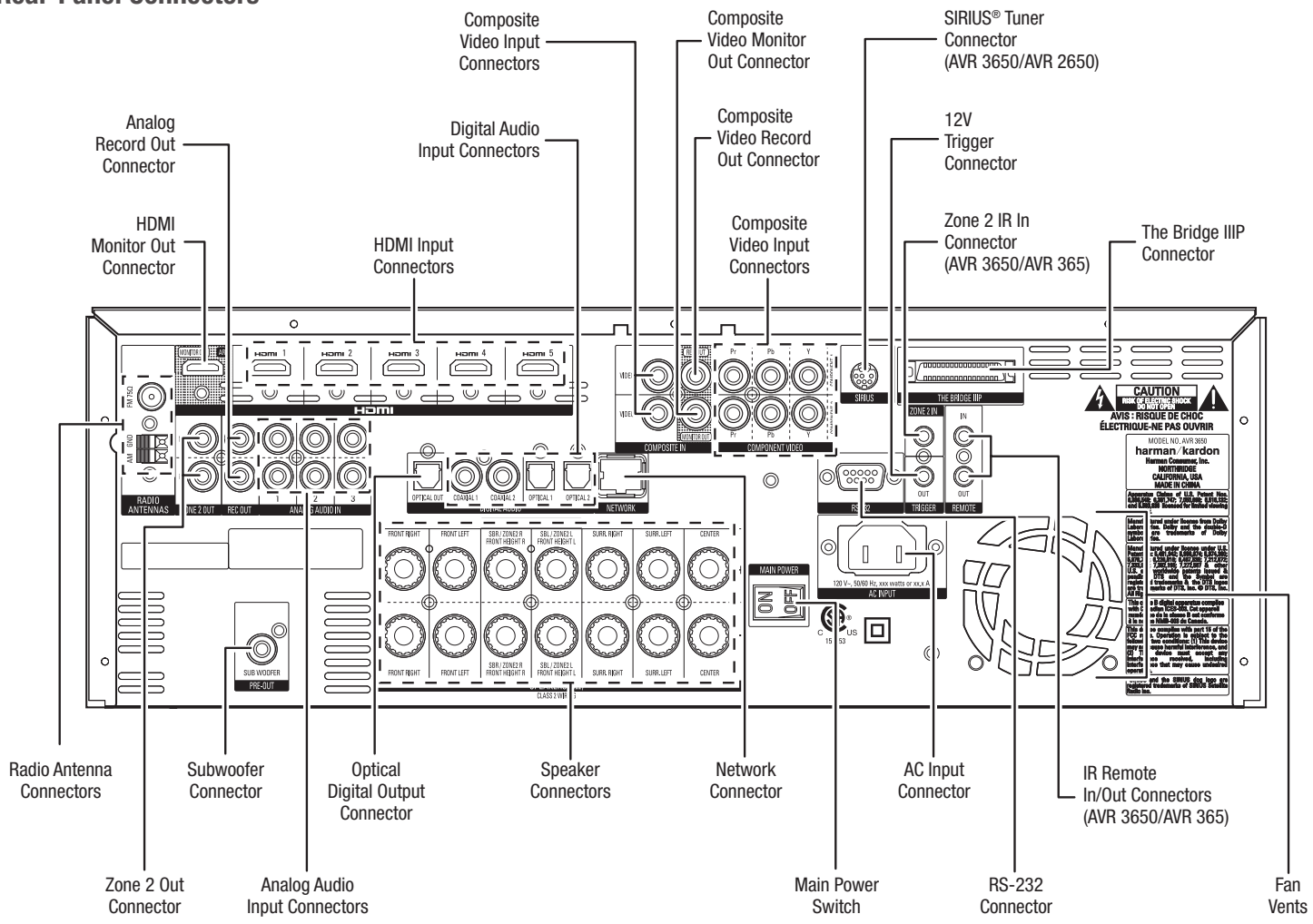
Left/Right buttons: Use these buttons to navigate the AVR's menus.

OK button: Press this button to select the currently highlighted item.

Headphone jack/EzSet/EQ Mic input: Connect a 1/4" stereo headphone plug to this jack for private listening. This jack is also used to connect the supplied microphone for the EzSet/EQ procedure described in *Configure the AVR For Your Speakers*, on page 25.

Source List button: Press this button to select a source device to watch/listen to. Use the Up/Down buttons to scroll through the source-device list, and press the OK button to select the source being displayed.

Rear-Panel Connectors



Rear-Panel Connectors (AVR 3650 shown)

Analog Record Out connector: Connect this analog audio output to the analog audio input of a recording device. A signal is available at this output whenever an analog audio source is playing.

HDMI Monitor Out connector: If your TV has an HDMI connector, use an HDMI cable (not included) to connect it to the AVR's HDMI Monitor Out connector. The AVR will automatically transcode component and composite video input signals to the HDMI format (upscaling to as high as 1080p), so you do not need to make any other connections to your TV from the AVR or from any of your video source devices.

Notes on using the HDMI Monitor Out connector:

- When connecting a DVI-equipped display to the HDMI Monitor Out connector, use an HDMI-to-DVI adapter and make a separate audio connection.
- Make sure the HDMI-equipped display is HDCP (High-bandwidth Digital Content Protection)-compliant. If it isn't, do not connect it via an HDMI connection; use an analog video connection instead and make a separate audio connection.

HDMI Input connectors: An HDMI connection transmits digital audio and video signals between devices. If your source devices have HDMI connectors, using them will provide the best possible video and audio performance quality. Since the HDMI cable carries both digital video and digital audio signals, you do not have to make any additional audio connections for devices you connect via the HDMI connection. See *Connect Your Audio and Video Source Devices*, on page 18, for more information.

Composite Video Input connectors: Use composite video connectors for video source devices that don't have HDMI or component video connectors. You will also need to make an audio connection from the source device to the AVR. See *Connect Your Audio and Video Source Devices*, on page 18, for more information.

Digital Audio Input connectors: If your non-HDMI source devices have digital outputs, connect them to the AVR's digital audio connectors. NOTE: Make only one type of digital connection (HDMI, optical or coaxial) from each device. See *Connect Your Audio and Video Source Devices*, on page 18, for more information.

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Rear-Panel Connectors, continued

Composite Video Monitor Out connector: If your TV or video display does not have an HDMI connector, use a composite video cable (not included) to connect the AVR's Composite Video Monitor Out connector to your TV's composite video input. **NOTE:** The HDMI connection to your TV is preferred. If you use the composite video connection to your TV, you will not be able to view the AVR's on-screen menus.

Composite Video Record Out connector: Connect an analog video recorder's video input connector to the AVR's Composite Video Rec Out connector. You can record any composite video input signal. **NOTE:** To record the audio and video from the source device, connect the AVR's Analog Record Output connectors to the analog video recorder's audio inputs.

Component Video Input connectors: If any of your video source devices have component video connectors (and do not have HDMI connectors), using the component video connectors will provide superior video performance. You will also need to make an audio connection from the device to the receiver. See *Connect Your Audio and Video Source Devices*, on page 18, for more information.

SIRIUS® Tuner connector: Connect a SIRIUSConnect™ satellite radio tuner module here. (Not included. Available at www.sirius.com.) See *Connect Your Audio and Video Source Devices*, on page 18, for more information.

12V Trigger connector: This connector provides 12V DC whenever the AVR is on. It can be used to turn on and off other devices such as a powered subwoofer.

Zone 2 IR Input connector (AVR 3650/AVR 365 only): Connect a remote IR receiver located in Zone 2 of a multizone system to this jack to control the AVR (and any source devices connected to the Remote IR Output connector) from the remote zone.

The Bridge IIIP connector: Connect an optional Harman Kardon The Bridge IIIP docking station to this input. Insert the plug until it snaps into place in the connector. **IMPORTANT:** Connect The Bridge IIIP only with the AVR's power turned off.

Radio Antenna connectors: Connect the included AM and FM antennas to their respective terminals for radio reception.

Zone 2 Out connectors: Connect these jacks to an external amplifier to power the speakers in the remote zone of a multizone system.

Subwoofer connector: Connect this jack to a powered subwoofer with a line-level input. See *Connect Your Subwoofer*, on page 17, for more information.

Analog Audio Input connectors: Use the AVR's Analog Audio Input connectors for source devices that don't have HDMI or digital audio connectors. See *Connect Your Audio and Video Source Devices*, on page 18, for more information.

Optical Digital Output connector: Connect a digital audio recorder's optical digital input to the AVR's Optical Digital Output connector. You can record both coaxial and optical digital audio signals.

Speaker connectors: Use two-conductor speaker wire to connect each set of terminals to the correct speaker. See *Connect Your Speakers*, on page 17, for more information.

NOTE: The speaker connectors, also called Assigned Amp speaker connectors- are used for the surround back channels in a 7.1- channel home theater, or you can reassign them to a remote room for multizone operation or to front height channels for Dolby Pro Logic® IIz operation. See *Place Your Speakers*, on page 13, for more information.

Network connector: Use a Cat. 5 or Cat. 5E cable (not supplied) to connect the AVR's Network connector to your home network to enjoy Internet radio and content from DLNA®-compatible devices that are connected to the network. See *Connect to Your Home Network*, on page 20, for more information.

Main Power switch: This mechanical switch turns the AVR's power supply on or off. It is usually left on, and it cannot be turned on or off using the remote control.

AC Input connector: After you have made all other connections, plug the supplied AC power cord into this receptacle and into an unswitched wall outlet.

RS-232 connector: This connector is used to connect to external control hardware. Consult a certified professional installer for more information.

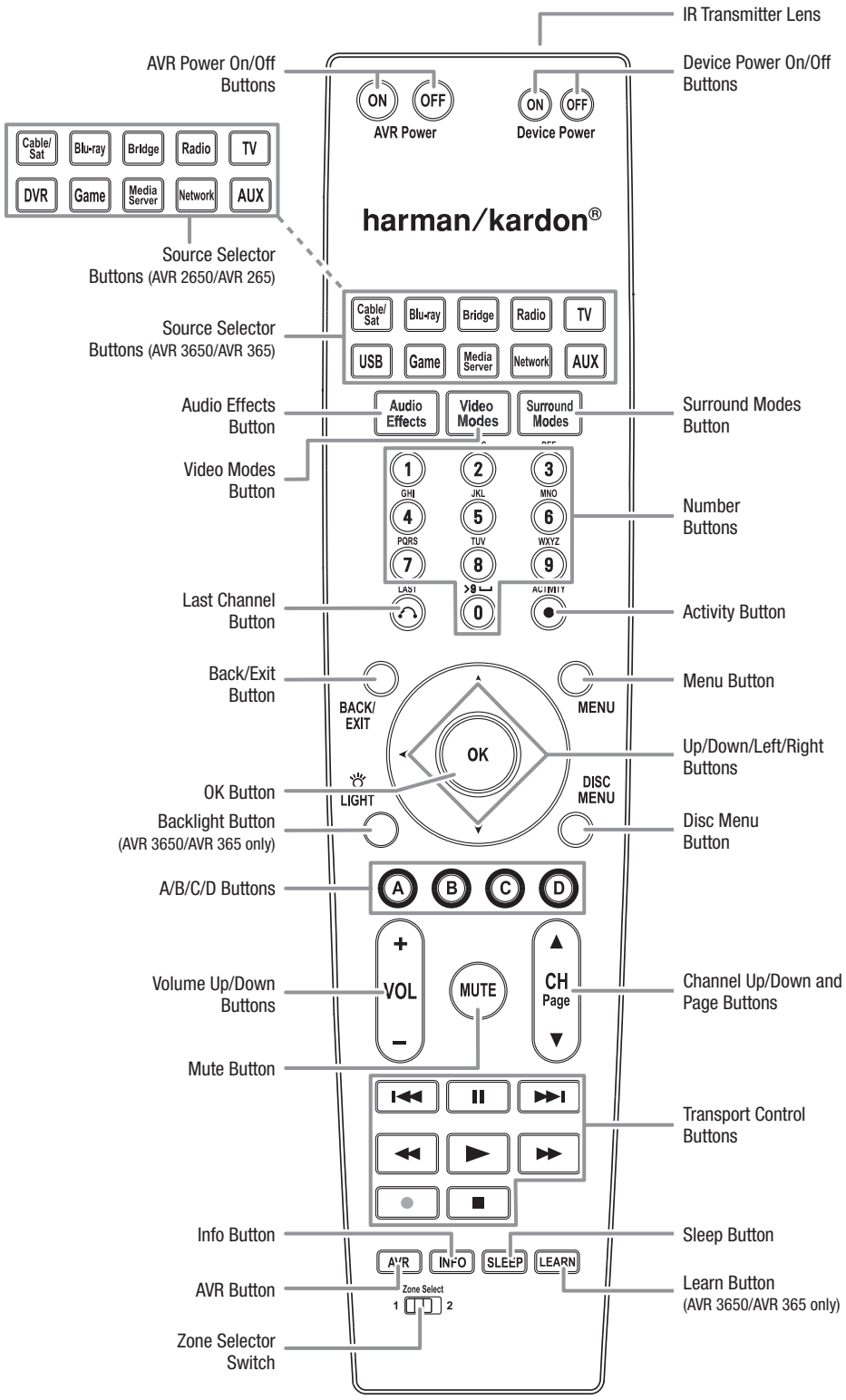
IR Remote In/Out connectors (AVR 3650/AVR 365 only): When the IR sensor on the front panel is blocked (such as when the AVR is installed inside a cabinet), connect an optional IR receiver to the IR Remote In jack. The IR Remote Out jack may be connected to the IR input of a compatible product to enable remote control through the AVR.

Fan Vents: These vents are used by the AVR's fan to cool the system. Maintain a clearance of at least three inches (75mm) from the nearest surface to avoid overheating the unit. It is normal for the fan to remain off at most normal volume levels. An automatic temperature sensor turns the fan on only when it is needed.

IMPORTANT NOTE: Never block the fan vents. Doing so could allow the AVR to overheat to dangerous levels.

AVR

System Remote Control Functions



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System Remote Control Functions, continued

In addition to controlling the AVR, the AVR remote is capable of controlling eight other devices, including an iPod/iPhone device docked in a The Bridge IIIP docking station connected to the AVR. During the installation process, you may program the codes for each of your source components into the remote. (See *Program the Remote to Control Your Source Devices and TV*, on page 23, for programming information.) To operate a component, press its Source Selector button to change the remote's control mode.

A button's function depends on which component is being controlled. See Table A13 in the Appendix for listings of the functions for each type of component. Most of the buttons on the remote have dedicated functions, although the precise codes transmitted vary depending on the specific device being controlled. Due to the wide variety of functions for various source devices, we have included only a few of the most-often used functions on the remote: alphanumeric keys, transport controls, television-channel control, menu access and power on and off. Buttons dedicated to the AVR – AVR Power On/Off, Audio Effects, Video Modes, Surround Modes, Volume, Mute and Sleep Settings – are available at any time, even when the remote is controlling another device. To return the remote to the AVR control mode at any time, press the Setup button.

AVR Power On/Off buttons: Press these buttons to turn the AVR on and off. The Main Power switch on the AVR's rear panel must be on for this button to work.

IR Transmitter Lens: As buttons are pressed on the remote, infrared codes are emitted through this lens.

Device Power On/Off buttons: Press a device's Source Selector button, then press these buttons to turn the device on and off.

Source Selector buttons: Press one of these buttons to select a source device, e.g., Blu-ray, Cable/Sat, Radio, etc. This action will also turn on the AVR and switch the remote's control mode to operate the selected source device. **NOTE:** The first press of the Radio Source Selector button switches the AVR to the last-used tuner band (AM, FM or SIRIUS). Each successive press changes the band.

Audio Effects button: Press this button to access the Audio Effects submenu, which allows adjustment of the AVR's tone and other audio controls. See the *Set Up Your Sources* section, on page 26, for more information.

Video Modes button: Press this button for direct access to the Video Modes submenu, which contains picture adjustments you can use after you have adjusted the picture settings on your TV or video display. See the *Advanced Functions* section, on page 33, for more information.

Surround Modes button: Press this button to access the Surround Modes submenu. Select a surround-mode category: Auto Select, Virtual Surround, Stereo, Movie, Music or Game. When you select the category, it is highlighted and the surround mode changes.

To change the surround mode for the selected category, press the OK button when the menu line is highlighted and use the Up/Down buttons to select one of the available surround-mode options. Press the OK button; or press the Back/Exit button to exit the Surround Modes menu and display the next higher menu in the hierarchy. See the *Advanced Functions* section, on page 33, for more information.

Number buttons: Use these buttons to enter numbers for radio-station frequencies or to select station presets.

Last Channel button: When controlling a cable, satellite or HDTV set-top box or a TV, press this button to return to the previous television channel.

Activity button: With this button you can program the remote to store up to 11 different Macros (Activities). (A Macro is a series of commands that are transmitted by a single button press.) Execute a Macro by pressing this button, followed by the Number button (or the AVR Power On button) into which you programmed the Macro. See *Programming Macro (Activity) Commands*, on page 41, for more information.

Back/Exit button: Press this button to return to the previous menu or to exit the menu system.

Menu button: This button is used within the tuner menus (including SIRIUS Radio) and The Bridge IIIP control menu, and is also used to display the main menu on some source devices. To display the AVR's menu system, press the Setup button.

Up/Down/Left/Right buttons: These buttons are used to navigate the menu system and to operate the tuner.

OK button: This button is used to select items from the menu system.

Backlight button (AVR 3650/AVR 365 only): Press this button to illuminate the buttons on the remote. Press it again to turn the backlight off, or wait 5 seconds after the last button press for the light to turn off on its own.

Disc Menu button: To display the disc's menu while a DVD or Blu-ray Disc is playing, press the Blu-ray Source Selector button, then press this button.

A/B/C/D buttons: These buttons can be used as additional source buttons and can also operate certain functions when used with some source devices. See Table A13 in the Appendix for details. These buttons are also used with a Teletext®-capable television if your broadcast, cable or satellite provider offers Teletext service.

Volume Up/Down buttons: Press these buttons to raise or lower the volume.

Channel Up/Down and Page buttons: When the tuner has been selected, press these buttons to select a preset radio station. While operating a cable, satellite or HDTV set-top box or a television, press these buttons to change channels.

Mute button: Press this button to mute the AVR's speaker-output connectors and headphone jack. To restore the sound, press this button or adjust the volume.

Transport Control buttons: These buttons are used to control source devices and The Bridge IIIP.

Info button: Press to display the AVR's Info Menu, which contains the settings for the current source.

Setup button: Press to display the AVR's Main Menu or to switch the remote to the AVR control mode.

Sleep button: Press this button to activate the sleep timer, which turns off the receiver after a programmed period of time. Each press increases the time by 10 minutes, up to 90 minutes – ending with the "Sleep Off" message.

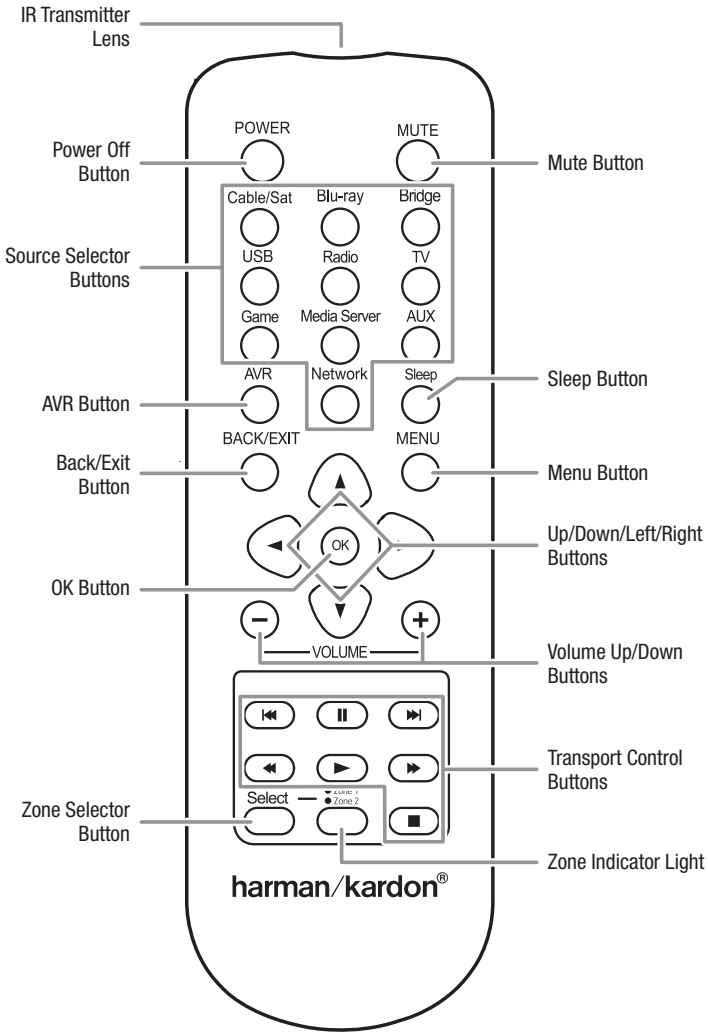
Learn button (AVR 3650/AVR 365 only): The AVR 3650/AVR 365 remote is capable of "learning" individual IR codes from the original remote that came with a source device. See *Program the Remote to Control Your Source Devices and TV*, on page 23, for more information.

Zone Selector switch: Use this switch to select whether the AVR commands will affect the main listening area (Zone 1) or the remote zone of a multizone system (Zone 2). For normal operation, leave the switch in the Zone 1 position.

AVR

Zone 2 Remote Control Functions (AVR 3650/AVR 365 only)

Zone 2 Remote Control Functions (AVR 3650/AVR 365 only)



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Zone 2 Remote Control Functions (AVR 3650/AVR 365 only), continued

By installing an IR receiver in the remote zone of a multizone system and connecting it to the AVR's Zone 2 IR Input connector, you can use the Zone 2 remote to control the sound in the remote zone from within the remote zone. You can use it to control the AVR's power, volume and mute functions or to select a source input for the remote zone, and to control a Harman Kardon source device connected to one of the AVR's Remote IR Out connectors. See *Connect IR Equipment*, on page 22, for more information.

You can also use the Zone 2 remote in the main listening room to control the AVR and Harman Kardon Blu-ray Disc™, DVD, CD or tape players. When the Zone 2 remote is in the Zone 1 control mode (the remote's Zone Indicator light will turn green), its power, volume and mute controls will affect only the main listening area. To restore operation to the remote zone, press the remote's Zone Selector button so that its Zone Indicator light turns red.

IR Transmitter lens: As buttons are pressed on the remote, infrared codes are emitted through this lens.

Power Off button: Press this button to turn the AVR off.

Mute button: Press to mute the AVR's remote-zone speakers. To restore the sound, press this button, adjust the volume or turn off the multizone system. Make sure to switch the remote to Zone 2 mode so that only the remote zone will be affected.

Source Selector buttons: With the remote in Zone 2 mode, press one of these buttons to select a source device for the remote zone. Pressing the button will also turn on the multizone system and switch the remote to the selected source device's control mode. You may select a different external source device than that for the main room, but not different tuner bands. If you select the same source as that for the main room, any commands sent to the source device will affect both zones. The first press of the Radio Source Selector button switches the AVR to the last-used tuner band (AM, FM or SIRIUS). Each successive press changes the band.

Sleep button: Press this button to activate the sleep timer, which turns off the receiver after a programmed period of time. Each press increases the time by 10 minutes, up to 90 minutes – ending with the "Sleep Off" message.

AVR button: Press this button to turn on the AVR and select the last-used source. This button is also used to switch the remote control to AVR control mode.

Back/Exit button: Press this button to return to the previous menu or to exit the menu system.

Menu button: This button is used within the tuner menus (including SIRIUS Radio) and The Bridge IIIP control menu, and is also used to display the main menu on some source devices. To display the AVR's menu system, press the Setup button.

Up/Down/Left/Right buttons: These buttons are used to navigate the menu system and to operate the tuner.

OK button: This button is used to select items from the menu system.

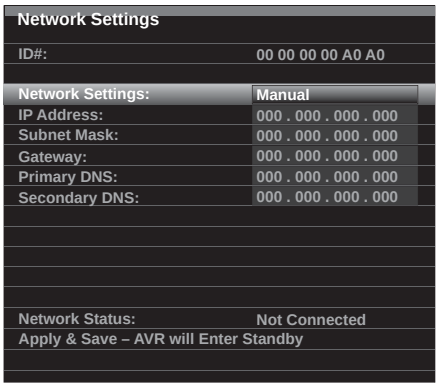
Volume Up/Down buttons: Press to raise or lower the volume level in the remote zone.

Transport Control buttons: These buttons are used to control source devices and The Bridge IIIP.

Zone Selector button and Zone Indicator light: Each press of the Zone Selector button determines whether the AVR commands will affect the main listening area (Zone 1) or the remote zone (Zone 2). The Zone Indicator light will turn green when Zone 1 has been selected, and red when Zone 2 has been selected. The Zone Indicator light will also light up briefly when any button is pressed.

General AVR Settings

Network Settings: Select this to set up your AVR for connection to your home network.



- ID #: This line is informational only and identifies the AVR to other devices on your home network and the Internet for www.radioharmankardon.com.
- Network Settings: Since most networks use automatic IP address settings, in most cases you can set Network Settings to Automatic. If you are required to use a static IP address and network settings, you must obtain these settings from your ISP or network administrator. Use the OK button to set this line to "Manual." The following settings will become active: IP Address, Subnet Mask, Gateway, Primary DNS, Secondary DNS.

Use the Number buttons to make the entries for all of these settings. When you have finished, select Apply & Save, and press the OK button. The AVR will enter the Standby mode. When you turn the AVR back on, it will attempt to connect to the network using the settings you entered. If the AVR cannot connect to the network using the manual settings, contact your ISP or network administrator for assistance.

- Network Status: This line indicates the AVR's current network-connection status (Connected/Not Connected).
- Apply & Save: Any time you make a change in any of the Network settings, the Apply & Save line will become available. Select this line and press the OK button. The AVR will go into the Standby mode. After you turn the AVR back on, the new network settings will be in effect. **IMPORTANT: You must select Apply & Save for your network settings to take effect.**

NOTE: If you have trouble connecting to the network at any time, cycle the AVR into the Standby mode, and then turn it back on.

Volume Units: This setting lets you select whether the AVR displays the volume level in the conventional decibel scale or on a numeric scale from 0 to 100. When the decibel scale is used, 0dB is the maximum recommended volume, with lower volumes displayed as negative values. (-90dB – +10dB). The decibel scale is the default setting.

Volume Default and Volume Default Level: These two settings are used together to program the volume level when you turn on the AVR. Set Volume Default to On, and then set the Volume Default Level to the desired turn-on volume. When Volume Default is set to Off, the AVR will turn on at the last-used volume setting from the previous listening session.

Unit of Measure: Adjusts the speaker-distance settings for Manual Speaker Setup. Select between meters and feet.

Language: Select the preferred language for the AVR's on-screen menus and displays: English, French, Spanish, German, Italian or Russian.

Dolby Volume Calibration: This setting determines the Dolby Volume calibration, as described in *Dolby Volume Calibration*, on page 28. Refer to that section for details about setting the calibration.

RS232 Control: If you have connected the AVR to an external control system via its RS-232 port, set this line to On to enable the AVR to be controlled by the external control system. Refer to the control system's documentation for details.

Menu Appearance

Menu Transparency: This selection lets you determine whether video programs will be visible when the menu system is in use. Select Normal for a fully transparent background, Medium for partial transparency or Opaque to completely block video programs while menus are on screen.

Volume/Status Messages: When the AVR is turned on, the volume is adjusted, the source is changed or a change in the input signal is detected, a status message will be displayed on the TV screen. Select how long the message remains visible, from 2 to 10 seconds, with a default of 3 seconds. Select "Off" if you do not wish to see the status messages on the TV screen (they will still appear on the AVR's front-panel message display).

Menus: This setting governs how long the Surround Modes, Video Modes and Audio Effects menus remain visible after the last adjustment: 5 seconds, 10 seconds, 30 seconds, 1 minute or 5 minutes. Select "No Time-Out" to view the menus indefinitely, but this setting is not recommended, due to the danger of "burn-in" on some video displays.

Setup and Slide-In Menus: This setting determines how long the setup menus (Main Menu, Speaker Setup Menu, Zone 2 Menu, all slide-in menus) remain visible after the last adjustment. Select a time-out period of 5, 10 or 15 (the default) minutes, or no time-out, which leaves the menus on screen until manually cleared. A time-out period avoids the possibility of burn-in damage to plasma or CRT displays.

Screen Saver: Program a time-out period for no activity (with no menus displayed) before the AVR's built-in screen saver begins. Select a period of 5 minutes, 10 minutes, 20 minutes, 30 minutes or 1 hour, or turn off the screen saver. A time-out period avoids the possibility of burn-in damage to plasma or CRT displays.

System Info

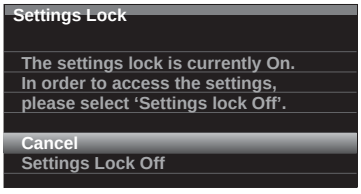
Software Version: This line is informational only. From time to time, Harman Kardon engineers may release software upgrades that improve your AVR's performance or add features. If you are experiencing difficulties with the AVR, a customer-service representative may ask for the software version of your product to determine whether a later upgrade is available.

Upgrade Software: If a software upgrade is released for your AVR, installation instructions will be available in the Product Support section of the Web site or from Harman Kardon customer service. At that time, you may access this submenu to install the upgrade software.

IMPORTANT: During a system upgrade, do not power off the AVR or use any of its controls. Doing so could permanently damage the AVR.

Settings Lock

Settings Lock prevents the Setup Source, Speaker Setup and System settings menus from being inadvertently changed. With Settings Lock set to On, the screen shown below will appear whenever someone attempts to access a setting in one of those menus.



Select "Settings Lock Off" to access the settings or "Cancel" if the setting was accessed inadvertently. NOTE: If you select "Settings Lock Off," you will need to turn the Settings Lock back on via the Settings Lock menu.

ENGLISH

Advanced Remote Control Programming

Remote Channel-Control Punch-Through

The punch-through feature allows you to operate one component while setting certain groups of controls to operate another component. For example, while using the AVR controls for surround modes and other audio functions, you may also use the remote to operate the transport controls of your Blu-ray Disc player. Or while using the remote to control video functions on your TV, you may also use the remote to change channels on your cable box.

To program punch-through control while operating any device:

1. For three seconds press and hold the Source Selector button for the main device the remote will be operating. The Source Selector will light up, go dark and then light up again, indicating the remote is in Program mode and that you may release the button.
2. Select the type of punch-through programming.
   a) For channel-control punch-through, press the Channel Up button.
   b) To program transport-control punch-through, press the Play transport-control button.
3. Press the Source Selector button for the device whose channel or transport controls you will use while operating the device selected in the first step. The Source Selector button will flash to confirm.

For example, to watch the TV while changing channels using the cable box, press and hold the TV button until it lights. Then press the Channel Up button, followed by the Cable/SAT button.

To undo punch-through programming, follow the same steps as above, but press the same Source Selector button in Steps 1 and 3.

NOTE: The Volume and Mute controls are always dedicated to the AVR.

Programming Macro (Activity) Commands

In addition to their normal functions, you can also use the 0 – 9 Number buttons and AVR Power On button to store Macro (Activity) commands – up to 11 of them. Each Macro can send out up to 19 commands at one time from a single button push. Any AVR remote control button's function from any mode (except the Back/Exit button, the Light button, and the Activity button) can be programmed into a Macro.

NOTE: Use caution when programming complicated Macros. It isn't possible to program a pause or delay before sending additional commands after a "Power On" command, and the component may not be ready to respond to commands immediately after powering on.

To program a Macro:

1. To enter the Programming mode, simultaneously press and hold the Activity button and the Number button or AVR Power On button to which you want to assign the Macro.
2. Press in up to 19 commands that you want stored in that Macro button. During each successive button selection, the Source Selector button LED will blink once. Press the Source Selector button for each device (or Setup button for the AVR itself) before you enter individual commands. This step counts as one of the 19 commands allowed for each Macro.

- You can select functions from another mode by first pressing the corresponding Source Selector button and then the buttons where those functions are located within that mode. Pressing a Source Selector button also counts as one command.
- For power on, press the AVR or Device Power On button.
- For power off, press the AVR or Device Power Off button.

3. Press the Activity button to end the programming process. The last Source Selector button (or the Setup button) will flash three times.

It isn't possible to "edit" a command within a Macro. To erase the Macro:

1. Press and hold the Activity Button and the button into which you programmed the Macro until the Source Selector or Setup button lights up.
2. Press the Activity button to erase the Macro.

To execute a Macro:

Press the Activity button, then press the button into which you programmed the Macro.

IMPORTANT: Keep the remote aimed at the components until all of the Macro commands have been executed. The remote can take up to 10 seconds to send out 19 Macro commands.

Recording

Two-channel analog and digital audio signals, as well as composite video signals, are normally available at the appropriate recording outputs. To make a recording, connect your audio or video recorder to the appropriate AVR output connectors as described in the Making Connections section, insert blank media in the recorder and make sure the recorder is turned on and recording while the source is playing. Refer to the recording device's instructions for complete information about making recordings.

NOTES:

1. The AVR does not convert analog signals to digital or vice versa.
2. HDMI and component video sources are not available for recording.
3. Please make certain that you are aware of any copyright restrictions on any material you record. Unauthorized duplication of copyrighted materials is prohibited by law.

Sleep Timer

The sleep timer sets the AVR to play for up to 90 minutes and then turn off automatically.

Press the Sleep button on the remote, and the time until turn-off will be displayed. Each additional press of the Sleep button increases the play time by 10 minutes, with a maximum of 90 minutes. The SLEEP OFF setting disables the sleep timer.

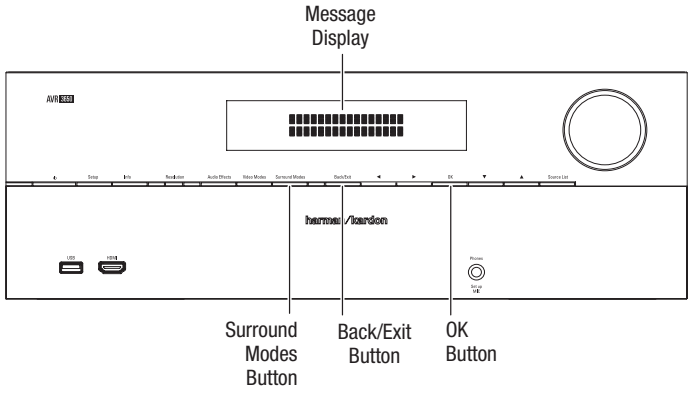
When the sleep timer has been set, the front-panel display will automatically dim to half brightness.

If you press the Sleep button after the timer has been set, the remaining play time will be displayed. Press the Sleep button again to change the play time.

Updating Your Network Software

From time to time, updates to your network sofwtare may become available. To check for and download these updates:

1. After the AVR has connected to your network, press the remote's Internet Radio source button.
2. On the AVR front panel, simultaneously press and hold the Surround Modes and Back/Exit buttons.



3. Watch the front-panel Message Display for a message that the unit is checking for software updates. When the message appears, release the buttons.

4. If the message indicates that an update is available, press the front-panel OK button to begin the update.
5. During the update a progress bar and status messages will appear on the Message Display. Do not touch any controls on the AVR and do not interrupt the network connection during the update.
6. When the update is completed the AVR will automatically power off, and after five seconds will automatically power back on. Once the AVR turns back on it's ready to use.

Resetting the Remote

To reset the remote to its factory default condition, simultaneously press and hold the TV Source Selector button and the "0" Number button. When the TV Source button relights, enter the code "333." When the TV button goes out, and all of the Source Selector buttons flash, the remote control will be reset.

Processor Reset

If the AVR behaves erratically after a power surge, first turn off the rear-panel Main Power switch and unplug the AC power cord for at least 3 minutes. Plug the cord back in and turn the receiver on. If this procedure doesn't help, reset the AVR's processor as described below.

NOTE: A processor reset erases all user configurations, including video resolution, speaker and level settings, and tuner presets. After a reset, reenter all of these settings from your notes in the Appendix worksheets.

To reset the AVR's processor:

1. Press the front-panel Standby/On switch to place the unit in the Standby mode (the Power Indicator will turn amber).
2. Press and hold the front-panel OK button for at least 5 seconds until the RESET message appears on the front-panel Message Display.

NOTE: After performing a processor reset, wait at least 1 minute before pressing any Source Selector buttons.

If the receiver does not function correctly after a processor reset, contact an authorized Harman Kardon service center for assistance. Authorized service centers may be located by visiting our Web site at www.harmankardon.com.

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Troubleshooting

Symptom	Cause	Solution
Unit does not function when Main Power switch is turned on	• No AC power	• Ensure that the power cord is plugged into a live AC power outlet • Check if the AC outlet is switch-controlled
Front-panel Message display lights, but there's no sound or picture	• Intermittent input connection • Mute is on • Volume control is turned down	• Secure all input and speaker connections • Press Mute button • Turn up Volume control
No sound from any speaker; PROTECT message appears on Message display	• Amplifier is in protection mode due to possible short circuit • Amplifier is in protection mode due to internal problems	• Check all speaker wires at speaker and AVR connections for crossed wires • Contact your local Harman Kardon service center
No sound from center or surround speakers	• Incorrect surround mode • Program material is monophonic • Incorrect speaker configuration • Program material is stereo	• Select a surround mode other than stereo • Mono programs contain no surround information • Check the speaker configuration in the setup menu • The surround decoder may not create center- or surround-channel information from nonencoded programs
Unit does not respond to remote control commands	• Weak batteries in remote • AVR not selected • Remote sensor is obscured	• Change batteries in remote • Press the Setup/AVR button • Ensure that the AVR's front-panel remote sensor is in the line of sight of the remote
Intermittent buzzing in tuner	• Local interference	• Move the AVR or antenna away from computers, fluorescent lights, motors or other electrical appliances
(AVR 3650/AVR 365 only): Surround-back speaker settings cannot be accessed, and the test tone does not play through the surround back speakers	• Multi-zone operation has been selected/Assigned AMP channels have been assigned to Zone 2	• Use the Speaker Setup menu to reassign the Assigned AMP to the surround back left and right channels
(AVR 3650/AVR 2650 only): The SIRIUS Preview Channel (001) is silent	• SIRIUS tuner is not connected • SIRIUS antenna is in an improper location • SIRIUS signal requires a refresh	• Ensure that SIRIUS tuner is properly connected • Re-locate the SIRIUS antenna according to the recommendations in the SIRIUS tuner's instruction manual. For further help, visit www.siriusradio.com • Visit www.siriusradio.com
Unable to activate remote control Programming mode	• Source Selector button is not held for at least 3 seconds	• Be sure to hold the Source Selector button for at least 3 seconds
Remote buttons light, but AVR does not respond	• Remote is in Zone 2 mode	• Slide Zone Selector switch to the Zone 1 position.
Unable to establish network connection	• AVR network programming requires rebooting	• Cycle the AVR into the Standby mode, and then turn it on again

Additional information on troubleshooting possible problems with your AVR and installation-related issues may be found in the list of "Frequently Asked Questions," which is located in the Product Support section of our Web site: www.harmankardon.com

Specifications

Audio Section

Stereo power:	AVR 3650/AVR 365: 110W per channel, two channels driven @ 8 ohms, 20Hz – 20kHz, <0.09% THD AVR 2650/AVR 265: 95W per channel, two channels driven @ 8 ohms, 20Hz – 20kHz, <0.09% THD
Multichannel power:	AVR 3650/AVR 365: 110W per channel, two channels driven @ 8 ohms, 20Hz – 20kHz, <0.09% THD AVR 2650/AVR 265: 95W per channel, two channels driven @ 8 ohms, 20Hz – 20kHz, <0.09% THD
Input sensitivity/impedance:	200mV/47k ohms
Signal-to-noise ratio (IHF-A):	100dB
Surround system adjacent channel separation:	Dolby Pro Logic/DPLII: 40dB Dolby Digital: 55dB DTS: 55dB
Frequency response (@ 1W):	10Hz – 130kHz (+0dB/–3dB)
High instantaneous current capability (HCC):	±35 amps
Transient intermodulation distortion (TIM):	Unmeasurable
Slew rate:	40V/µsec

FM Tuner Section

Frequency range:	87.5 – 108.0MHz
Usable sensitivity IHF:	1.3µV/13.2dBf
Signal-to-noise ratio (mono/stereo):	70dB/68dB
Distortion (mono/stereo):	0.2%/0.3%
Stereo separation:	40dB @ 1kHz
Selectivity (±400kHz):	70dB
Image rejection:	80dB
IF rejection:	90dB

AM Tuner Section

Frequency range:	520 – 1710kHz (AVR 3650/AVR 2650) 522 – 1620kHz (AVR 365/AVR 265)
Signal-to-noise ratio:	45dB
Usable sensitivity (loop):	500µV
Distortion (1kHz, 50% mod):	0.8%
Selectivity (±10kHz):	30dB

Video Section

Television format:	NTSC (AVR 3650/AVR 2650); PAL (AVR 365/AVR 265)
Input level/impedance:	1Vp-p/75 ohms
Output level/impedance:	1Vp-p/75 ohms
Video frequency response (composite video):	10Hz – 8MHz (–3dB)
HDMI:	Version 1.4a with 12-bit Deep Color

General Specifications

Power requirement:	120V AC/60Hz (AVR 3650/AVR 2650); 220V – 240V AC/50Hz – 60Hz (AVR 365/AVR 265)
Power consumption:	<0.5W (standby); 480W maximum (AVR 3650/AVR 365); 420W maximum (AVR 2650/AVR 265)
Dimensions (W x H x D):	17-5/16" x 6-1/2" x 17-1/8" (440mm x 165mm x 435mm)
Weight	(AVR 3650/AVR 365): 27.25 lb (12.4kg) (AVR 2650/AVR 265): 24.4 lb (11.1kg)

Depth measurement includes knobs, buttons and terminal connections.
Height measurement includes feet and chassis.

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Appendix – Default settings, worksheets, remote product codes

Table A1 – Recommended Source Component Connections

Device Type	AVR Source	Digital Audio Connection	Analog Audio Connection	Video Connections
Cable TV, satellite TV, HDTV or other device that delivers television programs	Cable/SAT	HDMI 2	Analog 1, 2 or 3	HDMI 2
DVD Audio/Video, SACD, Blu-ray Disc, HD-DVD player	Blu-ray	HDMI 1	Analog 1, 2 or 3	HDMI 1
Media Server, including Harman Kardon DMC 1000	Media Server	HDMI 4	Analog 1, 2 or 3	HDMI 4
TV	TV	HDMI 5 (AVR 3650/AVR 365); HDMI 1 (AVR 2650/AVR 265)	Analog 1, 2 or 3	HDMI 5 (AVR 3650/AVR 365); HDMI 1 (AVR 2650/AVR 265)
Video-game console	Game	HDMI 3 (or HDMI front on AVR 3650/AVR 365)	Analog 1, 2 or 3 4	HDMI 3 (or HDMI front on AVR 3650/AVR 365)
Any audio or video device, e.g., CD player, camcorder, cassette deck	AUX	Coaxial or Optical	Analog 1, 2 or 3	Composite Video 1 or 2 (not used for audio-only devices)
Recorder	Any	Coaxial or Optical Input and Optical Output	Analog 1, 2 or 3 Inputs and Rec Out	Composite Video 2 Input and Output
iPod or iPhone	The Bridge IIIP	None	The Bridge IIIP	The Bridge IIIP for photo- and video-capable iPod and iPhone models
DVR (AVR 2650/AVR 265 only)	DVR	HDMI 5	Analog 1, 2 or 3	HDMI 5

Table A2 – Source Setting Defaults

	Cable/Sat	Blu-ray	Media Server	Radio	TV	Game	AUX	The Bridge	DVR (AVR 2650/ AVR 265 only)	USB (AVR 3650/ AVR 365 only)
Surround Modes (Auto Select)	Logic 7 Movie	Logic 7 Movie	Logic 7 Movie	Logic 7 Movie	Logic 7 Movie	Logic 7 Movie	Logic 7 Music	Logic 7 Music	Logic 7 Movie	Stereo
Video Input	HDMI 2	HDMI 1	HDMI 4	N/A	HDMI 5 (AVR 3650/AVR 365); HDMI 1 (AVR 2650/AVR 265)	HDMI 3	HDMI Front (AVR 3650/AVR 365); N/A (AVR 2650/ AVR 265)	The Bridge III	HDMI 5	N/A
Audio Input	HDMI 2	HDMI 1	HDMI 4	N/A	HDMI 5 (AVR 3650/AVR 365); HDMI 1 (AVR 2650/AVR 265)	HDMI 3	HDMI Front (AVR 3650/AVR 365); Analog 2 (AVR 2650/AVR 265)	The Bridge III	HDMI 5	N/A
Resolution to Display*	480i (NTSC); 576p (PAL)	480i (NTSC); 576p (PAL)	480i (NTSC); 576p (PAL)	480i (NTSC); 576p (PAL)	480i (NTSC); 576p (PAL)	480i (NTSC); 576p (PAL)	480i (NTSC); 576p (PAL)	480i (NTSC); 576p (PAL)	480i (NTSC); 576p (PAL)	480i (NTSC); 576p (PAL)
Audio Auto Polling	Off	Off	Off	N/A	Off	Off	Off	N/A	Off	N/A
Zone 2 Audio	—	—	—	Radio	—	—	Analog 2	The Bridge III	—	USB
Dolby Volume	Medium	Low	Medium	Medium	Medium	Medium	Low	Medium	Medium	Medium

* Video output resolution may vary for HDMI connections. The default HDMI resolution is 1080i for NTSC and PAL.

Table A3 – Speaker/Channel Setting Defaults

	All Digital and Two-Channel Analog Audio Input Connectors	Your Settings Position 1	Your Settings Position 2
Left/Right Speakers	ON		
Center Speaker	ON		
Left/Right Surround Speakers	ON		
Left/Right Surround Back Speakers	OFF		
Subwoofer 1	ON		
Subwoofer 2	ON		
Left/Right Speakers Crossover Frequency	100Hz		
Center Speaker Crossover Frequency	100Hz		
Left/Right Surround Speakers Crossover Frequency	100Hz		
Left/Right Surround Back or Left/Right Front Height Speakers Crossover Frequency	100Hz		
Subwoofer Mode	LFE		
Subwoofer Size	10 inch		
Front Left Level	0dB		
Center Level	0dB		
Front Right Level	0dB		
Surround Right Level	0dB		
Surround Back Right/Front Height Right Level	0dB		
Surround Back Left/Front Height Left Level	0dB		
Surround Left Level	0dB		
Sub Level	0dB		

Table A4 – Delay Setting Defaults

Speaker Position	Distance From Speaker to Listening Position	Your Delay Settings Position 1	Your Delay Settings Position 2
Front Left	10 feet (3 meters)		
Center	10 feet (3 meters)		
Front Right	10 feet (3 meters)		
Surround Right	10 feet (3 meters)		
Surround Left	10 feet (3 meters)		
Surround Back Right/Front Height Right	10 feet (3 meters)		
Surround Back Left/Front Height Left	10 feet (3 meters)		
Subwoofer	10 feet (3 meters)		
A/V Lip Sync Delay (See Info Settings Menu)	0mS		

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Table A5 – Source Settings

	Cable/Sat	Blu-ray Disc	Media Server	Radio	TV	USB (AVR 3650/ AVR 365)	Network	Game	AUX	The Bridge	DVR (AVR 2650/ AVR 265)
Device Type						USB					
Surround Modes											
Video Input						N/A				The Bridge III	
Audio Input						USB				The Bridge III	
Resolution to Display											
Adjust Lip Sync											
Change Name						N/A				N/A	
Audio Auto Polling						N/A				N/A	
Zone 2 Audio						USB				The Bridge III	
Dolby Volume											

Table A6 – Audio Effects Settings

	Default	Cable/Sat	Blu-ray Disc	Media Server	Radio	TV	USB (AVR 3650/ AVR 365)	Network	Game	AUX	The Bridge	DVR (AVR 2650/ AVR 265)
Dolby Volume	See Source											
Tone Control	On											
Treble	0dB											
Bass	0dB											
LFE Trim	0dB											
MP3 Enhancer	Off											

Table A7 – Video Modes Settings

	Default	Cable/Sat	Blu-ray Disc	Media Server	Radio	TV	USB (AVR 3650/ AVR 365)	Network	Game	AUX	The Bridge	DVR (AVR 2650/ AVR 265)
Video Mode	Off											
Brightness*	50											
Contrast*	50											
Color*	50											
Sharpness*	50											
Picture Adjust	Auto Adjust											
Overscan	Off											
Noise Reduction**	Off											
MPEG Noise Reduction**	Off											
Cross Color Suppressor**	Off											
Flesh Tone Enhancement**	Off											
Black Level**	Off											
Deinterlacing**	Off											
Film Mode Detect**	Off											

* Note: These settings are available only when the Video Mode is set to Custom.
** Note: These settings are displayed only when Advanced Video Settings is selected.

Table A8 – Surround Modes

	Default	Cable/Sat	Blu-ray Disc	Media Server	Radio	TV	USB (AVR 3650/ AVR 365)	Network	Game	AUX	The Bridge	DVR (AVR 2650/ AVR 265)
Auto Select	Logic 7 Movie or native digital format											
Virtual Surround	Harman virtual speaker											
Stereo	7 CH Stereo											
Movie	Logic 7 Movie											
Music	Logic 7 Music											
Game	Logic 7 Game											
Center Width*	3											
Dimension*	0											
Panorama*	Off											

* Note: These settings are available only when Dolby Pro Logic II or IIx Music mode has been selected. Access these settings by selecting the Edit option.

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Appendix

Table A9 – Remote Control Codes

Source Input	Device Type (if changed)	Product Brand and Code Number
Cable/Sat		
Blu-ray Disc		
DVR (AVR 2650/AVR 265)		
Media Server		
TV		
Game		
AUX		

Table A10 – System Settings

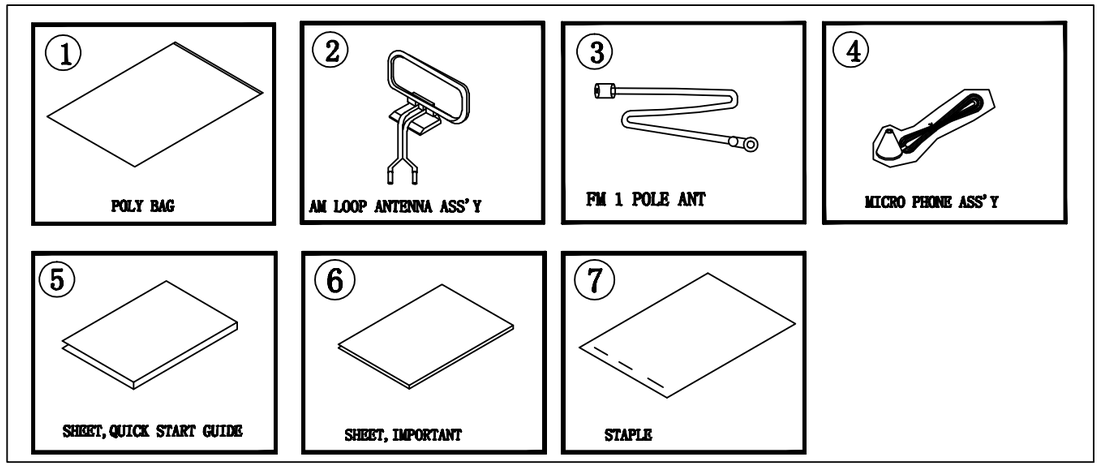
Feature	Default	Your Settings
Front Panel Dimmer	On 100%	
HDMI Audio to TV	Off	
HDMI Control	Off	
Audio Return Channel	Off	
Power Control	Off	
TV Control	Off	
Network Settings	Automatic	
Volume Units	dB	
Volume Default	Off	
Volume Default Level	–25dB	
Unit of Measure	Feet (AVR 3650/AVR 2650): Meters (AVR 365/AVR 265)	
Language	English	
Dolby Volume Calibration	0dB	
RS232 Control	Off	
Menu Transparency	Medium	
Volume/Status Messages	3 Seconds	
Menus	1 minute	
Setup and Slide-In Menus	5 minutes	
Screen Saver	10 minutes	
Software Version	Check your unit	

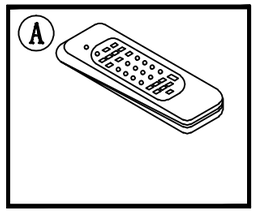
Table A11 – Zone 2 Settings

Source Input	Default	Your Settings
Status	Off	
Source	Cable/Sat	
Volume	–25dB	
Assigned AMP	Surround Back	

AVR265/230

1. Instruction manual ass'y - Accessories

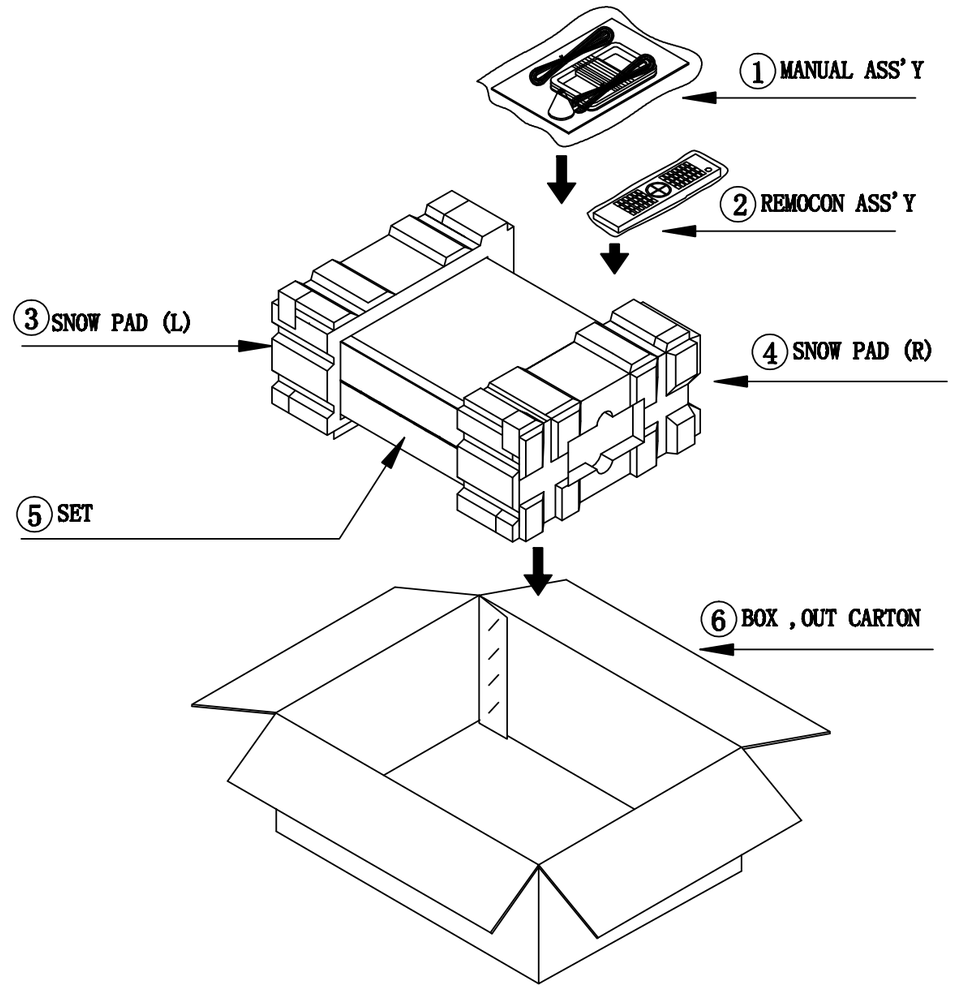




ACCESSORY-1			
NO	DESCRIPTION	PARTS NO.	Q, ty
1	POLY BAG	CPB1A190Z	1
2	ANT , AM LOOP	CSA1A032Z	1
3	FM 1 POL ANT	CSA1A018Z	1
4	MICRO PHONE ASS'Y	CJXAVR365MICRO	1
5	SHEET, QUICK START GUIDE	CQE1A488Z	1
6	SHEET, IMPORTANT	CQE1A523Z	1
7	STAPLE	CPL0905	3

A	REMOCON ASS'Y(57KEY)	CARTAVR265-HK	1

2. Package Drawing

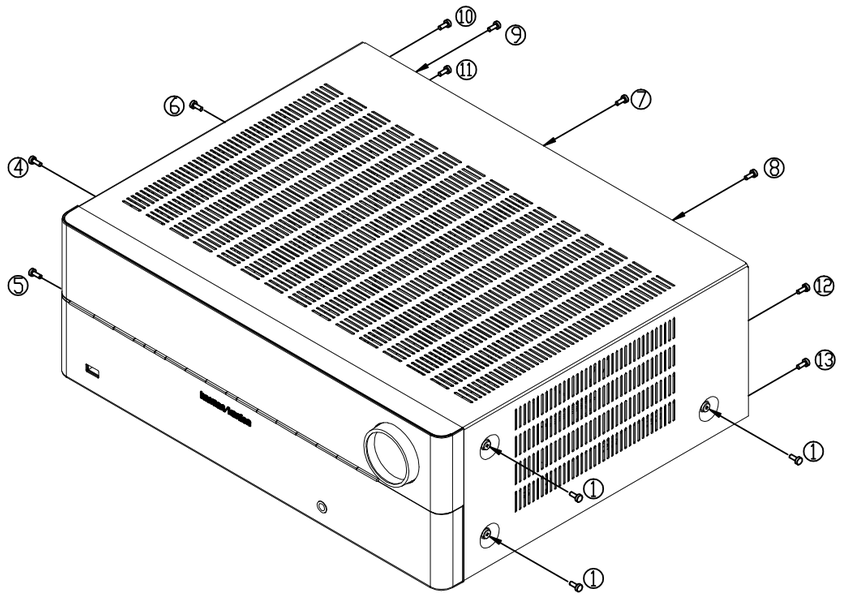


NO	DESCRIPTION	PARTS NO.	Q, ty
1	MANUAL ASS'Y	CQXAVR265/230	1
2	REMOCON ASS'Y(57KEY)	CARTAVR265-HK	1
3	SNOW, PAD(L)	CPS5A564Z	1
4	SNOW, PAD(R)	CPS5A565Z	1
5	SET	AVR265/230SET	1
6	BOX, OUT CARTON	CPG1A937T	1

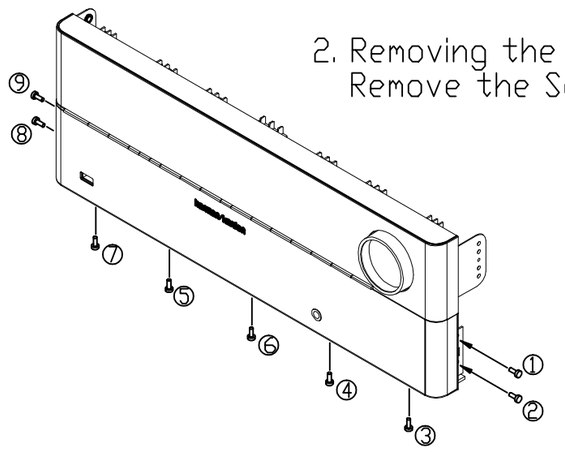
DISASSEMBLY

AVR265/230

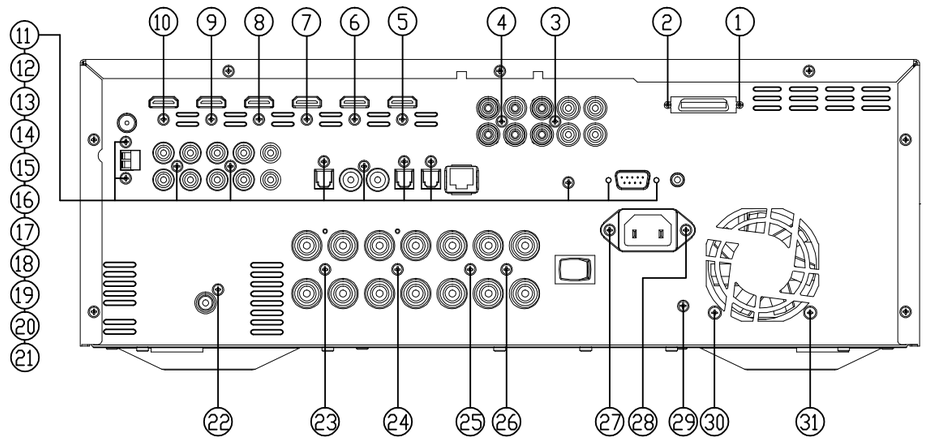
1. Removing the Top Cabinet
Remove the Screws ①~⑬



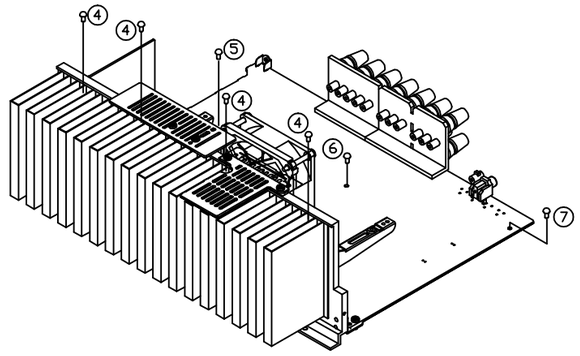
2. Removing the Front Panel
Remove the Screws ①~⑨



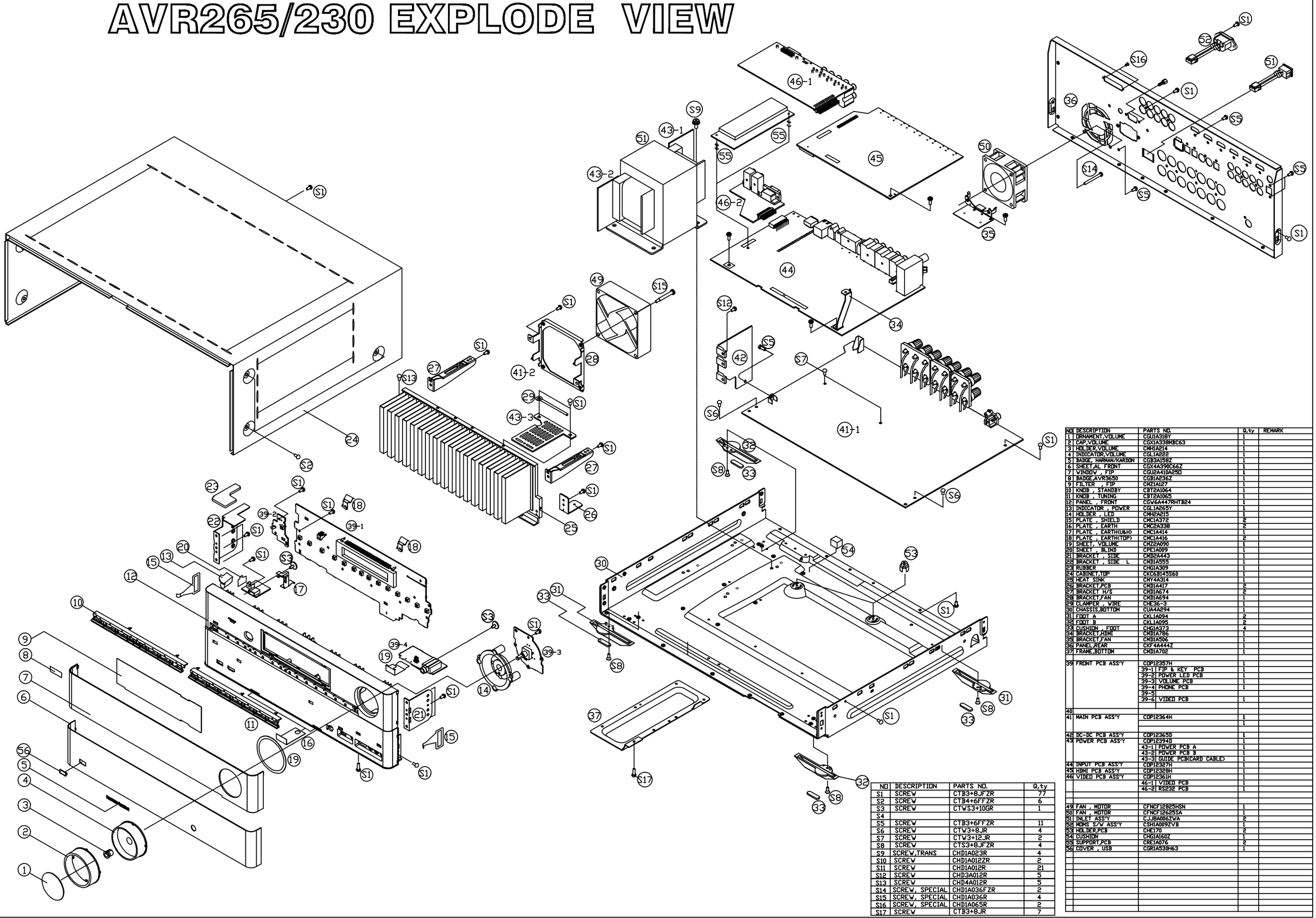
3. Removing the Rear Panel
Remove the Screws ①~㉛



4. Removing the Main PCB
Remove the Screws ①~⑦



AVR265/230 EXPLODE VIEW



NO	DESCRIPTION	PARTS NO.	Q,ty	REMARK
1	ORNAMENT,VOLUME	CGU1A318Y	1	
2	CAP,VOLUME	CGX1A338MBC63	1	
3	HOLDER,VOLUME	CMH1A214	1	
4	INDICATOR,VOLUME	CGL1AE22	1	
5	BADGE, HARMAN/KARDON	CGB3A158Z	1	
6	SHEET,AL FRONT	CGX4A390C66Z	1	
7	WINDOW , FIP	CGU2A410A25D	1	
8	BADGE,AVR3650	CGB1AE236Z	1	
9	FILTER , FIP	CMZ1A127	1	
10	KNOB , STANDBY	CBT2A1064	1	
11	KNOB , TUNING	CBT2A1065	1	
12	PANEL , FRONT	CGV6A447RHTB24	1	
13	INDICATOR , POWER	CGL1AE65Y	1	
14	HOLDER , LED	CMH2A215	1	
15	PLATE , SHIELD	CMC1A372	2	
16	PLATE , EARTH	CMC2A338	2	
17	PLATE , EARTH(CU&H)	CMC1A414	1	
18	PLATE , EARTH(TOP)	CMC1A416	2	
19	SHEET, VOLUME	CMZ2A090	1	
20	SHEET , BLIND	CPE1A009	1	
21	BRACKET , SIDE	CMD2A443	1	
22	BRACKET , SIDE L	CMD1A555	1	
23	RUBBER	CHG1A309	1	
24	CABINET,TOP	CKC6B145S60	1	
25	HEAT SINK	CHY4A314	1	
26	BRACKET,PCB	CMD1A417	2	
27	BRACKET H/S	CMD1A674	2	
28	BRACKET,FAN	CMD1A694	1	
29	CLAMPER , WIRE	CHE36-3	1	
30	CHASSIS,BOTTOM	CUA4A294	1	
31	FOOT A	CKL1A094	2	
32	FOOT B	CKL1A095	2	
33	CUSHION , FOOT	CHG1A373	4	
34	BRACKET,HDMI	CMD1A786	1	
35	BRACKET,FAN	CMD1A506	1	
36	PANEL,REAR	CKT4A444Z	1	
37	FRAME,BOTTOM	CMD1A702	1	
39	FRONT PCB ASS'Y	CDP12357H	1	
		39-1 FIP & KEY PCB	1	
		39-2 POWER LED PCB	1	
		39-3 VOLUME PCB	1	
		39-4 PHONE PCB	1	
		39-5		
		39-6 VIDEO PCB	1	
40				
41	MAIN PCB ASS'Y	CDP12364H	1	
			1	
42	DC-DC PCB ASS'Y	CDP12365D	1	
43	POWER PCB ASS'Y	CDP12394D	1	
		43-1 POWER PCB A	1	
		43-2 POWER PCB B	1	
		43-3 GUIDE PCB(CARD CABLE)	1	
44	INPUT PCB ASS'Y	CDP12327H	1	
45	HDMI PCB ASS'Y	CDP12328H	1	
46	VIDEO PCB ASS'Y	CDP12361H	1	
		46-1 VIDEO PCB	1	
		46-2 RS232 PCB	1	
49	FAN , MOTOR	CFNCF12825HSN	1	
50	FAN , MOTOR	CFNCF12625SA	1	
51	INLET ASS'Y	CJJ8A0062WA	2	
52	MOMS S/W ASS'Y	CSH1A0092VB	1	
53	HOLDER,PCB	CHE170	2	
54	CUSHION	CHG1A160Z	1	
55	SUPPORT,PCB	CRE1A076	2	
56	COVER , USB	CGR1A530H63	1	

NO	DESCRIPTION	PARTS NO.	Q,ty
S1	SCREW	CTB3+8JFZR	77
S2	SCREW	CTB4+6FFZR	6
S3	SCREW	CTWS3+10GR	1
S4			
S5	SCREW	CTB3+6FFZR	11
S6	SCREW	CTW3+8JR	4
S7	SCREW	CTW3+12JR	2
S8	SCREW	CTS3+8JFZR	4
S9	SCREW,TRANS	CHD1A023R	4
S10	SCREW	CHD1A012ZR	2
S11	SCREW	CHD1A012R	21
S12	SCREW	CHD3A012R	5
S13	SCREW	CHD4A012R	5
S14	SCREW, SPECIAL	CHD1A036FZR	2
S15	SCREW, SPECIAL	CHD1A036R	4
S16	SCREW, SPECIAL	CHD1A065R	2
S17	SCREW	CTB3+8JR	7

AVR 265/230 parts list

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
0,2		CGB1A236Z	BADGE , AVR265		1	EA
0,2		CGL1A222	INDICATOR , VOLUME	AVR130/230/330	1	EA
0,2		CGR1A530H63	COVER , USB		1	EA
0,2		CGU1A318Y	ORNAMENT , VOLUME AVR255		1	EA
0,2		CGU2A410A25O	WINDOW , FIP		1	EA
0,2		CGWAVR265/230	FRONT PANEL ASS'Y		1	EA
..3		CBT2A1064	KNOB , STANDBY		1	EA
..3		CBT2A1065	KNOB , BACK		1	EA
..3		CGB3A158Z	BADGE , HARMAN/KARDON (FRONT)		1	EA
..3		CGL1A265Y	INDICATOR , POWER AVR155		1	EA
..3		CGW6A447RHTB24	PANEL , FRONT AVR365		1	EA
..3		CHG1A309	RUBBER		1	EA
..3		CMC1A372	PLATE , SHIELD		2	EA
..3		CMC1A414	PLTE , EARTH USB & HDMI		1	EA
..3		CMC1A416	PLATE , EARTH TOP		2	EA
..3		CMC3A338	PLATE , EARTH		2	EA
..3		CMD1A555	BRACKET , SIDE (L)		1	EA
..3		CMD2A443	BRACKET , SIDE		1	EA
..3		CMH2A215	HOLDER , LED AVR350		1	EA
..3		CMZ1A127	FILTER , FIP AVR255		1	EA
			AVR265/230 FRONT PCB MANUAL ASS'Y			
..3		COP12357H	AVR265/230 FRONT PCB MANUAL ASS'Y		1	EA
....5	C121	CCBS1H151KBT	CAP , CERAMIC(150PF/50V)	CH UP025 B151K-A-B Z	1	EA
....5	C122	CCEA1AH331T	CAP , ELECT(10V/330uF)	KR3-10V331MB(6.3*11L)	1	EA
....5	C151	CCFT1H473ZF	CAP , CERAMIC	0.047UF 50V Z	1	EA
....5	C152	CCEA1CKS100T	CAP , ELECT(16V/10uF)-S	KC3-16V100MA2(4*5L)	1	EA
....5	C161	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
....5	C171	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
....5	C181	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
....5	C213	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
....5	C214	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
....5	C252	CCEA1HKS2R2T	CAP , ELECT(50V/2.2uF)-S	KC3-50V2R2MA2(4*5L)	1	EA
....5	C311	CCBS1H102KBT	CAP , CERAMIC(1000PF/50V)	CH UP025 B102K-A-B Z	1	EA
....5	C322	CCBS1H102KBT	CAP , CERAMIC(1000PF/50V)	CH UP025 B102K-A-B Z	1	EA
....5	C412	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
....5	C413	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C414	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C415	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
....5	C422	CCEA1HH4R7T	CAP , ELECT(50V/4.7uF)	KR3-50V4R7MA(5*11L)	1	EA
....5	C431	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
....5	C441	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
....5	C442	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
....5	C550	CCBS1H560JT	CAP , CERAMIC(56PF/50V)	CH UP025SL560J-A-B Z	1	EA
....5	C555	CCBS1H560JT	CAP , CERAMIC(56PF/50V)	CH UP025SL560J-A-B Z	1	EA
....5	C556	CCEA1AH101T	CAP , ELECT(10V/100uF)	KR3-10V101MA(5*11L)	1	EA
....5	C557	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
....5	C558	CCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V Z	1	EA
....5	C631	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
....5	C651	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
....5	C652	CCBS1H471KBT	CAP , CERAMIC(470PF/50V)	CH UP025 B471K-A-B Z	1	EA
....5	C653	CCBS1H471KBT	CAP , CERAMIC(470PF/50V)	CH UP025 B471K-A-B Z	1	EA
....5	C714	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
....5	C715	CCEA1CKS100T	CAP , ELECT(16V/10uF)-S	KC3-16V100MA2(4*5L)	1	EA
....5	C721	CCEA1HKS2R2T	CAP , ELECT(50V/2.2uF)-S	KC3-50V2R2MA2(4*5L)	1	EA
....5	C731	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C732	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
....5	C751	CCBS1C222MXT	CAP , CERAMIC(2200PF/16V)	CH EP025 B222M-A-B J	1	EA
....5	C752	CCBS1H102KBT	CAP , CERAMIC(1000PF/50V)	CH UP025 B102K-A-B Z	1	EA
....5	C753	CCBS1H102KBT	CAP , CERAMIC(1000PF/50V)	CH UP025 B102K-A-B Z	1	EA
....5	C754	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
....5	C801	CCEA1EH470T	CAP , ELECT(25V/47uF)	KR3-25V470MA(5*11L)	1	EA
....5	C802	CCEA1EH470T	CAP , ELECT(25V/47uF)	KR3-25V470MA(5*11L)	1	EA
....5	C811	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C813	CCBS1H470JT	CAP , CERAMIC(47PF/50V)	CH UP025SL470J-A-B Z	1	EA
....5	C821	CCBS1H471KBT	CAP , CERAMIC(470PF/50V)	CH UP025 B471K-A-B Z	1	EA
....5	C822	CCBS1H151KBT	CAP , CERAMIC(150PF/50V)	CH UP025 B151K-A-B Z	1	EA
....5	C823	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C830	CCBS1H473ZFT	CAP , CERAMIC(47000PF/50V)	CH UP025 F473Z-A-B J	1	EA
....5	C901	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C902	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C911	CCEA1EH470T	CAP , ELECT(25V/47uF)	KR3-25V470MA(5*11L)	1	EA
....5	C912	CCEA1EH470T	CAP , ELECT(25V/47uF)	KR3-25V470MA(5*11L)	1	EA
....5	C923	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	CH UP025 B681K-A-B Z	1	EA
....5	C924	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	CH UP025 B681K-A-B Z	1	EA
....5	C931	CCEA1CH331T	CAP , ELECT(16V/330uF)	KR3-16V331MC(8*11.5L)	1	EA
....5	C932	CCEA1CH331T	CAP , ELECT(16V/330uF)	KR3-16V331MC(8*11.5L)	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 FRONT PCB MANUAL ASS'Y			
....5	D161	HVD1N5819T	DIODE , SCHOTTKY	1N5819	1	EA
....5	D204	HVD1SS133MT	DIODE	1SS133T-77	1	EA
....5	D401	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D412	CVDZJ8.2BT	DIODE , ZENER 8.2V	ZJ8.2B 1/2W	1	EA
....5	D413	HVDMTZJ27BT	DIODE , ZENER	MTZJ27B 1/2W	1	EA
....5	D421	CVDZJ6.8BT	DIODE , ZENER 6.8V	ZJ6.8B 1/2W	1	EA
....5	D422	CVDZJ6.8BT	DIODE , ZENER 6.8V	ZJ6.8B 1/2W	1	EA
....5	D455	HVD1SS133MT	DIODE	1SS133T-77	1	EA
....5	D631	HVD1SS133MT	DIODE	1SS133T-77	1	EA
....5	D632	HVD1SS133MT	DIODE	1SS133T-77	1	EA
....5	L151	HLQ02C100KT	COIL , AXAIL (10UH)		1	EA
....5	Q104	CVTKTC1027YT	T.R , KTC1027Y	KTC1027Y/TO-92L/KEC	1	EA
....5	Q111	HVTKRA107MT	T.R , TO-92M	KRA107M	1	EA
....5	Q112	HVTKRC107MT	T.R , TO-92M	KRC107M	1	EA
....5	Q113	HVTKRC107MT	T.R , TO-92M	KRC107M	1	EA
....5	Q251	HVTKTA1271YT	T.R	KTA1271Y	1	EA
....5	Q252	HVTKRC107MT	T.R , TO-92M	KRC107M	1	EA
....5	Q721	HVTKRC107MT	T.R , TO-92M	KRC107M	1	EA
....5	Q906	HVTKRA107MT	T.R , TO-92M	KRA107M	1	EA
....5	Q907	HVTKRA107MT	T.R , TO-92M	KRA107M	1	EA
....5	Q941	HVTKTC2874BT	T.R , MUTE	KTC2874B	1	EA
....5	Q942	HVTKTC2874BT	T.R , MUTE	KTC2874B	1	EA
....5	Q943	HVTKTC2874BT	T.R , MUTE	KTC2874B	1	EA
....5	Q944	HVTKTC2874BT	T.R , MUTE	KTC2874B	1	EA
....5	Q951	HVTKRC107MT	T.R , TO-92M	KRC107M	1	EA
....5	Q952	HVTKRA107MT	T.R , TO-92M	KRA107M	1	EA
....5	Q954	HVTKRC107MT	T.R , TO-92M	KRC107M	1	EA
....5	R101	CRD20TF2200T	RES , CARBON(220 OHM, 1%)		1	EA
....5	R102	CRD20TF6800T	RES , CARBON(680 OHM, 1%)		1	EA
....5	R103	CRD20TJ334T	RES, CARBON(1/5W,330Kohm,J)		1	EA
....5	R113	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R201	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA
....5	R202	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA
....5	R203	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA
....5	R211	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA
....5	R213	CRD20TJ272T	RES, CARBON(1/5W,2.7Kohm,J)		1	EA
....5	R214	CRD20TJ272T	RES, CARBON(1/5W,2.7Kohm,J)		1	EA
....5	R251	CRD20TJ222T	RES, CARBON(1/5W,2.2Kohm,J)		1	EA
....5	R252	CRD25TJ393T	RES, CARBON(1/4W,39Kohm,J)		1	EA
....5	R312	CRD20TF1001T	RES , CARBON	1K /1/5W /F	1	EA
....5	R313	CRD20TF1501T	RES , CARBON	1.5K /1/5W /F	1	EA
....5	R314	CRD20TF1801T	RES , CARBON	1.8K /1/5W /F	1	EA
....5	R315	CRD20TF2701T	RES , CARBON	2.7K /1/5W/F	1	EA
....5	R316	CRD20TF3301T	RES , CARBON	3.3K /1/5W/F	1	EA
....5	R322	CRD20TF1001T	RES , CARBON	1K /1/5W /F	1	EA
....5	R323	CRD20TF1501T	RES , CARBON	1.5K /1/5W /F	1	EA
....5	R324	CRD20TF1801T	RES , CARBON	1.8K /1/5W /F	1	EA
....5	R325	CRD20TF2701T	RES , CARBON	2.7K /1/5W/F	1	EA
....5	R326	CRD20TF3301T	RES , CARBON	3.3K /1/5W/F	1	EA
....5	R327	CRD20TF5601T	RES , CARBON(5.6K/F)		1	EA
....5	R328	CRD20TF5601T	RES , CARBON(5.6K/F)		1	EA
....5	R401	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R402	CRD25TJ4R7T	RES, CARBON(1/4W,4.7ohm,J)		1	EA
....5	R403	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R404	CRD25TJ4R7T	RES, CARBON(1/4W,4.7ohm,J)		1	EA
....5	R411	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R412	CRD20TJ122T	RES, CARBON(1/5W,1.2Kohm,J)		1	EA
....5	R413	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R415	CRD20TJ473T	RES, CARBON(1/5W,47Kohm,J)		1	EA
....5	R431	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R432	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R550	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R555	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R556	CRD20TJ153T	RES, CARBON(1/5W,15Kohm,J)		1	EA
....5	R557	CRD20TJ153T	RES, CARBON(1/5W,15Kohm,J)		1	EA
....5	R701	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R702	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R703	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R711	CRD20TJ470T	RES, CARBON(1/5W,47ohm,J)		1	EA
....5	R712	CRD20TJ470T	RES, CARBON(1/5W,47ohm,J)		1	EA
....5	R713	CRD20TJ470T	RES, CARBON(1/5W,47ohm,J)		1	EA
....5	R721	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R722	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA
....5	R731	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R735	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R741	CRD20TJ123T	RES, CARBON(1/5W,12Kohm,J)		1	EA
....5	R742	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R801	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 FRONT PCB MANUAL ASS'Y			
....5	R802	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA
....5	R811	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R812	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R813	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R821	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R822	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R823	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R834	CRD20TJ222T	RES, CARBON(1/5W,2.2Kohm,J)		1	EA
....5	R835	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R836	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R901	CRD25TJ101T	RES, CARBON(1/4W,100ohm,J)		1	EA
....5	R902	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA
....5	R911	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA
....5	R912	CRD20TJ101T	RES, CARBON(1/5W,100ohm,J)		1	EA
....5	R921	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R922	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R923	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R924	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R925	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R926	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R931	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R932	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R933	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R934	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R935	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R936	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R941	CRD25TJ432T	RES, CARBON(1/4W,4.3Kohm,J)		1	EA
....5	R942	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R943	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R944	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R951	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R953	CRD20TJ362T	RES, CARBON(1/5W,3.6Kohm,J)		1	EA
....5	R954	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	S311	CST1A024ZT	SW , TACT		1	EA
....5	S312	CST1A024ZT	SW , TACT		1	EA
....5	S313	CST1A024ZT	SW , TACT		1	EA
....5	S314	CST1A024ZT	SW , TACT		1	EA
....5	S315	CST1A024ZT	SW , TACT		1	EA
....5	S316	CST1A024ZT	SW , TACT		1	EA
....5	S317	CST1A024ZT	SW , TACT		1	EA
....5	S318	CST1A024ZT	SW , TACT		1	EA
....5	S319	CST1A024ZT	SW , TACT		1	EA
....5	S320	CST1A024ZT	SW , TACT		1	EA
....5	S321	CST1A024ZT	SW , TACT		1	EA
....5	S322	CST1A024ZT	SW , TACT		1	EA
....5	S323	CST1A024ZT	SW , TACT		1	EA
....5	S330	CST1A024ZT	SW , TACT		1	EA
...4	BK71	CMD1A572	BRACKET , FIP		1	EA
...4	BK72	CMD1A572	BRACKET , FIP		1	EA
...4	BK73	CMD1A629	BRACKET , PCB		1	EA
...4	BN53	CWB1C005350BM001	Shield Wire ass'y		1	EA
...4	BN61	CJP06GB142ZB	PIN HEADER(6P, 2.54mm)		1	EA
...4	BN73	CJP06GB142ZB	PIN HEADER(6P, 2.54mm)		1	EA
...4	BN74	CWB1C005100BM	WIRE ASS'Y(5P, 100MM)		1	EA
...4	CN61	CJP06GA221ZB	FEMALE HEADER (6P,2.54mm) , STRAIGHT TYPE	FAS2851	1	EA
...4	CN71	CJP05GB03ZY	WAFER,YMAW025(2.5mm,ANGLE)		1	EA
...4	CN72	CJP27GA285ZN	WAFER,FPC 1.25mm,stright	1.25-2-NP	1	EA
...4	CN73	CJP06GB143ZB	FEMALE HEADER(6P, 2.54mm)		1	EA
...4	CN74	CJP05GB03ZY	WAFER,YMAW025(2.5mm,ANGLE)		1	EA
...4	C411	CCEA1JH101E	CAP , ELECT	100UF 63V	1	EA
...4	D101	CVD1L0345W31BOCT201V	L.E.D , WHITE	CVD1L0345W31BOCT201	1	EA
...4	D102	CVD30ASOGCAA-S7	L.E.D , ORANGE	T0L-30ASOGCAA-S7	1	EA
...4	D201	CVD1L0345W31BOCT201V	L.E.D , WHITE	CVD1L0345W31BOCT201	1	EA
...4	D202	CVD1L0345W31BOCT201V	L.E.D , WHITE	CVD1L0345W31BOCT201	1	EA
...4	D203	CVD1L0345W31BOCT201V	L.E.D , WHITE	CVD1L0345W31BOCT201	1	EA
...4	ET63	CMC2A325	PLATE , EARTH AVR155		1	EA
...4	FIP2	CFL162BD01GINK	V.F.D	162-BD-01GINK	1	EA
...4	IC12	CRVKSM603TE5B	SENSOR , REMOCON		1	EA
...4	IC13	CVISN74ACT04DR	I.C , HEX INVERTERS(SOIC/D-14P)	SN74ACT04DR / TEXAS INSTRUMENT	1	EA
...4	IC14	HVINJM2068MDTE1	I.C , OP AMP (JRC)	NJM2068MD-TE1	1	EA
...4	IC15	HVINJM4556AL	I.C , HEADPHONE (JRC)	NJM4556AL	1	EA
...4	JK53	CJJ9X009Z	JACK, USB		1	EA
...4	JK63	CJJ2E026Z	JACK, PHONES(6.35mm,SILVER)	PJ-612A-51/YUQIU	1	EA
...4	RL91	CSL4A016ZU	RELAY,BC3-12H,DC12V,2C2P	BC3-12H/HANDOUK	1	EA
...4	VR74	CSR2A037Z	ENCODER		1	EA
..3		CPE1A009	SHEET , BLIND		1	EA
..3		CTB3+10JR	SCREW		27	EA
..3		CTWS3+10GR	SCREW		2	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 FRONT PCB MANUAL ASS'Y			
..3	CN72	CWC4C4A27B250B08	CARD , CABLE (27P/1.25mm,/250mm)	27P/1.25MM/250MM	1	EA
0,2		CGX1A338MBC63	CAP , VOLUME		1	EA
0,2		CGX4A390C66Z	SHEET , AL FRONT AVR2650		1	EA
0,2		CKC6B145S60	CABINET , TOP AVR350		1	EA
0,2		CMH1A214	HOLDER , VOLUME	AVR130/230/330	1	EA
0,2		CMZ2A090	SHEET , VOLUME		1	EA
0,2		CQB1A549Y	LABEL , ATTENTION DVD48		1	EA
0,2		CQB1A622	LABEL , SERIAL NO		1	EA
0,2		CQB1A906Z	LABEL , HOT		1	EA
0,2		CTB3+8JFZR	SCREW		17	EA
0,2		CTB4+6FFZR	SCREW		6	EA
0,2		CUAAVR265/230	BOTTOM CHASSIS ASS'Y		1	EA
..3		CFNRDM6025S	MOTOR , FAN (60X60X25) 12V, 0.1A		1	EA
..3		CHD1A012ZR	SCREW , SPECIAL		2	EA
..3		CHD1A023R	SCREW , SPECIAL		4	EA
..3		CHD1A036FZR	SCREW , SPECIAL		2	EA
..3		CHD1A065R	SCREW , FLAT(2.6X4)		2	EA
..3		CHD4A012R	SCREW , SPECIAL		4	EA
..3		CHE170	HOLDER , PCB		2	EA
..3		CHE36-3	CLAMPER , WIRE		1	EA
..3		CHG1A113	RUBBER		3	EA
..3		CHG1A160Z	CUSHION , RUBBER		1	EA
..3		CHG1A373	CUSHION , FOOT AVR350		4	EA
..3		CHR301	CLAMPER		2	EA
..3		CHS1A032	TAPE , HEMELON		4	EA
..3		CKF4A444Z	PANEL , REAR AVR265		1	EA
..3		CKL1A094	FOOT , A AVR350		2	EA
..3		CKL1A095	FOOT , B AVR350		2	EA
..3		CMD1A506	BRACKET , FAN	AVR330/AVR4600	1	EA
..3		CMD1A702	FRAME , BOTTOM		1	EA
..3		CMD1A786	BRACKET , HDMI		1	EA
..3		CNVFS2026-020021	MODULE,VENICE6.2 (NO DAB, NO WIFI)		1	EA
..3		COP12327H	**AVR265/230 INPUT PCB ASS'Y**		1	EA
....6	C133	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C134	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C135	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C136	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C217	CCUS1H101JA	CAP, CHIP(1608, 50V/100pF)		1	EA
....6	C218	CCUS1H101JA	CAP, CHIP(1608, 50V/100pF)		1	EA
....6	C219	CCUS1H101JA	CAP, CHIP(1608, 50V/100pF)		1	EA
....6	C293	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C300	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C301	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C302	CCUS1H683KC	CAP, CHIP(1608, 50V/0.068uF)		1	EA
....6	C303	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C304	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C305	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C306	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C307	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C332	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C333	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C334	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C335	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C336	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C337	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C338	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C339	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C356	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C357	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C362	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C369	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C370	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C371	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C372	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C373	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C375	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C376	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C377	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C412	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C413	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C420	CCUS1H151JA	CAP, CHIP(1608, 50V/150pF)		1	EA
....6	C421	CCUS1H151JA	CAP, CHIP(1608, 50V/150pF)		1	EA
....6	C422	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C423	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C466	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C601	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C603	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	C605	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C607	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C609	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C611	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C613	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C615	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C617	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C619	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C621	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C623	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C625	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C627	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C629	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C631	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C641	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C643	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C644	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C645	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C646	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C648	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C651	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C652	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C653	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C654	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C655	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C656	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C658	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C660	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C704	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C705	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C714	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C718	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C719	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C722	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C723	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C727	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C729	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C731	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C733	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C737	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C738	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C739	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C741	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C745	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C746	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C747	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C748	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C751	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C754	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C756	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C757	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C758	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C759	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C760	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C761	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C762	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C763	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C765	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C773	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C780	CCUS1H102KC	CAP, CHIP(1608, 50V/1000pF)		1	EA
....6	C781	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C788	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C789	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C792	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C865	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	L101	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L604	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L704	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	RN89	CRJ104DJ103T	RES , CHIP , 10K OHM, 5% , 1608 X 4	10K(1608)	1	EA
....6	R118	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R122	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R123	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R124	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R125	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R126	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R163	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R165	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R171	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	R217	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R218	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R219	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R251	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R252	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R289	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R290	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R291	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R292	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R293	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R294	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R317	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R320	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R321	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R322	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R323	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R324	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R325	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R326	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R327	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R339	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R341	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R380	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R381	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R382	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R383	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R384	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R389	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R390	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R399	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R400	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R401	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R402	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R403	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R404	CRJ10DJ182T	RES, CHIP(1608/5%/1.8Kohm)		1	EA
....6	R406	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R407	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R424	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R425	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R448	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R460	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R465	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R466	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R471	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R700	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R713	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R717	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R718	CRJ10DF1371T	RES, CHIP(1608/1%/1.37Kohm)		1	EA
....6	R719	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R720	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R721	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R725	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R726	CRJ10DJ100T	RES, CHIP(1608/5%/10ohm)		1	EA
....6	R727	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R733	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R735	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R745	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R753	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R754	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R759	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R761	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R762	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R763	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R767	CRJ10DF5101T	RES, CHIP(1608/1%/5.1Kohm)	1608 SIZE	1	EA
....6	R785	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R788	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R795	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R797	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R812	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R834	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R835	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R836	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R837	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R857	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R858	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R863	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R866	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R870	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	R871	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R872	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R877	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R891	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R907	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R908	CRJ10DJ105T	RES, CHIP(1608/5%/1Mohm)		1	EA
....6	R910	CRJ10DJ105T	RES, CHIP(1608/5%/1Mohm)		1	EA
....6	R925	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R932	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R963	CRJ10DJ105T	RES, CHIP(1608/5%/1Mohm)		1	EA
....6	R966	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R968	CRJ10DJ105T	RES, CHIP(1608/5%/1Mohm)		1	EA
....6	R969	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....5		CIP12327HTSMD	AVR265/230 INPUT PCB TOP SMD ASS'Y		1	EA
....6		CUP12327Y	PCB , INPUT AVR400(253X160, FR4, 2LAYER)		1	EA
....6	C111	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C112	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C113	CCUS1H180JA	CAP, CHIP(1608, 50V/18pF)		1	EA
....6	C114	CCUS1H180JA	CAP, CHIP(1608, 50V/18pF)		1	EA
....6	C115	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C116	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C117	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C118	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C121	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C123	CRJ06IJ183T	RES, CHIP(1005/5%/18Kohm)		1	EA
....6	C131	CCUS1H150JA	CAP, CHIP(1608, 50V/15pF)		1	EA
....6	C132	CCUS1H150JA	CAP, CHIP(1608, 50V/15pF)		1	EA
....6	C203	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C204	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C205	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C206	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C207	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C208	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C209	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C210	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C227	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C228	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C229	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C230	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C260	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C277	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C278	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C291	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C308	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C309	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C310	CCUS1H822KC	CAP, CHIP(1608, 50V/8200pF)		1	EA
....6	C311	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C312	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C313	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C314	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C315	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C316	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C317	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C318	CCUS1H683KC	CAP, CHIP(1608, 50V/0.068uF)		1	EA
....6	C319	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C320	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C321	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C322	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C323	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C324	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C325	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C326	CCUS1H822KC	CAP, CHIP(1608, 50V/8200pF)		1	EA
....6	C327	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C328	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C329	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C330	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C331	CCUS1H391JA	CAP, CHIP(1608, 50V/390pF)		1	EA
....6	C358	CCUS1H392KC	CAP, CHIP(1608, 50V/3900pF)		1	EA
....6	C359	CCUS1H822KC	CAP, CHIP(1608, 50V/8200pF)		1	EA
....6	C363	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C364	CCUS1H392KC	CAP, CHIP(1608, 50V/3900pF)		1	EA
....6	C365	CCUS1H822KC	CAP, CHIP(1608, 50V/8200pF)		1	EA
....6	C383	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C384	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C385	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C386	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C387	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C388	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	C394	CCUS1H102KC	CAP, CHIP(1608, 50V/1000pF)		1	EA
....6	C428	CCUI1H151JA	CAP, CHIP(1005, 50V/150pF)		1	EA
....6	C442	CCUI1H151JA	CAP, CHIP(1005, 50V/150pF)		1	EA
....6	C455	CCUI1H101JA	CAP, CHIP(1005, 50V/100pF)		1	EA
....6	C456	CCUI1H151JA	CAP, CHIP(1005, 50V/150pF)		1	EA
....6	C457	CCUI1H101JA	CAP, CHIP(1005, 50V/100pF)		1	EA
....6	C458	CCUI1H151JA	CAP, CHIP(1005, 50V/150pF)		1	EA
....6	C459	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C460	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C461	CCUS1H272KC	CAP, CHIP(1608, 50V/2700pF)		1	EA
....6	C462	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C610	CCUI1H150JA	CAP, CHIP(1005, 50V/15pF)		1	EA
....6	C642	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C647	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C649	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C650	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C657	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C659	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C701	CCUS1H150JA	CAP, CHIP(1608, 50V/15pF)		1	EA
....6	C702	CCUS1H150JA	CAP, CHIP(1608, 50V/15pF)		1	EA
....6	C707	CCUI1H102KC	CAP, CHIP(1005, 50V/1000pF)		1	EA
....6	C708	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C725	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C734	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C742	CCUS1H300JA	CAP, CHIP(1608, 50V/30pF)		1	EA
....6	C743	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C744	CCUS1H330JA	CAP, CHIP(1608, 50V/33pF)		1	EA
....6	C767	CCUS1A105KC	CAP, CHIP(1608, 10V/1uF)		1	EA
....6	C768	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C769	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C770	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C772	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C776	CCUI1H150JA	CAP, CHIP(1005, 50V/15pF)		1	EA
....6	C778	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C790	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C791	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C794	CCUI1H181JA	CAP, CHIP(1005, 50V/180pF)		1	EA
....6	C795	CCUI1H181JA	CAP, CHIP(1005, 50V/180pF)		1	EA
....6	C797	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C798	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C801	CCUS1H180JA	CAP, CHIP(1608, 50V/18pF)		1	EA
....6	C802	CCUS1H180JA	CAP, CHIP(1608, 50V/18pF)		1	EA
....6	C820	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C830	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C831	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C832	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C833	CCUI1H101JA	CAP, CHIP(1005, 50V/100pF)		1	EA
....6	C834	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C835	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C836	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C837	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C838	CCUS1H180JA	CAP, CHIP(1608, 50V/18pF)		1	EA
....6	C839	CCUS1H150JA	CAP, CHIP(1608, 50V/15pF)		1	EA
....6	C840	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C841	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C842	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C843	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C846	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C860	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C864	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C866	CCUS1H330JA	CAP, CHIP(1608, 50V/33pF)		1	EA
....6	C867	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	D201	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D202	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D203	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D204	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D205	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D206	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D301	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D302	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D726	HVDRB160L60TE25	DIODE , SCHOTTKEY BARRIER HK	RB160L-60TE25	1	EA
....6	D805	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D806	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	IC101	CVIR2A15218FP	I.C , INPUT WITH 8CH VOLUME(100P QFP)		1	EA
....6	IC104	HVINJM2115MDTE1	IC, OP AMP		1	EA
....6	IC105	HVINJM2115MDTE1	IC, OP AMP		1	EA
....6	IC106	CVIANAM1620AV	I.C , DSP-ROM1(AVR265/365 , ST25VF080B504CS2F)		1	EA
....7	IC106	CVIST25VF080B504CS2F	I.C , 8 Mbit SPI Serial Flash	SST25VF080B-50-4C-S2AF	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	IC107	CVIANAM1621AV	I.C , DSP-ROM2(AVR265/365 , ST25VF080B504CS2F)		1	EA
....7	IC107	CVIST25VF080B504CS2F	I.C , 8 Mbit SPI Serial Flash	SST25VF080B-50-4C-S2AF	1	EA
....6	IC111	CVIAZ4580MTR-E1	I.C , OPAMP(DUAL LOW NOISE)	AZ4580MTR-E1/SOIC8/BCD	1	EA
....6	IC112	CVIAZ4580MTR-E1	I.C , OPAMP(DUAL LOW NOISE)	AZ4580MTR-E1/SOIC8/BCD	1	EA
....6	IC113	CVIAZ4580MTR-E1	I.C , OPAMP(DUAL LOW NOISE)	AZ4580MTR-E1/SOIC8/BCD	1	EA
....6	IC114	CVIAZ4580MTR-E1	I.C , OPAMP(DUAL LOW NOISE)	AZ4580MTR-E1/SOIC8/BCD	1	EA
....6	IC122	CVIAZ4580MTR-E1	I.C , OPAMP(DUAL LOW NOISE)	AZ4580MTR-E1/SOIC8/BCD	1	EA
....6	IC125	CVIAZ4580MTR-E1	I.C , OPAMP(DUAL LOW NOISE)	AZ4580MTR-E1/SOIC8/BCD	1	EA
....6	IC131	CVIBD3812F	I.C , VIDEO 2CH		1	EA
....6	IC132	CVIAZ4580MTR-E1	I.C , OPAMP(DUAL LOW NOISE)	AZ4580MTR-E1/SOIC8/BCD	1	EA
....6	IC140	CVITC74HC151AFN	I.C , 8 CHANNEL MULTIPLEXER(SOL16-P-150-1.27)	TC74HC151AFN	1	EA
....6	IC141	CVICS497024CVZ	I.C , DSP (CIRRUS LOGIC)		1	EA
....6	IC142	CVICS49DV8CCVZ	I.C , DSP (DOLBY VOLUME) CIRRUS LOGIC		1	EA
....6	IC143	HVICS42528-CQ	I.C , CODEC + DIR (CIRRUS LOGIC)	CS42528-CQ	1	EA
....6	IC144	CVIM12L16161A5TG	I.C , 16MB SDRAM (ESMT)		1	EA
....6	IC145	HVITC74VHC157FT	I.C , 2-CHANNEL MUX (TOSHIBA)		1	EA
....6	IC146	CVITC74VCX541FT	I,C , OCTAL BUS BUFFER (TOSHIBA)		1	EA
....6	IC147	CVITC74VHC153FT	I.C DUAL 4-CH MUX		1	EA
....6	IC148	HVINJM2391DL133	I.C , CHIP REGULATOR (+3.3V) JRC		1	EA
....6	IC149	HVILM1117S-1V8	I.C , REGULATOR (1.8V)	LM1117-1V8	1	EA
....6	IC150	HVILM1117S-1V8	I.C , REGULATOR (1.8V)	LM1117-1V8	1	EA
....6	IC151	CVIANAM1548AV	I,C , U-COM (CVIT5CN5, AVR265/365)		1	EA
....7	IC151	CVIT5CN5	I.C , U-COM (512KB/32KB, LQFP100P) TOSHIBA		1	EA
....6	IC152	CVIM24C32WMN6TP	I.C , EEPROM (32 Kbit) ST		1	EA
....6	IC154	CVIANAM1619AV	I.C , SUB U-COM(AVR265/365 , TMPM330FWFG)		1	EA
....7	IC154	CVITMPM330FWFG	I.C , U-COM (TOSHIBA,128KB/8KB,LQFP-100P)	TMPM330FWFG	1	EA
....6	IC155	CVTUPA672T	F.E.T (NEC)		1	EA
....6	IC156	CVIKIC3201S-33	I.C , REGULATOR (3V3)	KIC3201S-33(SOT-89)	1	EA
....6	IC158	HVILM1117S-3V3	I.C , REGULATOR (3.3V)	1117S-3.3V	1	EA
....6	IC159	HVI74HCU04AFNG	I.C , INVERTER (TOSHIBA)	TC74HCU04AFNG(TOSHIBA)	1	EA
....6	IC161	CVIKSZ8851SNLTR	I.C , ETHERNET PHY (10/100M,QFN-32P))		1	EA
....6	IC162	CVIANAM1549AV	IC, USB U-COM(CVITMP92FD28FG, AVR265/365)		1	EA
....7	IC162	CVITMP92FD28FG	I.C , USB DECODER FLASH(100PIN, QFP) TOSHIBA	TMP92FD28DFG, FLASH	1	EA
....6	IC164	CVIML61C282PR	I.C , RESET (2.8V , SOT-89)	ML61C282PRG	1	EA
....6	IC167	CVIKIA78R000F	I.C , REGULATOR (ADJ, DPAK-5)		1	EA
....6	IC168	CVIRT9702APB	IC , CURRENT LIMITER		1	EA
....6	L601	CLZ9R001Z	FERRITE , CHIP BEAD(60ohm, 2012)	HCB2012KF-600T40	1	EA
....6	L602	CLZ9R001Z	FERRITE , CHIP BEAD(60ohm, 2012)	HCB2012KF-600T40	1	EA
....6	L701	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L702	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L703	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L705	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L706	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L715	CLZ9R001Z	FERRITE , CHIP BEAD(60ohm, 2012)	HCB2012KF-600T40	1	EA
....6	L802	CLZ9R001Z	FERRITE , CHIP BEAD(60ohm, 2012)	HCB2012KF-600T40	1	EA
....6	L803	CLZ9R001Z	FERRITE , CHIP BEAD(60ohm, 2012)	HCB2012KF-600T40	1	EA
....6	L804	CLZ9R001Z	FERRITE , CHIP BEAD(60ohm, 2012)	HCB2012KF-600T40	1	EA
....6	L805	CLZ9R001Z	FERRITE , CHIP BEAD(60ohm, 2012)	HCB2012KF-600T40	1	EA
....6	L806	CLZ9R001Z	FERRITE , CHIP BEAD(60ohm, 2012)	HCB2012KF-600T40	1	EA
....6	L807	CLZ9R001Z	FERRITE , CHIP BEAD(60ohm, 2012)	HCB2012KF-600T40	1	EA
....6	Q101	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q102	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q103	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q105	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q301	HVTKTC812TB	T.R , CHIP(TS6)	KTC812T-B-RTK	1	EA
....6	Q302	HVTKTC812TB	T.R , CHIP(TS6)	KTC812T-B-RTK	1	EA
....6	Q303	HVTKTC812TB	T.R , CHIP(TS6)	KTC812T-B-RTK	1	EA
....6	Q304	HVTKTC812TB	T.R , CHIP(TS6)	KTC812T-B-RTK	1	EA
....6	Q305	HVTKTC812TB	T.R , CHIP(TS6)	KTC812T-B-RTK	1	EA
....6	Q306	HVTKTC812TB	T.R , CHIP(TS6)	KTC812T-B-RTK	1	EA
....6	Q307	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q308	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q402	HVTKTC812TB	T.R , CHIP(TS6)	KTC812T-B-RTK	1	EA
....6	Q729	HVTKRC107S	T.R , CHIP , SOT-23		1	EA
....6	Q730	HVTKRC107S	T.R , CHIP , SOT-23		1	EA
....6	Q732	HVTKRC107S	T.R , CHIP , SOT-23		1	EA
....6	Q734	HVTKRC107S	T.R , CHIP , SOT-23		1	EA
....6	Q738	CVTKRC103S	T.R , CHIP , SOT-23		1	EA
....6	Q741	HVTKRC107S	T.R , CHIP , SOT-23		1	EA
....6	Q742	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q951	HVTKRC107S	T.R , CHIP , SOT-23		1	EA
....6	Q952	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q991	HVTKRC107S	T.R , CHIP , SOT-23		1	EA
....6	Q992	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q993	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q994	HVTKRC107S	T.R , CHIP , SOT-23		1	EA
....6	Q997	HVTKRA107S	T.R , CHIP , SOT-23		1	EA
....6	Q998	HVTKRC107S	T.R , CHIP , SOT-23		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	RN53	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN54	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN60	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN61	CRJ104DJ103T	RES , CHIP , 10K OHM, 5% , 1608 X 4	10K(1608)	1	EA
....6	RN63	CRJ104DJ103T	RES , CHIP , 10K OHM, 5% , 1608 X 4	10K(1608)	1	EA
....6	RN64	CRJ064IJ101T	RES, CHIP(1005/5%/100ohm*4)		1	EA
....6	RN65	CRJ064IJ101T	RES, CHIP(1005/5%/100ohm*4)		1	EA
....6	RN66	CRJ064IJ101T	RES, CHIP(1005/5%/100ohm*4)		1	EA
....6	RN67	CRJ064IJ101T	RES, CHIP(1005/5%/100ohm*4)		1	EA
....6	RN68	CRJ104DJ103T	RES , CHIP , 10K OHM, 5% , 1608 X 4	10K(1608)	1	EA
....6	RN71	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN76	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN77	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN78	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN79	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN81	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN82	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN83	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN84	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN85	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN87	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN90	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN91	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN93	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	R110	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R111	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R112	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R113	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R114	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R115	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R116	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R117	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R121	CRJ10DJ105T	RES, CHIP(1608/5%/1Mohm)		1	EA
....6	R141	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R142	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R149	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R150	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R151	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R152	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R156	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R158	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R161	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R162	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R166	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R167	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R172	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R173	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R174	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R201	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R202	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R203	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R204	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R205	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R206	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R207	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R208	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R209	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R210	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R229	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R230	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R231	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R232	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R233	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R234	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R235	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R236	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R237	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R238	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R239	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R240	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R241	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R242	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R243	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R247	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R248	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R249	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R250	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R258	CRJ10DJ4R7T	RES, CHIP(1608/5%/4.7ohm)	1608 SIZE	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	R259	CRJ10DJ4R7T	RES, CHIP(1608/5%/4.7ohm)	1608 SIZE	1	EA
....6	R260	CRJ10DJ4R7T	RES, CHIP(1608/5%/4.7ohm)	1608 SIZE	1	EA
....6	R263	CRJ10DJ184T	RES, CHIP(1608/5%/180Kohm)		1	EA
....6	R264	CRJ10DJ184T	RES, CHIP(1608/5%/180Kohm)		1	EA
....6	R265	CRJ10DJ184T	RES, CHIP(1608/5%/180Kohm)		1	EA
....6	R266	CRJ10DJ184T	RES, CHIP(1608/5%/180Kohm)		1	EA
....6	R267	CRJ10DJ184T	RES, CHIP(1608/5%/180Kohm)		1	EA
....6	R268	CRJ10DJ184T	RES, CHIP(1608/5%/180Kohm)		1	EA
....6	R274	CRJ10DJ222T	RES, CHIP(1608/5%/2.2Kohm)		1	EA
....6	R281	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R282	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R283	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R284	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R285	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R286	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R287	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R288	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R295	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R296	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R297	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R298	CRJ10DJ563T	RES, CHIP(1608/5%/56Kohm)		1	EA
....6	R300	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R301	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R302	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R303	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R304	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R305	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R306	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R307	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R308	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R309	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R310	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R311	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R312	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R313	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R314	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R315	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R316	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R319	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R328	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R329	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R330	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R331	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R332	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R333	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R334	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R335	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R336	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R337	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R338	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R340	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R342	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R343	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R344	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R345	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R346	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R347	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R348	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R349	CRJ10DJ682T	RES, CHIP(1608/5%/6.8Kohm)		1	EA
....6	R350	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R351	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R352	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R353	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R354	CRJ10DJ301T	RES, CHIP(1608/5%/300ohm)		1	EA
....6	R355	CRJ10DJ273T	RES, CHIP(1608/5%/27Kohm)		1	EA
....6	R356	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R357	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R358	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R359	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R360	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R361	CRJ10DJ152T	RES, CHIP(1608/5%/1.5Kohm)		1	EA
....6	R362	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R363	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R364	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R365	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R366	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R367	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R368	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	R369	CRJ10DJ301T	RES, CHIP(1608/5%/300ohm)		1	EA
....6	R370	CRJ10DJ273T	RES, CHIP(1608/5%/27Kohm)		1	EA
....6	R371	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R372	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R373	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R374	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R375	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R376	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R377	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R378	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R379	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R385	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R386	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R387	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R388	CRJ10DJ561T	RES, CHIP(1608/5%/560ohm)		1	EA
....6	R391	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R392	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R393	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R395	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R396	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R397	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R398	CRJ10DJ392T	RES, CHIP(1608/5%/3.9Kohm)		1	EA
....6	R408	CRJ10DJ105T	RES, CHIP(1608/5%/1Mohm)		1	EA
....6	R410	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R411	CRJ10DJ272T	RES, CHIP(1608/5%/2.7Kohm)	1608 SIZE	1	EA
....6	R412	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R413	CRJ10DJ272T	RES, CHIP(1608/5%/2.7Kohm)	1608 SIZE	1	EA
....6	R414	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R415	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R416	CRJ10DJ272T	RES, CHIP(1608/5%/2.7Kohm)	1608 SIZE	1	EA
....6	R417	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R418	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R419	CRJ10DJ272T	RES, CHIP(1608/5%/2.7Kohm)	1608 SIZE	1	EA
....6	R420	CRJ06IJ101T	RES, CHIP(1005/5%/100ohm)		1	EA
....6	R421	CRJ06IJ101T	RES, CHIP(1005/5%/100ohm)		1	EA
....6	R422	CRJ06IJ101T	RES, CHIP(1005/5%/100ohm)		1	EA
....6	R423	CRJ06IJ101T	RES, CHIP(1005/5%/100ohm)		1	EA
....6	R452	CRJ06IJ563T	RES, CHIP(1005/5%/56Kohm)		1	EA
....6	R454	CRJ10DJ562T	RES, CHIP(1608/5%/5.6Kohm)		1	EA
....6	R455	CRJ10DJ122T	RES, CHIP(1608/5%/1.2Kohm)		1	EA
....6	R456	CRJ10DJ562T	RES, CHIP(1608/5%/5.6Kohm)		1	EA
....6	R461	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R462	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R463	CRJ06IJ561T	RES, CHIP(1005/5%/560ohm)		1	EA
....6	R464	CRJ06IJ561T	RES, CHIP(1005/5%/560ohm)		1	EA
....6	R472	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R473	CRJ06IJ563T	RES, CHIP(1005/5%/56Kohm)		1	EA
....6	R474	CRJ10DJ122T	RES, CHIP(1608/5%/1.2Kohm)		1	EA
....6	R601	CRJ06IJ101T	RES, CHIP(1005/5%/100ohm)		1	EA
....6	R602	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R603	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R604	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R605	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R606	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R607	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R610	CRJ10DF5101T	RES, CHIP(1608/1%/5.1Kohm)	1608 SIZE	1	EA
....6	R611	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R612	CRJ06IJ820T	RES, CHIP(1005/5%/82ohm)		1	EA
....6	R613	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R614	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R615	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R616	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R619	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R620	CRJ06IJ750T	RES, CHIP(1005/5%/75ohm)		1	EA
....6	R621	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R622	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R701	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R702	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R706	CRJ10DJ221T	RES, CHIP(1608/5%/220ohm)		1	EA
....6	R707	CRJ10DJ221T	RES, CHIP(1608/5%/220ohm)		1	EA
....6	R709	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R710	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R711	CRJ06IJ560T	RES, CHIP(1005/5%/56ohm)		1	EA
....6	R712	CRJ06IJ820T	RES, CHIP(1005/5%/82ohm)		1	EA
....6	R714	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R715	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R722	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R723	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	R724	CRJ06IJ101T	RES, CHIP(1005/5%/100ohm)		1	EA
....6	R728	CRJ06IJ102T	RES, CHIP(1005/5%/1Kohm)		1	EA
....6	R729	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R730	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R732	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R734	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R737	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R739	CRJ06IJ820T	RES, CHIP(1005/5%/82ohm)		1	EA
....6	R741	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R742	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R743	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R746	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R748	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R749	CRJ06IJ750T	RES, CHIP(1005/5%/75ohm)		1	EA
....6	R750	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R751	CRJ06IJ820T	RES, CHIP(1005/5%/82ohm)		1	EA
....6	R752	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R755	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R756	CRJ06IJ750T	RES, CHIP(1005/5%/75ohm)		1	EA
....6	R757	CRJ06IJ750T	RES, CHIP(1005/5%/75ohm)		1	EA
....6	R760	CRJ10DJ105T	RES, CHIP(1608/5%/1Mohm)		1	EA
....6	R764	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R765	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R766	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R768	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R769	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R773	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R774	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R775	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R776	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R777	CRJ06IJ101T	RES, CHIP(1005/5%/100ohm)		1	EA
....6	R778	CRJ06IJ221T	RES, CHIP(1005/5%/220ohm)		1	EA
....6	R782	CRJ10DJ272T	RES, CHIP(1608/5%/2.7Kohm)	1608 SIZE	1	EA
....6	R783	CRJ10DJ272T	RES, CHIP(1608/5%/2.7Kohm)	1608 SIZE	1	EA
....6	R784	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R786	CRJ10DJ471T	RES, CHIP(1608/5%/470ohm)		1	EA
....6	R787	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R789	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R790	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R791	CRJ10DJ273T	RES, CHIP(1608/5%/27Kohm)		1	EA
....6	R792	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R798	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R799	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R800	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R801	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R802	CRJ06IJ105T	RES, CHIP(1005/5%/1Mohm)		1	EA
....6	R803	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R806	CRJ10DJ474T	RES, CHIP(1608/5%/470Kohm)		1	EA
....6	R807	CRJ10DJ474T	RES, CHIP(1608/5%/470Kohm)		1	EA
....6	R810	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R811	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R815	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R816	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R820	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R821	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R822	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R823	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R824	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R825	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R826	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R827	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R828	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R832	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R833	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R838	CRJ10DF49R9T	RES, CHIP(1608/1%/49.9ohm)		1	EA
....6	R839	CRJ10DF49R9T	RES, CHIP(1608/1%/49.9ohm)		1	EA
....6	R840	CRJ10DF49R9T	RES, CHIP(1608/1%/49.9ohm)		1	EA
....6	R841	CRJ10DF49R9T	RES, CHIP(1608/1%/49.9ohm)		1	EA
....6	R842	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R843	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R848	CRJ10DJ100T	RES, CHIP(1608/5%/10ohm)		1	EA
....6	R849	CRJ10DJ100T	RES, CHIP(1608/5%/10ohm)		1	EA
....6	R852	CRJ10DJ4R7T	RES, CHIP(1608/5%/4.7ohm)	1608 SIZE	1	EA
....6	R853	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R854	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R855	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R856	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R860	CRJ10DJ272T	RES, CHIP(1608/5%/2.7Kohm)	1608 SIZE	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....6	R861	CRJ10DJ100T	RES, CHIP(1608/5%/10ohm)		1	EA
....6	R862	CRJ10DJ301T	RES, CHIP(1608/5%/300ohm)		1	EA
....6	R864	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R869	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R880	CRJ10DJ100T	RES, CHIP(1608/5%/10ohm)		1	EA
....6	R890	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R909	CRJ10DJ153T	RES, CHIP(1608/5%/15Kohm)		1	EA
....6	R921	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R922	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R960	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R967	CRJ10DJ153T	RES, CHIP(1608/5%/15Kohm)		1	EA
....6	R992	CRJ10DJ153T	RES, CHIP(1608/5%/15Kohm)		1	EA
....6	WF104	CJP17GA193ZY	WAFER, CARD CABLE (SMD)		1	EA
....6	WF105	CJP17GA193ZY	WAFER, CARD CABLE (SMD)		1	EA
....5	C137	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C138	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C231	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C232	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C233	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C234	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C235	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C236	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C237	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C238	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C281	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C282	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C283	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C284	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C285	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C286	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C287	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C288	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C292	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C294	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C295	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C296	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C297	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C298	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C340	CCEA1HH220T	CAP , ELECT(50V/22uF)	KR3-50V220MA(5*11L)	1	EA
....5	C341	CCEA1HH220T	CAP , ELECT(50V/22uF)	KR3-50V220MA(5*11L)	1	EA
....5	C342	CCEA1HH220T	CAP , ELECT(50V/22uF)	KR3-50V220MA(5*11L)	1	EA
....5	C343	CCEA1HH220T	CAP , ELECT(50V/22uF)	KR3-50V220MA(5*11L)	1	EA
....5	C344	CCEA1HH220T	CAP , ELECT(50V/22uF)	KR3-50V220MA(5*11L)	1	EA
....5	C345	CCEA1HH220T	CAP , ELECT(50V/22uF)	KR3-50V220MA(5*11L)	1	EA
....5	C346	CCEA1HH220T	CAP , ELECT(50V/22uF)	KR3-50V220MA(5*11L)	1	EA
....5	C347	CCEA1HH220T	CAP , ELECT(50V/22uF)	KR3-50V220MA(5*11L)	1	EA
....5	C361	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C374	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C389	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C390	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C414	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C415	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C429	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C430	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C441	CCEA1EH101T	CAP , ELECT(25V/100uF)	KR3-25V101MB(6.3*11L)	1	EA
....5	C452	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C453	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C454	CCEA1EH101T	CAP , ELECT(25V/100uF)	KR3-25V101MB(6.3*11L)	1	EA
....5	C463	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C464	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C465	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C612	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C614	CCEA1CKS101T	CAP , ELECT(16V/100uF)-S	KC3-16V101MA5(6.3*5L)	1	EA
....5	C628	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C630	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C703	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C706	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C717	CCEA1HH4R7T	CAP , ELECT(50V/4.7uF)	KR3-50V4R7MA(5*11L)	1	EA
....5	C720	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C721	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C726	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C728	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C730	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C735	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C740	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C749	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C750	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C752	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 INPUT PCB ASS'Y			
....5	C753	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C764	CCEA0JH102T	CAP , ELECT(1000uF/6.3V)	1000UF 6.3V	1	EA
....5	C786	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C787	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C799	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C844	CCEA1CKS101T	CAP , ELECT(16V/100uF)-S	KC3-16V101MA5(6.3*5L)	1	EA
....5	C845	CCEA1HKS1R0T	CAP , ELECT(50V/1uF)-S	KC3-50V010MA2(4*5L)	1	EA
....5	C847	CCEA1CKS101T	CAP , ELECT(16V/100uF)-S	KC3-16V101MA5(6.3*5L)	1	EA
....5	C861	CCEA1CKS100T	CAP , ELECT(16V/10uF)-S	KC3-16V100MA2(4*5L)	1	EA
....5	C862	CCEA1CKS101T	CAP , ELECT(16V/100uF)-S	KC3-16V101MA5(6.3*5L)	1	EA
....5	C863	CCEA1CKS101T	CAP , ELECT(16V/100uF)-S	KC3-16V101MA5(6.3*5L)	1	EA
....5	C868	CCEA1EH470T	CAP , ELECT(25V/47uF)	KR3-25V470MA(5*11L)	1	EA
....5	D221	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
....5	D222	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
....5	D803	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
....5	D804	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
....5	Q311	HVTKTC2874BT	T.R , MUTE	KTC2874B	1	EA
...4	BN52	CWB1C005200EN	WIRE ASS'Y(5P, 200MM, 2.0MM)	5P, 2.0MM, 200MM	1	EA
...4	CN11	CJP06GA19ZY	WAFER,20017WS(2mm,STRAIGHT)		1	EA
...4	CN19	CJP06GA19ZY	WAFER,20017WS(2mm,STRAIGHT)		1	EA
...4	CN20	CJP11GI237ZW	LOCK-WAFER/STRAIGHT/2.5mm	JWT A2512WV0-NP	1	EA
...4	CN51	CJP05GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN62	CJP64GA221ZB	WAFER , 2.54MM 64PIN WAFER		1	EA
...4	CN71	CJP18GB143ZB	FEMALE HEADER (18P, 2.54mm) , ANGLE TYPE		1	EA
...4	C732	CCEA0JKR3222E	CAP , ELECT(2200uF/6.3V)		1	EA
...4	ET70	CMD1A569	BRACKET , PCB		1	EA
...4	IC102	HVIKIA7808API	I.C,REGULATOR(+8V,T0220IS)	KIA7808API (KEC)	1	EA
...4	IC103	CVIKIA7908PI	I.C,REGULATOR(-8V,T0220IS)	KIA7908PI (KEC)	1	EA
...4	JK11	CJJ4P019W	JACK , RCA		1	EA
...4	JK12	CJJ4R020W	JACK , BOARD		1	EA
...4	JK52	CJJ9L015Z	JACK , RJ-45(WITH FILTER)	TM00640	1	EA
...4	JK75	HJSTORX147L	MODULE , OPTICAL (RX,3.3V)		1	EA
...4	JK76	HJSTORX147L	MODULE , OPTICAL (RX,3.3V)		1	EA
...4	JK78	CJJ4N075Z	JACK , 2P(GOLD PLATE)	RCA-215AG-01	1	EA
...4	JK79	HJSTOTX177AL	MODULE , OPTICAL(TX)		1	EA
...4	L301	CLM4B001Z	COIL , MPX(FM 19KHz FILTER)		1	EA
...4	L302	CLM4B001Z	COIL , MPX(FM 19KHz FILTER)		1	EA
...4	TUN1	CNVMW104MV1S63A	TUNER(EUR) FM, AM, RDS(S/LAB)	KST-MW104MV1-S63A	1	EA
...4	WF101	CJP27GA285ZN	WAFER,FPC 1.25mm,stright	1.25-2-NP	1	EA
...4	WF103	CJP27GA285ZN	WAFER,FPC 1.25mm,stright	1.25-2-NP	1	EA
...4	X701	HOX24576E150TF	CRYSTAL, 24.576MHz, HC-49/S, 15pF, 30PPM	24.576MHZ	1	EA
...4	X702	HOX10000E220TF	CRYSTAL, 10.000MHz, HC-49/S, 22pF, 30PPM	CL-22P	1	EA
...4	X703	COX09000E150C	CRYSTAL, 09.000MHz, HC-49/S, 15pF, 30PPM		1	EA
...4	X705	HOX10000E220TF	CRYSTAL, 10.000MHz, HC-49/S, 22pF, 30PPM	CL-22P	1	EA
...4	X708	HOX00032K120I	CRYSTAL, 32.768KHz, TUNING FORK, 12pF, 20PPM	TUNING FORK	1	EA
...4	X777	COX25000E180C	CRYSTAL, 25.000MHz, HC-49/S, 18pF, 25PPM		1	EA
..3		COP12328H	**AVR265/230 HDMI PCB ASS'Y**		1	EA
....6	CN104	CJP17GB210ZY	WAFER, (CARD CABLE,ANGLE, SMT, 1MM,10008HR-17L(P)	10008HR-17L	1	EA
....6	CN105	CJP17GB210ZY	WAFER, (CARD CABLE,ANGLE, SMT, 1MM,10008HR-17L(P)	10008HR-17L	1	EA
....6	C101	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C102	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C104	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C105	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C106	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C107	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C108	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C109	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C110	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C111	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C113	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C115	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C116	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C117	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C118	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C119	CCUC0J106KC	CAP, CHIP(2012, 6.3V/10uF)		1	EA
....6	C120	CCUC0J106KC	CAP, CHIP(2012, 6.3V/10uF)		1	EA
....6	C121	CCUC0J106KC	CAP, CHIP(2012, 6.3V/10uF)		1	EA
....6	C122	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C123	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C124	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C125	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C126	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C127	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C128	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C129	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C130	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C131	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 HDMI PCB ASS'Y			
....6	C132	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C133	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C134	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C135	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C136	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C137	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C138	CCUC0J106KC	CAP, CHIP(2012, 6.3V/10uF)		1	EA
....6	C140	CCUC0J106KC	CAP, CHIP(2012, 6.3V/10uF)		1	EA
....6	C141	CCUC0J106KC	CAP, CHIP(2012, 6.3V/10uF)		1	EA
....6	C142	CCUC0J106KC	CAP, CHIP(2012, 6.3V/10uF)		1	EA
....6	C152	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C153	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C154	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C156	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C158	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C159	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C160	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C161	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C162	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C163	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C164	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C165	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C166	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C168	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C169	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C171	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C172	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C173	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C174	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C175	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C176	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C177	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C178	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C179	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C180	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C181	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C183	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C184	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C186	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C187	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C188	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C189	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C191	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C192	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C193	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C194	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C195	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C196	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C197	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C198	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C200	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C201	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C202	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C203	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C204	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C206	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C208	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C211	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C212	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C213	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C214	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C216	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C217	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C218	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C219	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C220	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C221	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C222	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C223	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C224	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C225	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C227	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C229	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C230	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C231	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C232	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C233	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C234	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 HDMI PCB ASS'Y			
....6	C235	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C236	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C237	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C238	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C239	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C243	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C244	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C245	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C246	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C248	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C249	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C250	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C251	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C255	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C256	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C257	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C258	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C259	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C263	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C264	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C266	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C267	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C268	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C269	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C270	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C271	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C274	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C275	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C276	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C277	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C280	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C283	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C284	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C285	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C287	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C288	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C289	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C290	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C295	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C296	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C297	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C298	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C300	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C301	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C302	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C303	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C305	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C306	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C307	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C308	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C309	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C310	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C312	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C314	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C315	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C316	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C317	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C318	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C320	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C322	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C323	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C324	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C325	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C326	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C328	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C329	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C330	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C331	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C332	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C333	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C334	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C335	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C336	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C337	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C338	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C339	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C340	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C342	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 HDMI PCB ASS'Y			
....6	C343	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C344	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C345	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C346	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C348	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C349	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C351	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C352	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C353	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C354	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C355	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C357	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C358	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C359	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C361	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C362	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C363	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C364	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C366	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C367	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C369	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C370	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C371	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C372	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C373	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C375	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C376	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C378	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C379	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C380	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C381	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C382	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C383	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C384	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C385	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C386	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C387	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C388	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C390	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C391	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C392	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C393	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C394	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C395	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C396	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C398	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C399	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C403	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C406	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C408	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C409	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C411	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C413	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C415	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C418	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C419	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C420	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C423	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C425	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C426	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C427	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C429	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C430	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C436	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C438	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C440	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C442	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C443	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C445	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C446	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C450	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C453	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C454	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C455	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C457	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C460	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C462	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C464	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 HDMI PCB ASS'Y			
....6	C467	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C468	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C470	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C471	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C475	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C479	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C480	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C482	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C483	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C490	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C491	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C498	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C501	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C508	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C514	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C516	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C519	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C522	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C523	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C525	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C529	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C530	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C532	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C533	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C536	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C537	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C538	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C545	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C546	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C547	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C549	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C551	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C552	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C553	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C555	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	D905	HVDUDZS5.1BSR	DIODE , ZENER (CHIP,5.1V)		1	EA
....6	IC910	HVIKIC7SZ08FU	I.C ,INPUT AND GATE (USV PACKAGE)	KIC7SZ08FU-RTK	1	EA
....6	L803	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L804	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L805	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L806	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L807	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L812	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L813	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L816	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L818	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L819	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L820	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L821	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L822	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L823	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L824	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L825	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L826	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L827	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L828	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L829	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L830	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L831	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L832	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L833	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L835	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L837	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L838	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L840	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L841	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L843	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L844	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L847	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L857	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L861	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L864	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	Q913	CVTKRC103S	T.R , CHIP , SOT-23		1	EA
....6	Q914	CVTKRC103S	T.R , CHIP , SOT-23		1	EA
....6	Q915	CVTKRC103S	T.R , CHIP , SOT-23		1	EA
....6	Q916	CVTUPA672T	F.E.T (NEC)		1	EA
....6	RN13	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN32	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 HDMI PCB ASS'Y			
....6	RN36	CRJ064IJ0R0T	RES, CHIP(1005/5%/0ohm*4)		1	EA
....6	RN40	CRJ064IJ0R0T	RES, CHIP(1005/5%/0ohm*4)		1	EA
....6	RN41	CRJ064IJ0R0T	RES, CHIP(1005/5%/0ohm*4)		1	EA
....6	RN45	CRJ064IJ0R0T	RES, CHIP(1005/5%/0ohm*4)		1	EA
....6	RN47	CRJ064IJ103T	RES, CHIP(1005/5%/10Kohm*4)		1	EA
....6	RN50	CRJ064IJ0R0T	RES, CHIP(1005/5%/0ohm*4)		1	EA
....6	RN52	CRJ062IJ330T	RES, CHIP(1005/5%/33ohm*2)		1	EA
....6	RN82	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN83	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN84	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN85	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN86	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN87	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN88	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN89	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN90	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN91	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	R602	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R603	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R605	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R608	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R609	CRJ10DJ222T	RES, CHIP(1608/5%/2.2Kohm)		1	EA
....6	R612	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R614	CRJ10DJ222T	RES, CHIP(1608/5%/2.2Kohm)		1	EA
....6	R615	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R619	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R622	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R623	CRJ10DJ222T	RES, CHIP(1608/5%/2.2Kohm)		1	EA
....6	R624	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R629	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R631	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R634	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R637	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R639	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R648	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R652	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R656	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R657	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R660	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R663	CRJ10DJ510T	RES, CHIP(1608/5%/51ohm)		1	EA
....6	R664	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R667	CRJ10DJ510T	RES, CHIP(1608/5%/51ohm)		1	EA
....6	R668	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R670	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R672	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R674	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R675	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R677	CRJ06IJ271T	RES, CHIP(1005/5%/270ohm)		1	EA
....6	R678	CRJ10DJ510T	RES, CHIP(1608/5%/51ohm)		1	EA
....6	R681	CRJ06IJ102T	RES, CHIP(1005/5%/1Kohm)		1	EA
....6	R682	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R687	CRJ06IJ102T	RES, CHIP(1005/5%/1Kohm)		1	EA
....6	R688	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R690	CRJ10DJ510T	RES, CHIP(1608/5%/51ohm)		1	EA
....6	R692	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R693	CRJ06IJ102T	RES, CHIP(1005/5%/1Kohm)		1	EA
....6	R694	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R695	CRJ10DJ510T	RES, CHIP(1608/5%/51ohm)		1	EA
....6	R696	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R697	CRJ10DJ510T	RES, CHIP(1608/5%/51ohm)		1	EA
....6	R707	CRJ10DJ472T	RES, CHIP(1608/5%/4.7Kohm)		1	EA
....6	R709	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R711	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R713	CRJ10DJ510T	RES, CHIP(1608/5%/51ohm)		1	EA
....6	R714	CRJ10DJ510T	RES, CHIP(1608/5%/51ohm)		1	EA
....6	R715	CRJ10DJ510T	RES, CHIP(1608/5%/51ohm)		1	EA
....6	R717	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R720	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R729	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R731	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R733	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R734	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R737	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R743	CRJ10DF2800T	RES, CHIP(1608/1%/280ohm)	1/10W, 280OHM, 1608, 1%	1	EA
....6	R745	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R748	CRJ10DF2800T	RES, CHIP(1608/1%/280ohm)	1/10W, 280OHM, 1608, 1%	1	EA
....6	R756	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R757	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 HDMI PCB ASS'Y			
....6	R760	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R771	CRJ10DF4R99T	RES, CHIP(1608/1%/4.99ohm)		1	EA
....6	R774	CRJ06IJ182T	RES, CHIP(1005/5%/1.8Kohm)		1	EA
....6	R777	CRJ10DF49R9T	RES, CHIP(1608/1%/49.9ohm)		1	EA
....6	R780	CRJ06IJ182T	RES, CHIP(1005/5%/1.8Kohm)		1	EA
....6	R785	CRJ10DF49R9T	RES, CHIP(1608/1%/49.9ohm)		1	EA
....6	R793	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R795	CRJ10DF49R9T	RES, CHIP(1608/1%/49.9ohm)		1	EA
....6	R797	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R799	CRJ10DF49R9T	RES, CHIP(1608/1%/49.9ohm)		1	EA
....6	R804	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R822	CRJ06IJ182T	RES, CHIP(1005/5%/1.8Kohm)		1	EA
....6	R830	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R836	CRJ06IJ182T	RES, CHIP(1005/5%/1.8Kohm)		1	EA
....6	R860	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R863	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R866	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R867	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R871	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R875	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R878	CRJ10DJ222T	RES, CHIP(1608/5%/2.2Kohm)		1	EA
....6		CUP12328Z	**PCB , HDMI AVR400(181X148, FR4, 6LAYER)**		1	EA
....6	C103	CCUI1E103KC	CAP, CHIP(1005, 25V/0.01uF)		1	EA
....6	C112	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C114	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C139	CCUC0J106KC	CAP, CHIP(2012, 6.3V/10uF)		1	EA
....6	C143	CCUS1H470JA	CAP, CHIP(1608, 50V/47pF)		1	EA
....6	C145	CCUS1H470JA	CAP, CHIP(1608, 50V/47pF)		1	EA
....6	C146	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C147	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C148	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C150	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C151	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C155	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C157	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C167	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C182	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C185	CCSNA0J220B	CAP , CHIP TANTAL(22uF/6.3V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C199	CCUS1H270JA	CAP, CHIP(1608, 50V/27pF)		1	EA
....6	C205	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C207	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C209	CCUS1H220JA	CAP, CHIP(1608, 50V/22pF)		1	EA
....6	C210	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C226	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C240	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C241	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C247	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C252	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C253	CCUC0J106KC	CAP, CHIP(2012, 6.3V/10uF)		1	EA
....6	C254	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C260	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C261	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C262	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C265	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C272	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C273	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C278	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C279	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C281	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C282	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C286	CCUI1H470JA	CAP, CHIP(1005, 50V/47pF)		1	EA
....6	C291	CCUI1H470JA	CAP, CHIP(1005, 50V/47pF)		1	EA
....6	C292	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C293	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C294	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C299	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C311	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C313	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C319	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C321	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C327	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C341	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C347	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C350	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C356	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C360	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C365	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			PCB , HDMI AVR400(181X148, FR4, 6LAYER)			
....6	C368	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C374	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C377	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C410	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C424	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C428	CCUS1A105KC	CAP, CHIP(1608, 10V/1uF)		1	EA
....6	C431	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C439	CCUS1A105KC	CAP, CHIP(1608, 10V/1uF)		1	EA
....6	C441	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C451	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C452	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C488	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C489	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C493	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C494	CCUI1C104KC	CAP , CHIP (1005, 16V/0.1uF)		1	EA
....6	C495	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C500	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C505	CCEC1CRV471T	CAP, SMD ELECT(16V/470uF)	MANLEX RV, 10X10	1	EA
....6	C506	CCEC1ACEEX151TY	CAP , ELEC SMD (150uF/10V, 8X10.5, SANYO)	10CE150EX	1	EA
....6	C509	CCEC1ERV221T	CAP , SMD ELECT(MANLEX, RV, 25V/220, 8X10)		1	EA
....6	C510	CCEC1ERV221T	CAP , SMD ELECT(MANLEX, RV, 25V/220, 8X10)		1	EA
....6	C511	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C512	CCUS1H102KC	CAP, CHIP(1608, 50V/1000pF)		1	EA
....6	C513	CCUS1H102KC	CAP, CHIP(1608, 50V/1000pF)		1	EA
....6	C515	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C517	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C518	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C520	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C521	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C526	CCSNA1C100B	CAP , CHIP TANTAL(10uF/16V, NingXia XingRi)	XRCA45 XXX M XXX AT	1	EA
....6	C527	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C531	CCEC1ERV221T	CAP , SMD ELECT(MANLEX, RV, 25V/220, 8X10)		1	EA
....6	C534	CCEC1ERV221T	CAP , SMD ELECT(MANLEX, RV, 25V/220, 8X10)		1	EA
....6	C535	CCEC1CRV471T	CAP, SMD ELECT(16V/470uF)	MANLEX RV, 10X10	1	EA
....6	C539	CCUS1H102KC	CAP, CHIP(1608, 50V/1000pF)		1	EA
....6	C542	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C548	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	D902	CVDSS34SR	DIODE , SCHOTTKY (40V,3A, DO-214AC) DELTA		1	EA
....6	D903	CVDSS34SR	DIODE , SCHOTTKY (40V,3A, DO-214AC) DELTA		1	EA
....6	D904	CVDSS34SR	DIODE , SCHOTTKY (40V,3A, DO-214AC) DELTA		1	EA
....6	IC901	CVIADV3014BSTZ	I.C, HDMI1.4 Repeater(LQFP-144P)		1	EA
....6	IC902	CVIADV7844KBCZ	I.C, HDMI RX/Decoder(BGA-425P)		1	EA
....6	IC903	CVITC74VCX541FT	I,C , OCTAL BUS BUFFER (TOSHIBA)		1	EA
....6	IC904	CVIA3S56D40FTPG5	I.C , 256MB DDR SDRAM(TOSPII-66P)		1	EA
....6	IC905	CVI74FCT38072DCGI	I.C , CLOCK DRIVER (IDT)	IDT74FCT38072DCGI , IDT	1	EA
....6	IC906	CVIFLI30336AC	I.C , VIDEO PROCESSOR (GENESIS)	FLI30336	1	EA
....6	IC907	CVIANAM1550AV	I.C , FLASH(CVIMX29LV320DTTI-70G , AVR265/365)		1	EA
....7	IC907	CVIMX29LV320DTTI-70G	I.C , FLASH MEMORY (32MBIT,TSOP-48P)		1	EA
....6	IC908	CVIA3S56D40FTPG5	I.C , 256MB DDR SDRAM(TOSPII-66P)		1	EA
....6	IC909	CVIA3S56D40FTPG5	I.C , 256MB DDR SDRAM(TOSPII-66P)		1	EA
....6	IC911	CVI74ALVCH16827DGG	I.C , BUFFER/DEIVER (TSSOP-56P)	74ALVCH16827DGG,118 / NXP SEMI	1	EA
....6	IC912	CVI74ALVCH16827DGG	I.C , BUFFER/DEIVER (TSSOP-56P)	74ALVCH16827DGG,118 / NXP SEMI	1	EA
....6	IC915	CVI74ALVCH16827DGG	I.C , BUFFER/DEIVER (TSSOP-56P)	74ALVCH16827DGG,118 / NXP SEMI	1	EA
....6	IC916	CVI74ALVCH16827DGG	I.C , BUFFER/DEIVER (TSSOP-56P)	74ALVCH16827DGG,118 / NXP SEMI	1	EA
....6	IC917	CVINJU7754F05TE1	I.C , REGULATOR(SOT-23-5)	NJU7754F05-TE1	1	EA
....6	IC918	CVIADV7511KSTZ	I.C , HDMI TX (LQFP-100P)		1	EA
....6	IC922	HVINJM2391DL125	I.C , CHIP REGULATOR (+2.5V) JRC		1	EA
....6	IC923	CVISI8005QTL	IC , DCDC Converter (3.5A, SOP8) SANKEN		1	EA
....6	IC924	CVIKIA1117BS50	I.C , REGULATOR(SOT-223)		1	EA
....6	IC925	CVIKIA7809AF	IC , REGULATOR (+9V,DPAK)		1	EA
....6	IC927	CVISI8005QTL	IC , DCDC Converter (3.5A, SOP8) SANKEN		1	EA
....6	IC929	HVINJM2391DL125	I.C , CHIP REGULATOR (+2.5V) JRC		1	EA
....6	IC930	CVISI8005QTL	IC , DCDC Converter (3.5A, SOP8) SANKEN		1	EA
....6	JK92	CJJ9H008Y	JACK, HDMI(TYPE-A, SMT-19P)	H050FS019G643BY	1	EA
....6	JK93	CJJ9H008Y	JACK, HDMI(TYPE-A, SMT-19P)	H050FS019G643BY	1	EA
....6	JK94	CJJ9H008Y	JACK, HDMI(TYPE-A, SMT-19P)	H050FS019G643BY	1	EA
....6	JK95	CJJ9H008Y	JACK, HDMI(TYPE-A, SMT-19P)	H050FS019G643BY	1	EA
....6	JK96	CJJ9H008Y	JACK, HDMI(TYPE-A, SMT-19P)	H050FS019G643BY	1	EA
....6	JK97	CJJ9H008Y	JACK, HDMI(TYPE-A, SMT-19P)	H050FS019G643BY	1	EA
....6	L801	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L802	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L808	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L809	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L810	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L811	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L814	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L815	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L817	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			PCB , HDMI AVR400(181X148, FR4, 6LAYER)			
....6	L842	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L849	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L851	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L852	CLQ12E100MRZ	COIL , SMD POWER (10UH/3A)	CMI-SPC9H45F-SERIES	1	EA
....6	L853	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L854	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L855	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L856	CLQ12E100MRZ	COIL , SMD POWER (10UH/3A)	CMI-SPC9H45F-SERIES	1	EA
....6	L858	CLQ12E100MRZ	COIL , SMD POWER (10UH/3A)	CMI-SPC9H45F-SERIES	1	EA
....6	L859	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L860	CLZ9R005Z	FERRITE CHIP BEAD(1608/60ohm)	HCB1608KF-600T30/COILMASTER	1	EA
....6	L862	CLQ12E100MRZ	COIL , SMD POWER (10UH/3A)	CMI-SPC9H45F-SERIES	1	EA
....6	L863	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	Q901	CVTKRC103S	T.R , CHIP , SOT-23		1	EA
....6	Q902	CVTKRC103S	T.R , CHIP , SOT-23		1	EA
....6	Q903	HVTKRA102S	T.R , CHIP , SOT-23	KRA102S	1	EA
....6	Q904	CVTKRC103S	T.R , CHIP , SOT-23		1	EA
....6	Q905	HVTKRA102S	T.R , CHIP , SOT-23	KRA102S	1	EA
....6	Q906	CVTKRC103S	T.R , CHIP , SOT-23		1	EA
....6	Q907	HVTKRA102S	T.R , CHIP , SOT-23	KRA102S	1	EA
....6	Q908	HVTKRA102S	T.R , CHIP , SOT-23	KRA102S	1	EA
....6	Q909	HVTKRA102S	T.R , CHIP , SOT-23	KRA102S	1	EA
....6	Q910	CVTKRC103S	T.R , CHIP , SOT-23		1	EA
....6	RN10	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN11	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN12	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN14	CRJ104DJ220T	RES , CHIP , 22 OHM, 5% , 1608 X 4	22X4/2012	1	EA
....6	RN15	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN16	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN17	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN18	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN19	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN20	CRJ104DJ220T	RES , CHIP , 22 OHM, 5% , 1608 X 4	22X4/2012	1	EA
....6	RN21	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN22	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN23	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN24	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN25	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN26	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN27	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN28	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN29	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN30	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN31	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN33	CRJ062IJ330T	RES, CHIP(1005/5%/33ohm*2)		1	EA
....6	RN34	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN35	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN37	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN38	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN39	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN42	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN43	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN44	CRJ064IJ103T	RES, CHIP(1005/5%/10Kohm*4)		1	EA
....6	RN46	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN48	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN49	CRJ062IJ330T	RES, CHIP(1005/5%/33ohm*2)		1	EA
....6	RN51	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN53	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN54	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN55	CRJ062IJ330T	RES, CHIP(1005/5%/33ohm*2)		1	EA
....6	RN56	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN57	CRJ062IJ330T	RES, CHIP(1005/5%/33ohm*2)		1	EA
....6	RN58	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN59	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN60	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN61	CRJ062IJ330T	RES, CHIP(1005/5%/33ohm*2)		1	EA
....6	RN72	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN73	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN74	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN75	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN76	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN77	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN78	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN79	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN80	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	RN81	CRJ064IJ330T	RES, CHIP(1005/5%/33ohm*4)		1	EA
....6	R604	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R606	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			PCB , HDMI AVR400(181X148, FR4, 6LAYER)			
....6	R607	CRJ10DF1001T	RES, CHIP(1608/1%/1Kohm)		1	EA
....6	R610	CRJ10DF1001T	RES, CHIP(1608/1%/1Kohm)		1	EA
....6	R611	CRJ10DF1001T	RES, CHIP(1608/1%/1Kohm)		1	EA
....6	R613	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R616	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R618	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R620	CRJ10DJ222T	RES, CHIP(1608/5%/2.2Kohm)		1	EA
....6	R621	CRJ10DF8201T	RES, CHIP(1608/1%/8.2Kohm)		1	EA
....6	R625	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R626	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R627	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R628	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R630	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R635	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R636	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R638	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R646	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R647	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R649	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R650	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R653	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R654	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R655	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R658	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R659	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R661	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R662	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R666	CRJ10DF1001T	RES, CHIP(1608/1%/1Kohm)		1	EA
....6	R669	CRJ10DF1001T	RES, CHIP(1608/1%/1Kohm)		1	EA
....6	R673	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R680	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R685	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R689	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R691	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R703	CRJ06IJ330T	RES, CHIP(1005/5%/33ohm)		1	EA
....6	R705	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R710	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R716	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R718	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R719	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R721	CRJ06IJ560T	RES, CHIP(1005/5%/56ohm)		1	EA
....6	R722	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R723	CRJ06IJ0R0T	RES, CHIP(1005/5%/0ohm)		1	EA
....6	R724	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R725	CRJ06IJ560T	RES, CHIP(1005/5%/56ohm)		1	EA
....6	R726	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R727	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R728	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R730	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R732	CRJ06IJ560T	RES, CHIP(1005/5%/56ohm)		1	EA
....6	R735	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R736	CRJ06IJ560T	RES, CHIP(1005/5%/56ohm)		1	EA
....6	R738	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R739	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R740	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R741	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R742	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R744	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R746	CRJ06IJ560T	RES, CHIP(1005/5%/56ohm)		1	EA
....6	R747	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R749	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R750	CRJ10DF1002T	RES, CHIP(1608/1%/10Kohm)	10K /1/10W/F	1	EA
....6	R752	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R753	CRJ06IJ560T	RES, CHIP(1005/5%/56ohm)		1	EA
....6	R754	CRJ10DF1002T	RES, CHIP(1608/1%/10Kohm)	10K /1/10W/F	1	EA
....6	R755	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R758	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R761	CRJ06IJ560T	RES, CHIP(1005/5%/56ohm)		1	EA
....6	R762	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R763	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R764	CRJ06IJ220T	RES, CHIP(1005/5%/22ohm)		1	EA
....6	R765	CRJ06IJ560T	RES, CHIP(1005/5%/56ohm)		1	EA
....6	R767	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R768	CRJ06IJ103T	RES, CHIP(1005/5%/10Kohm)		1	EA
....6	R776	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R779	CRJ10DF8201T	RES, CHIP(1608/1%/8.2Kohm)		1	EA
....6	R787	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R792	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			PCB , HDMI AVR400(181X148, FR4, 6LAYER)			
....6	R796	CRJ10DF1001T	RES, CHIP(1608/1%/1Kohm)		1	EA
....6	R826	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R834	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R838	CRJ10DJ123T	RES, CHIP(1608/5%/12Kohm)		1	EA
....6	R839	CRJ10DJ273T	RES, CHIP(1608/5%/27Kohm)		1	EA
....6	R840	CRJ10DJ512T	RES, CHIP(1608/5%/5.1Kohm)	1608 SIZE	1	EA
....6	R841	CRJ10DJ123T	RES, CHIP(1608/5%/12Kohm)		1	EA
....6	R843	CRJ10DJ202T	RES, CHIP(1608/5%/2Kohm)		1	EA
....6	R844	CRJ10DJ222T	RES, CHIP(1608/5%/2.2Kohm)		1	EA
....6	R845	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R846	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R847	CRJ10DJ512T	RES, CHIP(1608/5%/5.1Kohm)	1608 SIZE	1	EA
....6	R851	CRJ10DJ512T	RES, CHIP(1608/5%/5.1Kohm)	1608 SIZE	1	EA
....6	R852	CRJ10DJ202T	RES, CHIP(1608/5%/2Kohm)		1	EA
....6	R854	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R856	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R857	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R859	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R861	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R862	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R864	CRJ06IJ472T	RES, CHIP(1005/5%/4.7Kohm)		1	EA
....6	R865	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R872	CRJ10DJ623T	RES, CHIP(1608/5%/62Kohm)		1	EA
....6	R873	CRJ10DJ623T	RES, CHIP(1608/5%/62Kohm)		1	EA
....6	R874	CRJ10DJ623T	RES, CHIP(1608/5%/62Kohm)		1	EA
....6	R879	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R880	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R881	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R882	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R883	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R884	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	X901	COX28636E330S	CRYSTAL, 28.636MHz, HC-49/SMD, 33pF, 30PPM		1	EA
....6	X902	COX28636E330S	CRYSTAL, 28.636MHz, HC-49/SMD, 33pF, 30PPM		1	EA
....6	X903	COX19660E330S	CRYSTAL, 19.660MHz, HC-49/SMD, 33pF, 20PPM		1	EA
...4		CMY1A297	HEAT SINK		1	EA
...4	BN301	CJP30GB143ZB	DIP, SOCKET(30PIN, 2.54mm,ANGLE)		1	EA
...4	BN61	CWB1D00718058	WIRE ASS'Y (2.5mm, 7p, 180mm)		1	EA
...4	C528	CCEA1EH222E	CAP , ELECT(25V/2200uF)	2200UF 25V	1	EA
..3		COP12361H	**AVR265/230 VIDEO PCB ASS'Y**		1	EA
....6	C179	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C180	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C181	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C182	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C183	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C184	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C185	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C187	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C190	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C191	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C192	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C193	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C194	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C195	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C196	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C197	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C198	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C200	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C202	CCUS1H220JA	CAP, CHIP(1608, 50V/22pF)		1	EA
....6	C203	CCUS1H220JA	CAP, CHIP(1608, 50V/22pF)		1	EA
....6	D705	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D706	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D707	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	D708	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	L802	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	R567	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R568	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R569	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R570	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R571	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R572	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R573	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R574	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R582	CRJ10DJ4R7T	RES, CHIP(1608/5%/4.7ohm)	1608 SIZE	1	EA
....6	R583	CRJ10DJ474T	RES, CHIP(1608/5%/470Kohm)		1	EA
....6	R584	CRJ10DJ220T	RES, CHIP(1608/5%/22ohm)		1	EA
....6	R585	CRJ10DJ474T	RES, CHIP(1608/5%/470Kohm)		1	EA
....6	R586	CRJ10DJ220T	RES, CHIP(1608/5%/22ohm)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 VIDEO PCB ASS'Y			
....6	R587	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R589	CRJ10DJ220T	RES, CHIP(1608/5%/22ohm)		1	EA
....6	R591	CRJ10DJ220T	RES, CHIP(1608/5%/22ohm)		1	EA
....6	R592	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R593	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R594	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R596	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R602	CRJ10DJ4R7T	RES, CHIP(1608/5%/4.7ohm)	1608 SIZE	1	EA
....6	R603	CRJ10DJ4R7T	RES, CHIP(1608/5%/4.7ohm)	1608 SIZE	1	EA
....6	R605	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R606	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R608	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6		CUP12361Y	**PCB , VIDEO (FR-4, 2L, 207 X 160)**		0,5	EA
....6	C101	CCUS1H472KC	CAP, CHIP(1608, 50V/4700pF)		1	EA
....6	C102	CCUS1H472KC	CAP, CHIP(1608, 50V/4700pF)		1	EA
....6	C103	CCUS1H472KC	CAP, CHIP(1608, 50V/4700pF)		1	EA
....6	C108	CCUS1H102KC	CAP, CHIP(1608, 50V/1000pF)		1	EA
....6	C109	CCUS1H102KC	CAP, CHIP(1608, 50V/1000pF)		1	EA
....6	C110	CCUS1H020CA	CAP, CHIP(1608, 50V/2pF)		1	EA
....6	C111	CCUS1H020CA	CAP, CHIP(1608, 50V/2pF)		1	EA
....6	C112	CCUS1H020CA	CAP, CHIP(1608, 50V/2pF)		1	EA
....6	C113	CCUS1H020CA	CAP, CHIP(1608, 50V/2pF)		1	EA
....6	C114	CCUS1H020CA	CAP, CHIP(1608, 50V/2pF)		1	EA
....6	C115	CCUS1H020CA	CAP, CHIP(1608, 50V/2pF)		1	EA
....6	C116	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C117	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C118	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C119	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C120	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C121	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C122	CCUS1H330JA	CAP, CHIP(1608, 50V/33pF)		1	EA
....6	C123	CCUS1H330JA	CAP, CHIP(1608, 50V/33pF)		1	EA
....6	C124	CCUS1H330JA	CAP, CHIP(1608, 50V/33pF)		1	EA
....6	C143	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C144	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C145	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C146	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C147	CCUS1H330JA	CAP, CHIP(1608, 50V/33pF)		1	EA
....6	C148	CCUS1H330JA	CAP, CHIP(1608, 50V/33pF)		1	EA
....6	C162	CCUS1H223KC	CAP, CHIP(1608, 50V/0.022uF)		1	EA
....6	C164	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C165	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C166	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C204	CCUS1A105KC	CAP, CHIP(1608, 10V/1uF)		1	EA
....6	C205	CCUS1A105KC	CAP, CHIP(1608, 10V/1uF)		1	EA
....6	C206	CCUS1A105KC	CAP, CHIP(1608, 10V/1uF)		1	EA
....6	D704	CVD1SS355T	DIODE, SMD, SWITCHING	1SS355/SOD-323	1	EA
....6	IC901	CVINJW1321FP1	I.C , VIDEO S/W (JRC)		1	EA
....6	IC903	CVIKIA7809AF	IC , REGULATOR (+9V,DPAK)		1	EA
....6	IC904	CVIKIA1117BS50	I.C , REGULATOR(SOT-223)		1	EA
....6	IC905	CVINJM2595MTE1	I.C , VIDEO S/W (JRC)		1	EA
....6	IC907	CVIAZ4580MTR-E1	I.C , OPAMP(DUAL LOW NOISE)	AZ4580MTR-E1/SOIC8/BCD	1	EA
....6	IC908	CVITL072CDR	I.C , OP AMP/SOP/8P (TI)		1	EA
....6	IC909	CVINJM2505AFTE1	I.C , VIDEO AMP(4.5~9.0V , 200MW , MTP5) JRC	NJM2505AF-TE1 , JRC	1	EA
....6	IC910	CVINJM2505AFTE1	I.C , VIDEO AMP(4.5~9.0V , 200MW , MTP5) JRC	NJM2505AF-TE1 , JRC	1	EA
....6	IC911	HVINJM2581MTE1	I.C (JRC)		1	EA
....6	IC912	CVINJM2505AFTE1	I.C , VIDEO AMP(4.5~9.0V , 200MW , MTP5) JRC	NJM2505AF-TE1 , JRC	1	EA
....6	IC918	CVIILX3232DT	I.C, RS232 DRIVER(3.3V)	ILX3232D	1	EA
....6	L801	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	Q901	HVTKRC102S	T.R , CHIP , SOT-23	KRC102S	1	EA
....6	Q905	HVTKRA102S	T.R , CHIP , SOT-23	KRA102S	1	EA
....6	Q906	HVTKRC102S	T.R , CHIP , SOT-23	KRC102S	1	EA
....6	Q908	HVTKRC107S	T.R , CHIP , SOT-23		1	EA
....6	R501	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R502	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R503	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R504	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R505	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R506	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R507	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R508	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R509	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R510	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R517	CRJ10DF1002T	RES, CHIP(1608/1%/10Kohm)	10K /1/10W/F	1	EA
....6	R518	CRJ10DF1002T	RES, CHIP(1608/1%/10Kohm)	10K /1/10W/F	1	EA
....6	R519	CRJ10DF5101T	RES, CHIP(1608/1%/5.1Kohm)	1608 SIZE	1	EA
....6	R520	CRJ10DF5101T	RES, CHIP(1608/1%/5.1Kohm)	1608 SIZE	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			PCB , VIDEO (FR-4, 2L, 207 X 160)			
....6	R521	CRJ10DF4992T	RES, CHIP(1608/1%/49.9Kohm)		1	EA
....6	R522	CRJ10DF4992T	RES, CHIP(1608/1%/49.9Kohm)		1	EA
....6	R523	CRJ10DF4992T	RES, CHIP(1608/1%/49.9Kohm)		1	EA
....6	R524	CRJ10DF1001T	RES, CHIP(1608/1%/1Kohm)		1	EA
....6	R525	CRJ10DF4992T	RES, CHIP(1608/1%/49.9Kohm)		1	EA
....6	R526	CRJ10DF4992T	RES, CHIP(1608/1%/49.9Kohm)		1	EA
....6	R527	CRJ10DF1001T	RES, CHIP(1608/1%/1Kohm)		1	EA
....6	R528	CRJ10DF1001T	RES, CHIP(1608/1%/1Kohm)		1	EA
....6	R529	CRJ10DF4992T	RES, CHIP(1608/1%/49.9Kohm)		1	EA
....6	R533	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R534	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R538	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R539	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R540	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R541	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R542	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R543	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R544	CRJ10DJ750T	RES, CHIP(1608/5%/75ohm)		1	EA
....6	R545	CRJ10DJ101T	RES, CHIP(1608/5%/100ohm)		1	EA
....6	R546	CRJ10DJ222T	RES, CHIP(1608/5%/2.2Kohm)		1	EA
....6	R547	CRJ10DJ474T	RES, CHIP(1608/5%/470Kohm)		1	EA
....6	R548	CRJ10DJ271T	RES, CHIP(1608/5%/270ohm)		1	EA
....6	R549	CRJ10DJ271T	RES, CHIP(1608/5%/270ohm)		1	EA
....6	R550	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R552	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R553	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R556	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....6	R557	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R559	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R561	CRJ10DJ4R7T	RES, CHIP(1608/5%/4.7ohm)	1608 SIZE	1	EA
....6	R562	CRJ10DJ4R7T	RES, CHIP(1608/5%/4.7ohm)	1608 SIZE	1	EA
....6	R563	CRJ10DJ103T	RES, CHIP(1608/5%/10Kohm)		1	EA
....6	R575	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R576	CRJ10DJ330T	RES, CHIP(1608/5%/33ohm)		1	EA
....6	R577	CRJ10DJ102T	RES, CHIP(1608/5%/1Kohm)		1	EA
....5	C106	CCEA1EH221T	CAP , ELECT(25V/220uF)	KR3-25V221MC(8*11.5L)	1	EA
....5	C107	CCEA1CH471T	CAP , ELECT(16V/470uF)	KR3-16V471MC(8*11.5L)	1	EA
....5	C125	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C126	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C129	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C130	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C131	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C132	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C133	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C134	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C135	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C136	CCEA1HH1R0T	CAP , ELECT(50V/1uF)	KR3-50V010MA(5*11L)	1	EA
....5	C137	CCEA1HH1R0T	CAP , ELECT(50V/1uF)	KR3-50V010MA(5*11L)	1	EA
....5	C138	CCEA1HH1R0T	CAP , ELECT(50V/1uF)	KR3-50V010MA(5*11L)	1	EA
....5	C139	CCEA1HH1R0T	CAP , ELECT(50V/1uF)	KR3-50V010MA(5*11L)	1	EA
....5	C140	CCEA1HH1R0T	CAP , ELECT(50V/1uF)	KR3-50V010MA(5*11L)	1	EA
....5	C141	CCEA1HH1R0T	CAP , ELECT(50V/1uF)	KR3-50V010MA(5*11L)	1	EA
....5	C142	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C149	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C151	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C152	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C153	CCEA1CH221T	CAP , ELECT(16V/220uF)	KR3-16V221MB(6.3*11L)	1	EA
....5	C154	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C155	CCEA1CH470T	CAP , ELECT(16V/47uF)	KR3-16V470MA(5*11L)	1	EA
....5	C156	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C157	CCEA1CH470T	CAP , ELECT(16V/47uF)	KR3-16V470MA(5*11L)	1	EA
....5	C158	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C159	CCEA1CH470T	CAP , ELECT(16V/47uF)	KR3-16V470MA(5*11L)	1	EA
....5	C160	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C161	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C163	CCEA1CH470T	CAP , ELECT(16V/47uF)	KR3-16V470MA(5*11L)	1	EA
....5	C168	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C169	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C170	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C171	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C172	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C173	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C174	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C175	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C176	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C177	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	Q903	HVTKTA1266YT	T.R	TKTA1266YT	1	EA
....5	Q907	HVTKTA1266YT	T.R	TKTA1266YT	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			PCB , VIDEO (FR-4, 2L, 207 X 160)			
...4	BN51	CWB1D00910058	WIRE ASS'Y (9PIN, 2.5mm,100mm,STRAIGHT,#22)		1	EA
...4	BN53	CJP18GB142ZB	PIN HEADER (18P, 2.54mm) , ANGLE TYPE		1	EA
...4	CN40	CJP09GI237ZW	LOCK-WAFER/STRAIGHT/2.5mm		1	EA
...4	CN41	CJP30GB142ZB	30PIN, 2.54MM PIN HEADER		1	EA
...4	CN52	CJP05GB46ZY	WAFER,20017WR(2mm,ANGLE)		1	EA
...4	IC902	CVIKIA7905PI	I.C,REGULATOR(-5V,T0220IS)	KIA7905PI (KEC)	1	EA
...4	IC913	HVIKIA7812API	I.C,REGULATOR(+12V,T0220IS)	KIA78XXAPI	1	EA
...4	JK91	CJJ4R046Z	JACK , BOARD		1	EA
...4	JK92	CJJ4P074Z	JACK , RCA(4P, GOLD PLATE (Y/Y/Y/Y)	41100861	1	EA
...4	JK94	CJJ9L016Z	JACK , IPOD CONNECTOR (36PIN)	SCSI36P	1	EA
...4	JK95	CJJ9W001Z	JACK, 9P D-SUB FEMALE(RS-232C)	HDR-9PF-RSB/SEMCO	1	EA
...4	JK96	CJJ2D008Z	JACK, STEREO (BLK MOLD)	PJ-308-02/YUQIU	1	EA
..3		COP12364H	**AVR265/230 MAIN PCB ASS'Y**		1	EA
....5	C501	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C502	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C503	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C504	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C505	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C506	CCKT1H331KB	CAP, CERAMIC(50V/330pF/K)		1	EA
....5	C507	CCBS1H331KBT	CAP , CERAMIC(330PF/50V)	CH UP025 B331K-A-B Z	1	EA
....5	C508	CCBS1H331KBT	CAP , CERAMIC(330PF/50V)	CH UP025 B331K-A-B Z	1	EA
....5	C509	CCKT1H331KB	CAP, CERAMIC(50V/330pF/K)		1	EA
....5	C510	CCBS1H331KBT	CAP , CERAMIC(330PF/50V)	CH UP025 B331K-A-B Z	1	EA
....5	C561	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C562	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C563	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C564	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C565	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C566	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C567	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C568	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C569	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C570	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C571	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	CH UP025 B681K-A-B Z	1	EA
....5	C572	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	CH UP025 B681K-A-B Z	1	EA
....5	C573	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	CH UP025 B681K-A-B Z	1	EA
....5	C574	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	CH UP025 B681K-A-B Z	1	EA
....5	C575	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	CH UP025 B681K-A-B Z	1	EA
....5	C601	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
....5	C602	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
....5	C603	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
....5	C604	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
....5	C605	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
....5	C606	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
....5	C607	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
....5	C608	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
....5	C609	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
....5	C610	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
....5	C631	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C634	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C635	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C636	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C639	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C640	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C649	CCEA1HHR15T	CAP , ELECT(50V/0.15uF)	0.15UF 50V	1	EA
....5	C650	CCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z	1	EA
....5	C681	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C682	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C683	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C684	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C685	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C704	CCKT1H102KB	CAP, CERAMIC(50V/1000pF/K)		1	EA
....5	C716	CCEA1CH220T	CAP , ELECT(16V/22uF)	KR3-16V220MA(5*11L)	1	EA
....5	C725	CCKT1H221KB	CAP, CERAMIC(50V/220pF/K)		1	EA
....5	C801	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C802	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C803	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
....5	C804	CCCT1H330JC	CAP , CERAMIC	33PF 50V J	1	EA
....5	C805	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
....5	C806	CCCT1H120JC	CAP , CERAMIC	12PF 50V J	1	EA
....5	C807	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C808	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C809	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C810	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C	1	EA
....5	C811	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C812	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C813	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 MAIN PCB ASS'Y			
....5	C814	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C815	CCKT1H331KB	CAP, CERAMIC(50V/330pF/K)		1	EA
....5	C816	CCBS1H331KBT	CAP , CERAMIC(330PF/50V)	CH UP025 B331K-A-B Z	1	EA
....5	C817	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C818	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C819	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	CH UP025 B681K-A-B Z	1	EA
....5	C820	CCBS1H681KBT	CAP , CERAMIC(680PF/50V)	CH UP025 B681K-A-B Z	1	EA
....5	C851	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C852	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C853	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C854	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C855	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C856	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C857	CCEA1HH100T	CAP , ELECT(50V/10uF)	KR3-50V100MA(5*11L)	1	EA
....5	C900	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C901	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C905	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
....5	C907	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C908	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
....5	C910	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C913	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V Z	1	EA
....5	C914	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C917	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C918	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C919	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C924	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V Z	1	EA
....5	C925	CCEA1HH2R2T	CAP , ELECT(50V/2.2uF)	KR3-50V2R2MA(5*11L)	1	EA
....5	C927	CCKT1H102KB	CAP, CERAMIC(50V/1000pF/K)		1	EA
....5	C932	CCEA1CH101T	CAP , ELECT(16V/100uF)	KR3-16V101MA(5*11L)	1	EA
....5	C936	CCEA1CH221T	CAP , ELECT(16V/220uF)	KR3-16V221MB(6.3*11L)	1	EA
....5	C939	CCEA1HH4R7T	CAP , ELECT(50V/4.7uF)	KR3-50V4R7MA(5*11L)	1	EA
....5	C940	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C950	CCEA1AH471T	CAP , ELECT(10V/470uF)	KR3-10V471MB(6.3*11L)	1	EA
....5	C951	CCEA1HH470T	CAP , ELECT(50V/47uF)	KR3-50V470MB(6.3*11L)	1	EA
....5	C971	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
....5	C972	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
....5	C973	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
....5	C974	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
....5	C975	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
....5	C977	CCEA1HH2R2T	CAP , ELECT(50V/2.2uF)	KR3-50V2R2MA(5*11L)	1	EA
....5	C980	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
....5	C981	HCQI1H562JZT	CAP , MYLAR	5600PF 50V J	1	EA
....5	C990	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C991	CCEA1HH1R0T	CAP , ELECT(50V/1uF)	KR3-50V010MA(5*11L)	1	EA
....5	C992	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C993	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C994	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C995	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C996	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C997	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C999	CCBS1H223ZFT	CAP , CERAMIC(22000PF/50V)	CH UP025 F223Z-A-B J	1	EA
....5	D501	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D502	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D503	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D504	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D505	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D581	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D582	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D583	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D584	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D585	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D701	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D801	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D802	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D803	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D804	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D901	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D903	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D912	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D915	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D917	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D950	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D953	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D954	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
....5	D955	CVD1N4003SRT	DIODE , RECT	1N4003	1	EA
....5	D956	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D957	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D961	CVD1N4003ST	DIODE , RECT	1N4003	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 MAIN PCB ASS'Y			
....5	D962	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D963	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D964	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D967	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D968	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D969	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D971	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D972	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D975	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D976	CVD1SS133MT	DIODE , SWITCHING	1SS133	1	EA
....5	D979	CVDZJ4.3BT	DIODE , ZENER 4.3V	ZJ4.3B 1/2W	1	EA
....5	ET90	HJT1A025	PALTE , EARTH	MET37-0002	1	EA
....5	ET91	HJT1A025	PALTE , EARTH	MET37-0002	1	EA
....5	F901	KJCFC5S	HOLDER , FUSE		2	EA
....5	Q501	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q502	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q503	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q504	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q505	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q511	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q512	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q513	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q514	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q515	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q516	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q517	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q518	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q519	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q520	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q541	HVTKTC3198YT	T.R	KTC3198Y	1	EA
....5	Q542	HVTKTC3198YT	T.R	KTC3198Y	1	EA
....5	Q543	HVTKTC3198YT	T.R	KTC3198Y	1	EA
....5	Q544	HVTKTC3198YT	T.R	KTC3198Y	1	EA
....5	Q545	HVTKTC3198YT	T.R	KTC3198Y	1	EA
....5	Q556	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q557	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q558	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q559	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q560	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q561	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q562	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q563	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q564	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q565	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q601	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q602	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q603	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q604	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q605	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q641	HVTKRC102MT	T.R , TO-92M	KRC102M	1	EA
....5	Q642	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q681	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q682	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q683	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q684	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q685	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q701	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q702	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q703	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q704	HVTKTA1267YT	T.R	KTA1267Y	1	EA
....5	Q705	HVTKRC107MT	T.R , TO-92M	KRC107M	1	EA
....5	Q716	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q801	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q802	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q812	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q813	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q814	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q815	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q816	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q817	HVTKTA1268GRT	T.R	KTA1268GR	1	EA
....5	Q818	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q819	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q820	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q821	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q822	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q823	CVT2SC2240BL	T.R , 2SC2240BL (NPN, TO-92, LOW NOISE, TOSIBA)	2SC2240BL	1	EA
....5	Q824	HVTKTC3198YT	T.R	KTC3198Y	1	EA
....5	Q825	HVTKTC3198YT	T.R	KTC3198Y	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 MAIN PCB ASS'Y			
....5	Q901	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q911	HVTKTA1271YT	T.R	KTA1271Y	1	EA
....5	Q912	HVTKTA1271YT	T.R	KTA1271Y	1	EA
....5	Q913	HVTKTA1271YT	T.R	KTA1271Y	1	EA
....5	Q915	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q916	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q917	HVTKRC102MT	T.R , TO-92M	KRC102M	1	EA
....5	Q938	HVTKRA107MT	T.R , TO-92M	KRA107M	1	EA
....5	Q939	HVTKRA107MT	T.R , TO-92M	KRA107M	1	EA
....5	Q941	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q942	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q943	HVTKTC3199YT	T.R , KTC3199Y	KTC3199Y/TO-92M	1	EA
....5	Q950	HVTKTA1267YT	T.R	KTA1267Y	1	EA
....5	Q951	HVTKTC3198YT	T.R	KTC3198Y	1	EA
....5	Q952	HVTKTC3198YT	T.R	KTC3198Y	1	EA
....5	Q960	HVTKRC107MT	T.R , TO-92M	KRC107M	1	EA
....5	Q961	HVTKTA1024YT	T.R , KTA1024Y	KTA1024Y/TO-92L	1	EA
....5	R500	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R501	CRD20TJ433T	RES, CARBON(1/5W,43Kohm,J)		1	EA
....5	R502	CRD20TJ433T	RES, CARBON(1/5W,43Kohm,J)		1	EA
....5	R503	CRD20TJ433T	RES, CARBON(1/5W,43Kohm,J)		1	EA
....5	R504	CRD20TJ433T	RES, CARBON(1/5W,43Kohm,J)		1	EA
....5	R505	CRD20TJ433T	RES, CARBON(1/5W,43Kohm,J)		1	EA
....5	R506	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R507	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R508	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R509	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R510	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R511	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R512	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R513	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R514	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R515	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R516	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R517	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R518	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R519	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R520	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R521	CRD20TJ471T	RES, CARBON(1/5W,470ohm,J)		1	EA
....5	R522	CRD20TJ471T	RES, CARBON(1/5W,470ohm,J)		1	EA
....5	R523	CRD20TJ471T	RES, CARBON(1/5W,470ohm,J)		1	EA
....5	R524	CRD20TJ471T	RES, CARBON(1/5W,470ohm,J)		1	EA
....5	R525	CRD20TJ471T	RES, CARBON(1/5W,470ohm,J)		1	EA
....5	R531	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R532	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R533	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R534	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R535	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R536	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R537	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R538	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R539	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R540	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R541	CRD20TJ271T	RES, CARBON(1/5W,270ohm,J)		1	EA
....5	R542	CRD20TJ271T	RES, CARBON(1/5W,270ohm,J)		1	EA
....5	R543	CRD20TJ271T	RES, CARBON(1/5W,270ohm,J)		1	EA
....5	R544	CRD20TJ271T	RES, CARBON(1/5W,270ohm,J)		1	EA
....5	R545	CRD20TJ271T	RES, CARBON(1/5W,270ohm,J)		1	EA
....5	R556	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R557	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R558	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R559	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R560	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R561	CRD20TJ132T	RES, CARBON(1/5W,1.3Kohm,J)		1	EA
....5	R562	CRD20TJ132T	RES, CARBON(1/5W,1.3Kohm,J)		1	EA
....5	R563	CRD20TJ132T	RES, CARBON(1/5W,1.3Kohm,J)		1	EA
....5	R564	CRD20TJ132T	RES, CARBON(1/5W,1.3Kohm,J)		1	EA
....5	R565	CRD20TJ132T	RES, CARBON(1/5W,1.3Kohm,J)		1	EA
....5	R566	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R567	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R568	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R569	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R570	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R571	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R572	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R573	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R574	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R575	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 MAIN PCB ASS'Y			
....5	R576	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R577	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R578	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R579	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R580	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R581	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R582	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R583	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R584	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R585	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R586	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R587	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R588	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R589	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R590	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R591	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R592	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R593	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R594	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R595	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R596	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R597	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R598	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R599	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R600	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R601	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R602	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R603	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R604	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R605	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R606	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R607	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R608	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R609	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R610	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R611	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R612	CRD20TJ100T	RES, CARBON(1/5W,10ohm,J)		1	EA
....5	R631	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R632	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R633	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R634	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R635	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R636	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R637	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R638	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R639	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R640	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R643	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R644	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R645	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R646	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R647	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R648	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R649	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R650	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R651	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R652	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R653	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R654	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R655	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R666	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R667	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R668	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R669	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R670	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R671	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R672	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R673	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R674	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R675	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R676	CRD25TJ182T	RES, CARBON(1/4W,1.8Kohm,J)		1	EA
....5	R677	CRD25TJ182T	RES, CARBON(1/4W,1.8Kohm,J)		1	EA
....5	R678	CRD25TJ182T	RES, CARBON(1/4W,1.8Kohm,J)		1	EA
....5	R679	CRD25TJ182T	RES, CARBON(1/4W,1.8Kohm,J)		1	EA
....5	R680	CRD25TJ182T	RES, CARBON(1/4W,1.8Kohm,J)		1	EA
....5	R681	CRD20TJ562T	RES, CARBON(1/5W,5.6Kohm,J)		1	EA
....5	R682	CRD20TJ562T	RES, CARBON(1/5W,5.6Kohm,J)		1	EA
....5	R683	CRD20TJ562T	RES, CARBON(1/5W,5.6Kohm,J)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 MAIN PCB ASS'Y			
....5	R684	CRD20TJ562T	RES, CARBON(1/5W,5.6Kohm,J)		1	EA
....5	R685	CRD20TJ562T	RES, CARBON(1/5W,5.6Kohm,J)		1	EA
....5	R686	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R687	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R688	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R689	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R690	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R696	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R697	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R698	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R699	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R700	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R701	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R702	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R703	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R704	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R705	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R708	CRD20TJ564T	RES, CARBON(1/5W,560Kohm,J)		1	EA
....5	R710	CRD20TJ1R0T	RES, CARBON(1/5W,1ohm,J)		1	EA
....5	R711	CRD20TJ272T	RES, CARBON(1/5W,2.7Kohm,J)		1	EA
....5	R712	CRD20TJ473T	RES, CARBON(1/5W,47Kohm,J)		1	EA
....5	R713	CRD20TJ563T	RES, CARBON(1/5W,56Kohm,J)		1	EA
....5	R715	CRD20TJ153T	RES, CARBON(1/5W,15Kohm,J)		1	EA
....5	R716	CRD20TJ392T	RES, CARBON(1/5W,3.9Kohm,J)		1	EA
....5	R717	CRD20TJ333T	RES, CARBON(1/5W,33Kohm,J)		1	EA
....5	R771	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R772	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R773	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R774	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R775	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R776	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R777	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R781	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R782	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R783	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R784	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R785	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R786	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R787	CRD20TJ750T	RES, CARBON(1/5W,75ohm,J)		1	EA
....5	R801	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R802	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R803	CRD20TJ562T	RES, CARBON(1/5W,5.6Kohm,J)		1	EA
....5	R804	CRD20TJ562T	RES, CARBON(1/5W,5.6Kohm,J)		1	EA
....5	R805	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R807	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R808	CRD25TJ182T	RES, CARBON(1/4W,1.8Kohm,J)		1	EA
....5	R809	CRD25TJ182T	RES, CARBON(1/4W,1.8Kohm,J)		1	EA
....5	R812	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R813	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R814	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R815	CRD25TJ470T	RES, CARBON(1/4W,47ohm,J)		1	EA
....5	R817	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R818	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R819	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R820	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J	1	EA
....5	R821	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R822	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R823	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R824	CRD25FJ180T	RES , CARBON (18 OHM) NONFLAMMABLE		1	EA
....5	R830	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R831	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R832	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R833	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R834	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R835	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R836	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R837	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R838	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R839	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R840	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R841	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R842	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R843	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R844	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R845	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R848	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R849	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R850	CRD20TJ132T	RES, CARBON(1/5W,1.3Kohm,J)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 MAIN PCB ASS'Y			
....5	R851	CRD20TJ132T	RES, CARBON(1/5W,1.3Kohm,J)		1	EA
....5	R852	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R853	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R854	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R855	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R856	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R857	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R858	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R859	CRD20TJ221T	RES, CARBON(1/5W,220ohm,J)		1	EA
....5	R860	CRD20TJ271T	RES, CARBON(1/5W,270ohm,J)		1	EA
....5	R861	CRD20TJ271T	RES, CARBON(1/5W,270ohm,J)		1	EA
....5	R862	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R863	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R870	CRD20TJ433T	RES, CARBON(1/5W,43Kohm,J)		1	EA
....5	R871	CRD20TJ433T	RES, CARBON(1/5W,43Kohm,J)		1	EA
....5	R872	CRD20TJ471T	RES, CARBON(1/5W,470ohm,J)		1	EA
....5	R873	CRD20TJ471T	RES, CARBON(1/5W,470ohm,J)		1	EA
....5	R874	CRD20TJ331T	RES, CARBON(1/5W,330ohm,J)		1	EA
....5	R875	CRD20TJ331T	RES, CARBON(1/5W,330ohm,J)		1	EA
....5	R876	CRD20TJ331T	RES, CARBON(1/5W,330ohm,J)		1	EA
....5	R877	CRD20TJ331T	RES, CARBON(1/5W,330ohm,J)		1	EA
....5	R878	CRD20TJ331T	RES, CARBON(1/5W,330ohm,J)		1	EA
....5	R879	CRD20TJ331T	RES, CARBON(1/5W,330ohm,J)		1	EA
....5	R880	CRD20TJ331T	RES, CARBON(1/5W,330ohm,J)		1	EA
....5	R882	CRD20TJ122T	RES, CARBON(1/5W,1.2Kohm,J)		1	EA
....5	R883	CRD20TJ122T	RES, CARBON(1/5W,1.2Kohm,J)		1	EA
....5	R884	CRD20TJ122T	RES, CARBON(1/5W,1.2Kohm,J)		1	EA
....5	R885	CRD20TJ122T	RES, CARBON(1/5W,1.2Kohm,J)		1	EA
....5	R886	CRD20TJ122T	RES, CARBON(1/5W,1.2Kohm,J)		1	EA
....5	R887	CRD20TJ122T	RES, CARBON(1/5W,1.2Kohm,J)		1	EA
....5	R888	CRD20TJ122T	RES, CARBON(1/5W,1.2Kohm,J)		1	EA
....5	R891	CRD20TJ391T	RES, CARBON(1/5W,390ohm,J)		1	EA
....5	R892	CRD20TJ391T	RES, CARBON(1/5W,390ohm,J)		1	EA
....5	R893	CRD20TJ391T	RES, CARBON(1/5W,390ohm,J)		1	EA
....5	R894	CRD20TJ391T	RES, CARBON(1/5W,390ohm,J)		1	EA
....5	R895	CRD20TJ391T	RES, CARBON(1/5W,390ohm,J)		1	EA
....5	R896	CRD20TJ391T	RES, CARBON(1/5W,390ohm,J)		1	EA
....5	R897	CRD20TJ391T	RES, CARBON(1/5W,390ohm,J)		1	EA
....5	R901	CRD20TJ272T	RES, CARBON(1/5W,2.7Kohm,J)		1	EA
....5	R908	CRD20TJ333T	RES, CARBON(1/5W,33Kohm,J)		1	EA
....5	R909	CRD20TJ333T	RES, CARBON(1/5W,33Kohm,J)		1	EA
....5	R912	CRD20TJ332T	RES, CARBON(1/5W,3.3Kohm,J)		1	EA
....5	R915	KRG1SANJ101RT	RES, METAL(OXIDE)FILM,5%	100/1W(RADIAL)	1	EA
....5	R917	CRD25TJ393T	RES, CARBON(1/4W,39Kohm,J)		1	EA
....5	R918	CRD25TJ393T	RES, CARBON(1/4W,39Kohm,J)		1	EA
....5	R919	CRD25TJ393T	RES, CARBON(1/4W,39Kohm,J)		1	EA
....5	R920	CRD25TJ393T	RES, CARBON(1/4W,39Kohm,J)		1	EA
....5	R924	CRD20TJ473T	RES, CARBON(1/5W,47Kohm,J)		1	EA
....5	R925	CRD20TJ473T	RES, CARBON(1/5W,47Kohm,J)		1	EA
....5	R926	CRD20TJ473T	RES, CARBON(1/5W,47Kohm,J)		1	EA
....5	R927	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R928	CRD20TJ222T	RES, CARBON(1/5W,2.2Kohm,J)		1	EA
....5	R929	CRD20TJ222T	RES, CARBON(1/5W,2.2Kohm,J)		1	EA
....5	R930	CRD20TJ222T	RES, CARBON(1/5W,2.2Kohm,J)		1	EA
....5	R933	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R934	CRD20TJ153T	RES, CARBON(1/5W,15Kohm,J)		1	EA
....5	R935	CRD20TJ562T	RES, CARBON(1/5W,5.6Kohm,J)		1	EA
....5	R939	CRD20TJ472T	RES, CARBON(1/5W,4.7Kohm,J)		1	EA
....5	R940	CRD20TJ152T	RES, CARBON(1/5W,1.5Kohm,J)		1	EA
....5	R941	CRD25TJ223T	RES, CARBON(1/4W,22Kohm,J)		1	EA
....5	R942	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R943	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R944	CRD25TJ223T	RES, CARBON(1/4W,22Kohm,J)		1	EA
....5	R945	CRD25TJ223T	RES, CARBON(1/4W,22Kohm,J)		1	EA
....5	R946	CRD25TJ223T	RES, CARBON(1/4W,22Kohm,J)		1	EA
....5	R947	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R952	CRD25TJ223T	RES, CARBON(1/4W,22Kohm,J)		1	EA
....5	R953	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R954	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R955	CRD20TJ563T	RES, CARBON(1/5W,56Kohm,J)		1	EA
....5	R956	CRD20TJ274T	RES, CARBON(1/5W,270Kohm,J)		1	EA
....5	R957	CRD20TJ153T	RES, CARBON(1/5W,15Kohm,J)		1	EA
....5	R958	CRD20TJ563T	RES, CARBON(1/5W,56Kohm,J)		1	EA
....5	R959	CRD20TJ104T	RES, CARBON(1/5W,100Kohm,J)		1	EA
....5	R960	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	R961	CRD20TJ331T	RES, CARBON(1/5W,330ohm,J)		1	EA
....5	R962	CRD20TJ273T	RES, CARBON(1/5W,27Kohm,J)		1	EA
....5	R964	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 MAIN PCB ASS'Y			
....5	R965	CRD20TJ223T	RES, CARBON(1/5W,22Kohm,J)		1	EA
....5	R986	CRD20TJ102T	RES, CARBON(1/5W,1Kohm,J)		1	EA
....5	R987	CRD20TJ561T	RES, CARBON(1/5W,560ohm,J)		1	EA
....5	R988	CRD20TJ562T	RES, CARBON(1/5W,5.6Kohm,J)		1	EA
....5	R989	CRD20TJ302T	RES, CARBON(1/5W,3Kohm,J)		1	EA
....5	R991	CRD20TJ822T	RES, CARBON(1/5W,8.2Kohm,J)		1	EA
....5	R998	CRD20TJ103T	RES, CARBON(1/5W,10Kohm,J)		1	EA
....5	VR81	CVN12A221B03T	RES , SEMI FIXED (220 OHM)	NVZ6TLTAB221 / HOKURIKU	1	EA
....5	VR82	CVN12A221B03T	RES , SEMI FIXED (220 OHM)	NVZ6TLTAB221 / HOKURIKU	1	EA
....5	VR83	CVN12A221B03T	RES , SEMI FIXED (220 OHM)	NVZ6TLTAB221 / HOKURIKU	1	EA
....5	VR84	CVN12A221B03T	RES , SEMI FIXED (220 OHM)	NVZ6TLTAB221 / HOKURIKU	1	EA
....5	VR85	CVN12A221B03T	RES , SEMI FIXED (220 OHM)	NVZ6TLTAB221 / HOKURIKU	1	EA
....5	VR86	CVN12A221B03T	RES , SEMI FIXED (220 OHM)	NVZ6TLTAB221 / HOKURIKU	1	EA
....5	VR87	CVN12A221B03T	RES , SEMI FIXED (220 OHM)	NVZ6TLTAB221 / HOKURIKU	1	EA
...4		CMYAVR2650	HEAT SINK ASS'Y		1	EA
....5		CFNRDH8025S	MOTOR , FAN (80X80X25) 12V, 0.17A		1	EA
....5		CHD1A012R	SCREW , SPECIAL		14	EA
....5		CHD1A036R	SCREW , SPECIAL		4	EA
....5		CHD3A012R	SCREW , SPECIAL		12	EA
....5		CMD1A417	BRACKET , PCB	AG-D8900	2	EA
....5		CMD1A674	BRACKET , H/S		2	EA
....5		CMD1A694	BRACKET , FAN		1	EA
....5		CMY4A314	HEAT SINK AVR3650		1	EA
....5		CTB3+8JR	SCREW		6	EA
....5		CTW3+8JR	SCREW		2	EA
....5		K8AYG6260	COMPOUND , SILICONE		10	G
....5	Q652	CVT2SB1560P43M	T.R Power, 2SB1560, MT-100(TO3P) with MICA M43		1	EA
....5	Q653	CVT2SB1560P43M	T.R Power, 2SB1560, MT-100(TO3P) with MICA M43		1	EA
....5	Q654	CVT2SB1560P43M	T.R Power, 2SB1560, MT-100(TO3P) with MICA M43		1	EA
....5	Q655	CVT2SB1560P43M	T.R Power, 2SB1560, MT-100(TO3P) with MICA M43		1	EA
....5	Q657	CVT2SD2390P43M	T.R Power, 2SD2390, MT-100(TO3P) with MICA M43		1	EA
....5	Q658	CVT2SD2390P43M	T.R Power, 2SD2390, MT-100(TO3P) with MICA M43		1	EA
....5	Q659	CVT2SD2390P43M	T.R Power, 2SD2390, MT-100(TO3P) with MICA M43		1	EA
....5	Q660	CVT2SD2390P43M	T.R Power, 2SD2390, MT-100(TO3P) with MICA M43		1	EA
....5	Q661	CVT2SB1560P43M	T.R Power, 2SB1560, MT-100(TO3P) with MICA M43		1	EA
....5	Q670	CVT2SD2390P43M	T.R Power, 2SD2390, MT-100(TO3P) with MICA M43		1	EA
....5	Q803	CVT2SD2390P43M	T.R Power, 2SD2390, MT-100(TO3P) with MICA M43		1	EA
....5	Q804	CVT2SB1560P43M	T.R Power, 2SB1560, MT-100(TO3P) with MICA M43		1	EA
....5	Q805	CVT2SD2390P43M	T.R Power, 2SD2390, MT-100(TO3P) with MICA M43		1	EA
....5	Q807	CVT2SB1560P43M	T.R Power, 2SB1560, MT-100(TO3P) with MICA M43		1	EA
....5	Q851	HVTKTD600KGR	T.R , BIAS	KTD600KGR	1	EA
....5	Q852	HVTKTD600KGR	T.R , BIAS	KTD600KGR	1	EA
....5	Q853	HVTKTD600KGR	T.R , BIAS	KTD600KGR	1	EA
....5	Q854	HVTKTD600KGR	T.R , BIAS	KTD600KGR	1	EA
....5	Q855	HVTKTD600KGR	T.R , BIAS	KTD600KGR	1	EA
....5	Q856	HVTKTD600KGR	T.R , BIAS	KTD600KGR	1	EA
....5	Q857	HVTKTD600KGR	T.R , BIAS	KTD600KGR	1	EA
...4	BN14	CWB1D00718088	WIRE ASS'Y (2.5MM, 180MM, 7PIN, DUAL-DIPPING TYPE)		1	EA
...4	BN15	CWB1D00915088	WIRE ASS'Y (2.5mm, 150mm, 9pin, Dual-dipping type)		1	EA
...4	BN20	CWB3F905300UZ	WIRE ASS'Y (3.96mm, 300mm, 5pin)		1	EA
...4	BN25	CWE8112120VV	WIRE ASS'Y (1PIN,120mm,LUG,#18,RED)		1	EA
...4	BN26	CWE8112120VV	WIRE ASS'Y (1PIN,120mm,LUG,#18,RED)		1	EA
...4	CN10	CJP03GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN11	CJP08GA221ZB	FEMALE HEADER (08P,2.54mm) , STRAIGHT TYPE		1	EA
...4	CN12	CJP27GA285ZN	WAFER,FPC 1.25mm,stright	1.25-2-NP	1	EA
...4	CN61	CJP02GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN62	CJP02GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN63	CJP02GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN64	CJP02GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN65	CJP02GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN66	CJP02GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN67	CJP02GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN89	CJP02GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	CN90	CJP02GA89ZY	WAFER, YW396-NNAB(7.92mm)		1	EA
...4	CN91	CJP02GA89ZY	WAFER, YW396-NNAB(7.92mm)		1	EA
...4	CN92	CJP02KA060ZY	WAFER		1	EA
...4	CN93	CJP02GA01ZY	WAFER,YMW025(2.5mm,STRAIGHT)		1	EA
...4	C632	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
...4	C633	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
...4	C637	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
...4	C638	CCEA1JH221E	CAP , ELECT	220UF 63V	1	EA
...4	C904	KCKDKS472ME	CAP , CERAMIC(X1/Y2/SC)	0.0047UF/2.5KV	1	EA
...4	C906	CCEA1VH102E	CAP , ELECT(35V/1000uF)	KR3-35V102MG(12.5*20L)	1	EA
...4	C915	CCET63VKL5103NK	CAP , ELECT		1	EA
...4	C916	CCET63VKL5103NK	CAP , ELECT		1	EA
...4	ET92	CMD1A569	BRACKET , PCB		1	EA
...4	ET93	CMD1A387	BRACKET , PCB		1	EA
...4	IC95	CVINJU7223F50	I.C , REGULATOR(5V, TO-220F)	NJU7223F50	1	EA

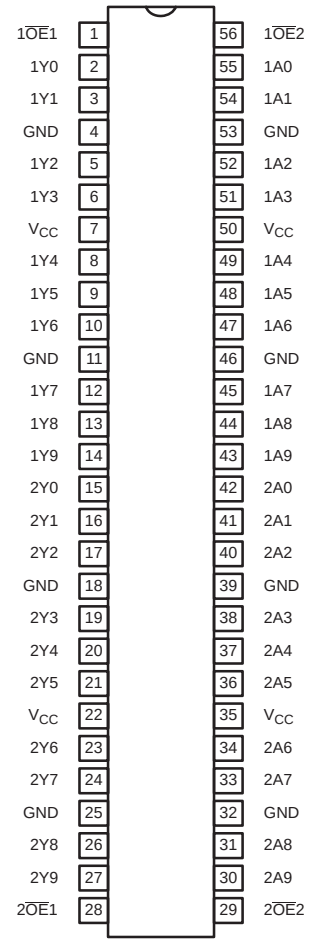
Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR265/230 MAIN PCB ASS'Y			
...4	JK90	CJJ4M070Z	JACK , 1P(PURPLE) , GOLD PLATE	RCA-107BAG-01	1	EA
...4	JK91	CJJ5R006Z	TERMINAL , SPEAKER		1	EA
...4	JK92	CJJ5Q012Z	TERMINAL , SPEAKER		1	EA
...4	JW91	CWE8112120VV	WIRE ASS'Y (1PIN,120mm,LUG,#18,RED)		1	EA
...4	L501	CLEY0R5KAK	COIL , SPEAKER(0.5uH)	SPRING COIL 8TS/KSE	1	EA
...4	L502	CLEY0R5KAK	COIL , SPEAKER(0.5uH)	SPRING COIL 8TS/KSE	1	EA
...4	L503	CLEY0R5KAK	COIL , SPEAKER(0.5uH)	SPRING COIL 8TS/KSE	1	EA
...4	L504	CLEY0R5KAK	COIL , SPEAKER(0.5uH)	SPRING COIL 8TS/KSE	1	EA
...4	L505	CLEY0R5KAK	COIL , SPEAKER(0.5uH)	SPRING COIL 8TS/KSE	1	EA
...4	L506	CLEY0R5KAK	COIL , SPEAKER(0.5uH)	SPRING COIL 8TS/KSE	1	EA
...4	L507	CLEY0R5KAK	COIL , SPEAKER(0.5uH)	SPRING COIL 8TS/KSE	1	EA
...4	Q858	HVTKTA1360Y	T.R , PRE DRIVE	KTA1360Y	1	EA
...4	Q871	HVTKTA1360Y	T.R , PRE DRIVE	KTA1360Y	1	EA
...4	Q872	HVTKTA1360Y	T.R , PRE DRIVE	KTA1360Y	1	EA
...4	Q874	HVTKTA1360Y	T.R , PRE DRIVE	KTA1360Y	1	EA
...4	Q875	HVTKTA1360Y	T.R , PRE DRIVE	KTA1360Y	1	EA
...4	Q876	HVTKTA1360Y	T.R , PRE DRIVE	KTA1360Y	1	EA
...4	Q877	HVTKTA1360Y	T.R , PRE DRIVE	KTA1360Y	1	EA
...4	Q881	HVTKTC3423Y	T.R , PRE DRIVE	KTC3423Y	1	EA
...4	Q882	HVTKTC3423Y	T.R , PRE DRIVE	KTC3423Y	1	EA
...4	Q883	HVTKTC3423Y	T.R , PRE DRIVE	KTC3423Y	1	EA
...4	Q884	HVTKTC3423Y	T.R , PRE DRIVE	KTC3423Y	1	EA
...4	Q885	HVTKTC3423Y	T.R , PRE DRIVE	KTC3423Y	1	EA
...4	Q886	HVTKTC3423Y	T.R , PRE DRIVE	KTC3423Y	1	EA
...4	Q887	HVTKTC3423Y	T.R , PRE DRIVE	KTC3423Y	1	EA
...4	RY94	CSL1C005ZE	RELAY (DC 5V, 1C1P)	HL3-1A-5SH	1	EA
...4	R656	CRF5EKR27HX2K	RES , CEMENT (0.27 OHM)		1	EA
...4	R657	CRF5EKR27HX2K	RES , CEMENT (0.27 OHM)		1	EA
...4	R658	CRF5EKR27HX2K	RES , CEMENT (0.27 OHM)		1	EA
...4	R659	CRF5EKR27HX2K	RES , CEMENT (0.27 OHM)		1	EA
...4	R660	CRF5EKR27HX2K	RES , CEMENT (0.27 OHM)		1	EA
...4	R706	CRF5EKR10HS	RES , CEMENT (SMALL SIZE)		1	EA
...4	R707	CRF5EKR10HS	RES , CEMENT (SMALL SIZE)		1	EA
...4	R810	CRF5EKR27HX2K	RES , CEMENT (0.27 OHM)		1	EA
...4	R811	CRF5EKR27HX2K	RES , CEMENT (0.27 OHM)		1	EA
...4	R905	CRG1ANJ1R0H	RES , METAL OXIDE FILM	1 OHM 1W J	1	EA
...4	R922	CRG2ANJ470H	RES , METAL OXIDE FILM	47 OHM 2W J	1	EA
...4	R923	CRG1ANJ220H	RES , METAL OXIDE FILM	22 OHM 1W J	1	EA
...4	R990	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
...4	R993	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
...4	R994	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
...4	R995	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
...4	R996	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
...4	R997	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
...4	R999	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J	1	EA
...4	TH91	KRTP42T7D330B	THERMAL SENSOR , POSISTOR	P42T7D330BW20	1	EA
...4	T902	CLT5I025ZE	TRANS , SUB (AVR156/158/165/265/365)		1	EA
..3		COP12365D	**AVRx65 DC-DC PCB ASS'Y**	DC-DC PCB, AVRX65	1	EA
....6	C123	CCUS1H473KC	CAP, CHIP(1608, 50V/0.047uF)		1	EA
....6	C124	CCUS1H473KC	CAP, CHIP(1608, 50V/0.047uF)		1	EA
....6	C127	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C135	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C136	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C920	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C921	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C922	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C923	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C924	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C925	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C926	CCEC1ACEEX151TY	CAP , ELEC SMD (150uF/10V, 8X10.5, SANYO)	10CE150EX	1	EA
....6	C936	CCUS1H473KC	CAP, CHIP(1608, 50V/0.047uF)		1	EA
....6	C937	CCUS1H473KC	CAP, CHIP(1608, 50V/0.047uF)		1	EA
....6	C950	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C951	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C952	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C953	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C954	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C955	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C956	CCEC1ACEEX151TY	CAP , ELEC SMD (150uF/10V, 8X10.5, SANYO)	10CE150EX	1	EA
....6	C960	CCEC1EHVH151TY	CAP , ELEC SMD (150uF/25V, 8X10.5, SANYO)	25HVH150M	1	EA
....6	C961	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C962	CCUS1H221JA	CAP, CHIP(1608, 50V/220pF)		1	EA
....6	C963	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C964	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C965	CCUS1H103KC	CAP, CHIP(1608, 50V/0.01uF)		1	EA
....6	C966	CCUS1H104KC	CAP, CHIP(1608, 50V/0.1uF)		1	EA
....6	C967	CCEC1ACEEX151TY	CAP , ELEC SMD (150uF/10V, 8X10.5, SANYO)	10CE150EX	1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVRx65 DC-DC PCB ASS'Y			
....6	D920	CVDSS34SR	DIODE , SCHOTTKY (40V,3A, DO-214AC) DELTA		1	EA
....6	D950	CVDSS34SR	DIODE , SCHOTTKY (40V,3A, DO-214AC) DELTA		1	EA
....6	D960	CVDSS34SR	DIODE , SCHOTTKY (40V,3A, DO-214AC) DELTA		1	EA
....6	IC90	CVISI8005QTL	IC , DCDC Converter (3.5A, SOP8) SANKEN		1	EA
....6	IC95	CVISI8005QTL	IC , DCDC Converter (3.5A, SOP8) SANKEN		1	EA
....6	IC96	CVISI8005QTL	IC , DCDC Converter (3.5A, SOP8) SANKEN		1	EA
....6	L900	CLQ12E100MRZ	COIL , SMD POWER (10UH/3A)	CMI-SPC9H45F-SERIES	1	EA
....6	L901	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L902	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L903	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L904	CLZ9Z014Z	FERRITE , CHIP BEAD(60ohm, 4516)	HCB4516KF-600T60/COILMASTER	1	EA
....6	L920	CLQ12E100MRZ	COIL , SMD POWER (10UH/3A)	CMI-SPC9H45F-SERIES	1	EA
....6	L950	CLQ12E100MRZ	COIL , SMD POWER (10UH/3A)	CMI-SPC9H45F-SERIES	1	EA
....6	L960	CLQ12E100MRZ	COIL , SMD POWER (10UH/3A)	CMI-SPC9H45F-SERIES	1	EA
....6	PCB	CUP12365Z	PCB , DC-DC (194 X 160, FR-4/2 , 4ARRAY)	194X160	0,25	EA
....6	R120	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R912	CRJ10DJ153T	RES, CHIP(1608/5%/15Kohm)		1	EA
....6	R913	CRJ10DJ153T	RES, CHIP(1608/5%/15Kohm)		1	EA
....6	R920	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R921	CRJ10DJ683T	RES, CHIP(1608/5%/68Kohm)		1	EA
....6	R922	CRJ10DJ623T	RES, CHIP(1608/5%/62Kohm)		1	EA
....6	R923	CRJ10DJ473T	RES, CHIP(1608/5%/47Kohm)		1	EA
....6	R924	CRJ10DJ0R0T	RES, CHIP(1608/5%/0ohm)		1	EA
....6	R925	CRJ10DJ512T	RES, CHIP(1608/5%/5.1Kohm)	1608 SIZE	1	EA
....6	R942	CRJ10DJ104T	RES, CHIP(1608/5%/100Kohm)		1	EA
....6	R950	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R951	CRJ10DJ683T	RES, CHIP(1608/5%/68Kohm)		1	EA
....6	R952	CRJ10DJ623T	RES, CHIP(1608/5%/62Kohm)		1	EA
....6	R953	CRJ10DJ753T	RES, CHIP(1608/5%/75Kohm)		1	EA
....6	R954	CRJ10DJ332T	RES, CHIP(1608/5%/3.3Kohm)		1	EA
....6	R955	CRJ10DJ512T	RES, CHIP(1608/5%/5.1Kohm)	1608 SIZE	1	EA
....6	R960	CRJ10DJ223T	RES, CHIP(1608/5%/22Kohm)		1	EA
....6	R961	CRJ10DJ683T	RES, CHIP(1608/5%/68Kohm)		1	EA
....6	R962	CRJ10DJ623T	RES, CHIP(1608/5%/62Kohm)		1	EA
....6	R963	CRJ10DJ273T	RES, CHIP(1608/5%/27Kohm)		1	EA
....6	R964	CRJ10DJ222T	RES, CHIP(1608/5%/2.2Kohm)		1	EA
....6	R965	CRJ10DJ512T	RES, CHIP(1608/5%/5.1Kohm)	1608 SIZE	1	EA
....5	C131	CCEA1HH4R7T	CAP , ELECT(50V/4.7uF)	KR3-50V4R7MA(5*11L)	1	EA
....5	C912	CCEA0JH102T	CAP , ELECT(1000uF/6.3V)	1000UF 6.3V	1	EA
....5	C939	CCEA1EH101T	CAP , ELECT(25V/100uF)	KR3-25V101MB(6.3*11L)	1	EA
....5	C940	CCEA1EH101T	CAP , ELECT(25V/100uF)	KR3-25V101MB(6.3*11L)	1	EA
...4	BN20	CWB1D01110058	WIRE ASS'Y		1	EA
...4	CN11	CJP08GB142ZB	PIN HEADER (08P, 2.54mm) , ANGLE TYPE		1	EA
...4	CN82	CJP07GI237ZW	LOCK-WAFER/STRAIGHT/2.5mm		1	EA
...4	CN96	CJP09GJ243ZW	LOCK-WAFER/ANGLE/2.5mm		1	EA
...4	C129	CCEA1EH103E	CAP , ELECT(25V/10000uF)22x30	KR3-025V103MM300	1	EA
...4	C929	CCEA1VH222EZ	CAP , ELECT (2200UF/35V, 12.5X31)	KR3-35V222MH1-L/C4.0	1	EA
...4	C930	CCEA1VH222EZ	CAP , ELECT (2200UF/35V, 12.5X31)	KR3-35V222MH1-L/C4.0	1	EA
...4	IC83	CVIKIA278R15PI	I.C , REGULATOR(15V OUTPUT LOW DROP)		1	EA
...4	IC84	CVIKIA7915PI	I.C , REGULATOR(15V, TO-220AB)	KIA7915PI	1	EA
..3		COP12394D	**AVR365 POWER PCB ASS'Y**	AVR365	1	EA
....5	C104	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
....5	C105	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
....5	C106	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J	1	EA
....5	C107	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
....5	C108	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J	1	EA
....5	C109	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J	1	EA
....5	C132	CCFT1H473ZF	CAP , CERAMIC	0.047UF 50V Z	1	EA
....5	C133	CCFT1H473ZF	CAP , CERAMIC	0.047UF 50V Z	1	EA
....5	C134	CCFT1H473ZF	CAP , CERAMIC	0.047UF 50V Z	1	EA
....5	C921	KCME2E104JP04T	CAP , M-FILM(250V/0.1uF)		1	EA
....5	C922	CCME2A104JXT	CAP,METAL-FILM(100V/0.1uF)	HMFS104J2AP050T	1	EA
....5	C923	CCME2A104JXT	CAP,METAL-FILM(100V/0.1uF)	HMFS104J2AP050T	1	EA
....5	C924	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	C925	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J	1	EA
....5	D114	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D115	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D116	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D117	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D124	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D125	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	D921	CVD1N4003ST	DIODE , RECT	1N4003	1	EA
....5	F110	KBA2D6300A2EYT	FUSE(382 Series, 250V, 6.3A)		1	EA
....5	F111	KBA2D6300A2EYT	FUSE(382 Series, 250V, 6.3A)		1	EA
....5	PCB	CUP12394Z	PCB , POWER (197 X 163 , FR-1 2 ARRAY)	197 X 163 ,FR-1 2 ARRAY	0,5	EA
...4	BN96	CWB1D00912058	WIRE ASS'Y (LOCKING TYPE, 2.5MM, 9PIN, 120MM)		1	EA
...4	CN20	CJP05GA90ZY	WAFER , 5P(DIP, 3.96PITCH)		1	EA

Level	Ref#	Component	Description	Drawing No	REQ-Qty	UM
			AVR365 POWER PCB ASS'Y			
...4	C135	CCEA1EH472E	CAP , ELECT(25V/4700uF)	KR3-25V472MR(16*31.5L)	1	EA
...4	D701	CVDKBU804FMA	BRIDGE DIODE ASS'Y	KBU804F	1	EA
....5		CMY1A219	HEAT SINK (BRIDGE DIODE)	AVR230/330/4600	1	EA
....5		CTB3+12JR	SCREW		1	EA
....5		HVDKBU804F	DIODE , BRIDGE		1	EA
....5		K8AYG6260	COMPOUND , SILICONE		0,5	G
...4	D991	CVDGBJ1506BIA	DIODE HEAT SINK ASS'Y (CMY2A138)		1	EA
....5		CMY2A138	HEAT SINK		1	EA
....5		CTB3+8JR	SCREW		1	EA
....5		HVDGBJ1506	DIODE , BRIDGE(15A/600V)	GBJ1506	1	EA
...4	RY21	CSL4B019ZU	RELAY	GB-2C-D24P	1	EA
...4	R104	CRQ1AJR47H	RES , FUSE		1	EA
...4	R105	CRQ1AJR47H	RES , FUSE		1	EA
..3		CRE1A076	SUPPORT , PCB		2	EA
..3		CTB3+6FFZR	SCREW		11	EA
..3		CTB3+6JR	SCREW		7	EA
..3		CTB3+8JFZR	SCREW		19	EA
..3		CTS3+8JFZR	SCREW		4	EA
..3		CTW3+12JR	SCREW		2	EA
..3		CTW3+8JR	SCREW		3	EA
..3		CUA4A294	CHASSIS , BOTTOM	SECC 1.2T	1	EA
..3		C2K86162	SOLDER , FLUX WIRE PB FREE(PIE 1.6)	HSE-04 W1.6	5	G
..3		KMC1A186	SHIELD, CUSHION		2	EA
..3	BN90	CSH1A015ZA	SWITCH , MOMS WIRE ASS'Y (2P, 80MM, RED)		1	EA
...4		CSH1A015Z	SWITCH , MOMS(OR-L-11G-BB)	OR-L-11G-BB	1	EA
...4		CWB4F202080UK	WIRE ASS'Y (3.96MM, 80MM, 2P, RED)		1	EA
..3	BN92	CWZPM5003TW91A	2P WIRE ASS'Y(100MM)		1	EA
...4	RT01	CJJ8A006ZW	RECEPTACLE , AC(15A/250V,R-301,B21)	R-301(B21)	1	EA
...4	TW91	CWZPM5003TW91	2P WIRE ASS'Y(100MM)		1	EA
..3	CN12	CWC4C4A27B100B10	CARD , CABLE (27p,1.25mm Pitch,100mm Length,Protec		1	EA
..3	F901	KBA2C6300TLEY	FUSE(218 Series, 250V, 6.3A)		1	EA
..3	T901	CLT5V058ZW	TRANS , POWER(AVR265/230)	SH9021A/Z92864A	1	EA
..3	WF104	CWC4F2A17A100A10	CARD CABLE (1.0mm , A type , 17pin , 100mm)		1	EA
..3	WF105	CWC4F2A17A080A10	CARD , CABLE (17P/1.00mm/80mm , A TYPE)	(17P/1.00MM/80MM , A TYPE)	1	EA
1		CARTAVR265-HK	REMOTE CONTROLLER(AVR265/230)		1	EA
1		CHE154	CLAMPER , ARM		0,12	M
1		CPG1A937T	BOX , OUT CARTON AVR265		1	EA
1		CPS5A564Z	PAD , SNOW L AVR155		1	EA
1		CPS5A565Z	PAD , SNOW R AVR155		1	EA
1		CQB1A907Z	LABEL , BAR CODE AVR154		1	EA
1		CQB1A978	LABEL , BAR CODE(SET)		1	EA
1		CQS1A001	RIBON , BAR CODE	SONY(TR-4070)	0,12	M
1		CQXAVR265/230	INSTRUCTION MANUAL ASS'Y		1	EA
0,2		CJA2B054Z	CORD , POWER(DETACHABLE/EUR)	2WIRE 10A/250V	1	EA
0,2		CJXAVR365MICRO	MICRO PHONE ASS'Y	CGR1A367	1	EA
0,2		CQB1A971	LABEL , BAR CODE(MANUAL)		1	EA
0,2		CQE1A488Z	SHEET , QUICK SETUP GUIDE AVR2650		1	EA
0,2		CQE1A523Z	SHEET , IMPORTANT SAFETY EUR		1	EA
0,2		CSA1A018Z	FM 1 POLE ANT		1	EA
0,2		CSA1A032Z	ANT , AM LOOP(9.5uH, 5T)	S0160BL-25/KSE	1	EA

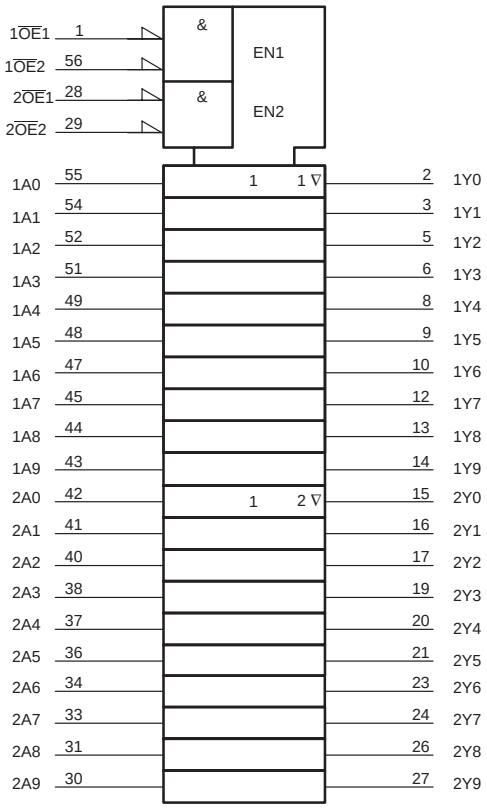
20-bit buffer/line driver, non-inverting (3-State) 74ALVCH16827

PIN CONFIGURATION



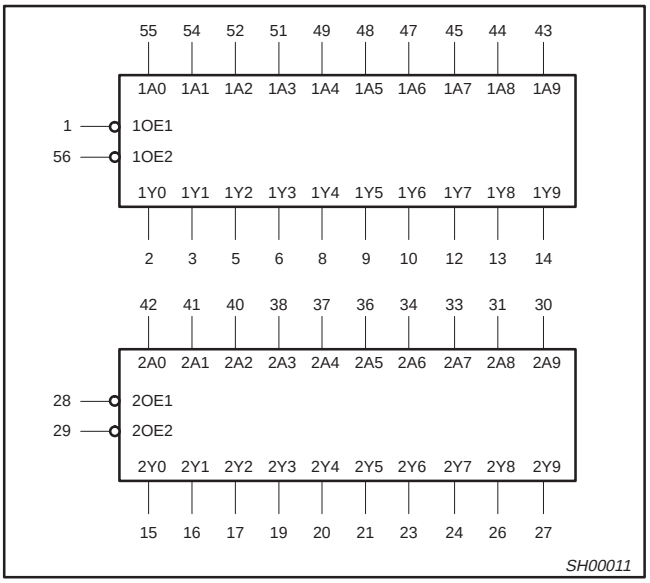
SH00010

LOGIC SYMBOL (IEEE/IEC)



SH00012

LOGIC SYMBOL



SH00011

FUNCTION TABLE

INPUTS			OUTPUTS
n$\overline{OE}$1	n$\overline{OE}$2	A	Y
L	L	L	L
L	L	H	H
H	H	X	Z
X	H	X	Z

H = High voltage level
L = Low voltage level
X = Don't care
Z = High impedance "off" state

TOSHIBA TC74HCU04AP/AF/AFN

TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

TC74HCU04AP, TC74HCU04AF, TC74HCU04AFN

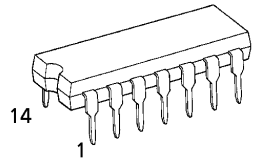
HEX INVERTER

(Note) The JEDEC SOP (FN) is not available in Japan.

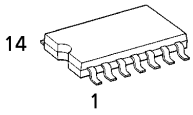
The TC74HCU04A is a high speed CMOS INVERTER fabricated with silicon gate C^2MOS technology.
It achieves the high speed operation similar to equivalent LSTTL while maintaining the CMOS low power dissipation.
Since the internal circit is composed of a single stage inverter, it can be used in analog applications such as crystal oscllators.
All inputs are equipped with protection circuits against static discharge or transient excess voltage.

FEATURES :

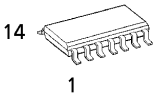
- High Speed ····· t_{pd} = 4ns(typ.) at V_{CC} = 5V
- Low Power Dissipation ····· I_{CC} = 1 μA(Max.) at Ta = 25°C
- High Noise Immunity ····· $V_{NIH} = V_{NIH}$ = 10% V_{CC} (Min.)
- Output Drive Capability ····· 10 LSTTL Loads
- Symmetrical Output Impedance ··· $|I_{OH}| = I_{OL}$ = 4mA(Min.)
- Balanced Propagation Delays ····· $t_{pLH} \simeq t_{pHL}$
- Wide Operating Voltage Range ·· V_{CC}(opr.) = 2V ~ 6V
- Pin and Function Compatible with 74LS04



P (DIP14-P-300-2.54)
Weight : 0.96g (Typ.)

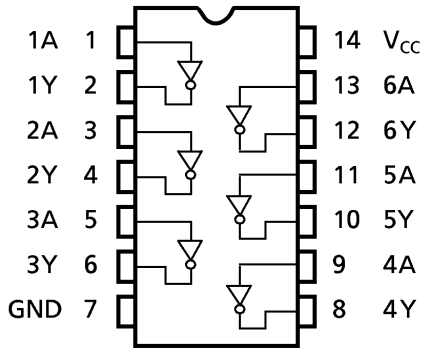


F (SOP14-P-300-1.27)
Weight : 0.18g (Typ.)



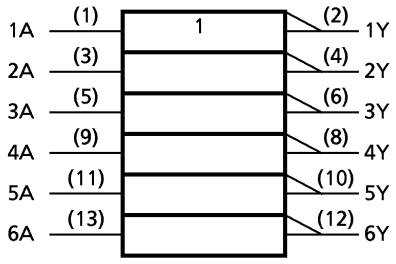
FN (SOL14-P-150-1.27)
Weight : 0.12g (Typ.)

PIN ASSIGNMENT



(TOP VIEW)

IEC LOGIC SYMBOL



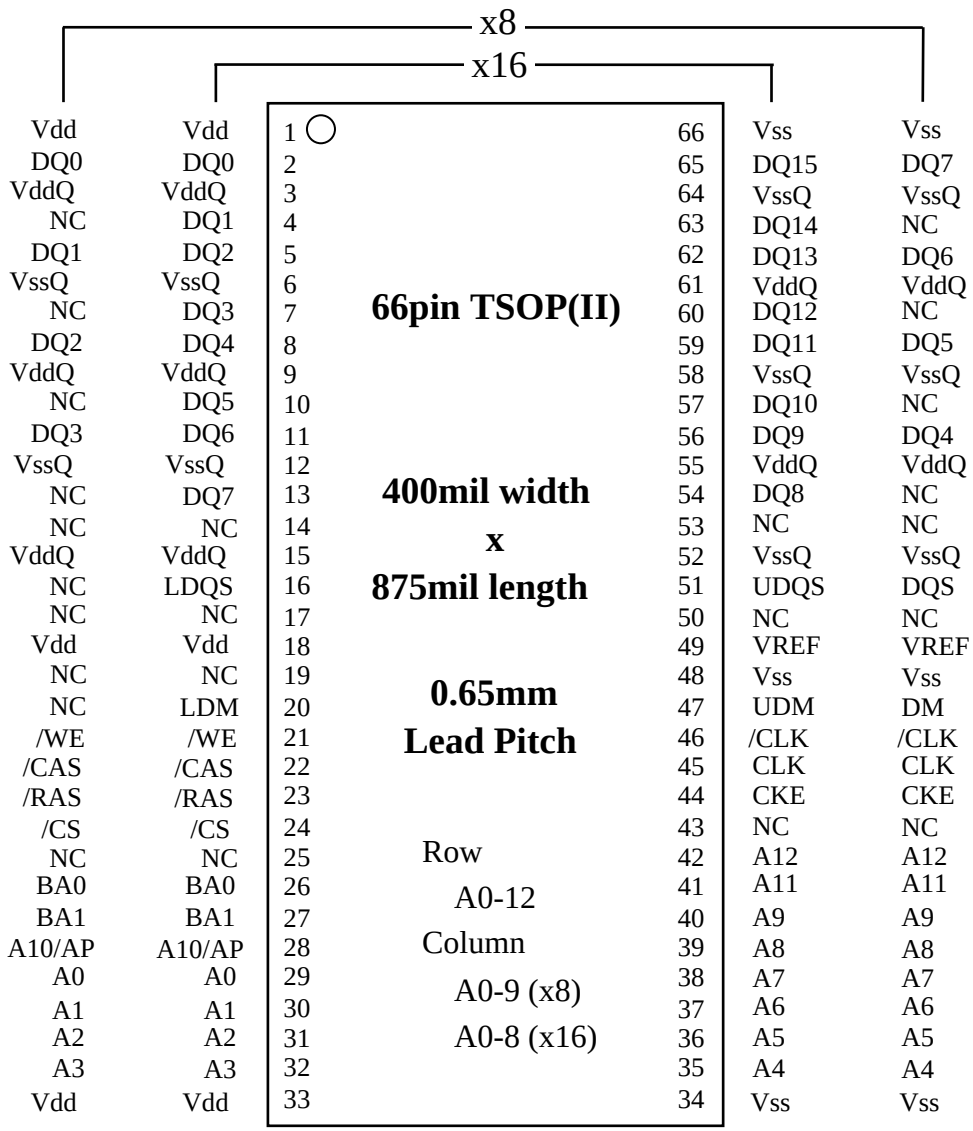
TRUTH TABLE

A	Y
L	H
H	L

961001EBA2

● TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

Pin Assignment (Top View) 66-pin TSOP



Vdd	Vdd	1	66	Vss	Vss
DQ0	DQ0	2	65	DQ15	DQ7
VddQ	VddQ	3	64	VssQ	VssQ
NC	DQ1	4	63	DQ14	NC
DQ1	DQ2	5	62	DQ13	DQ6
VssQ	VssQ	6	61	VddQ	VddQ
NC	DQ3	7	60	DQ12	NC
DQ2	DQ4	8	59	DQ11	DQ5
VddQ	VddQ	9	58	VssQ	VssQ
NC	DQ5	10	57	DQ10	NC
DQ3	DQ6	11	56	DQ9	DQ4
VssQ	VssQ	12	55	VddQ	VddQ
NC	DQ7	13	54	DQ8	NC
NC	NC	14	53	NC	NC
VddQ	VddQ	15	52	VssQ	VssQ
NC	LDQS	16	51	UDQS	DQS
NC	NC	17	50	NC	NC
Vdd	Vdd	18	49	VREF	VREF
NC	NC	19	48	Vss	Vss
NC	LDM	20	47	UDM	DM
/WE	/WE	21	46	/CLK	/CLK
/CAS	/CAS	22	45	CLK	CLK
/RAS	/RAS	23	44	CKE	CKE
/CS	/CS	24	43	NC	NC
NC	NC	25	42	A12	A12
BA0	BA0	26	41	A11	A11
BA1	BA1	27	40	A9	A9
A10/AP	A10/AP	28	39	A8	A8
A0	A0	29	38	A7	A7
A1	A1	30	37	A6	A6
A2	A2	31	36	A5	A5
A3	A3	32	35	A4	A4
Vdd	Vdd	33	34	Vss	Vss

CLK, /CLK	**: Master Clock**	**A0-12**	**: Address Input**
CKE	**: Clock Enable**	**BA0,1**	**: Bank Address Input**
/CS	**: Chip Select**	**Vdd**	**: Power Supply**
/RAS	**: Row Address Strobe**	**VddQ**	**: Power Supply for Output**
/CAS	**: Column Address Strobe**	**Vss**	**: Ground**
/WE	**: Write Enable**	**VssQ**	**: Ground for Output**
DQ0-15	**: Data I/O (x16)**	**VREF**	**: SSTL_2 reference voltage**
DQ0-7	**: Data I/O (x8)**		
UDM, LDM	**: Write Mask (x16)**		
DM	**: Write Mask (x8)**		
UDQS, LDQS	**: Data Strobe (x16)**		
DQS	**: Data Strobe (x8)**		

PIN CONFIGURATION AND FUNCTION DESCRIPTIONS

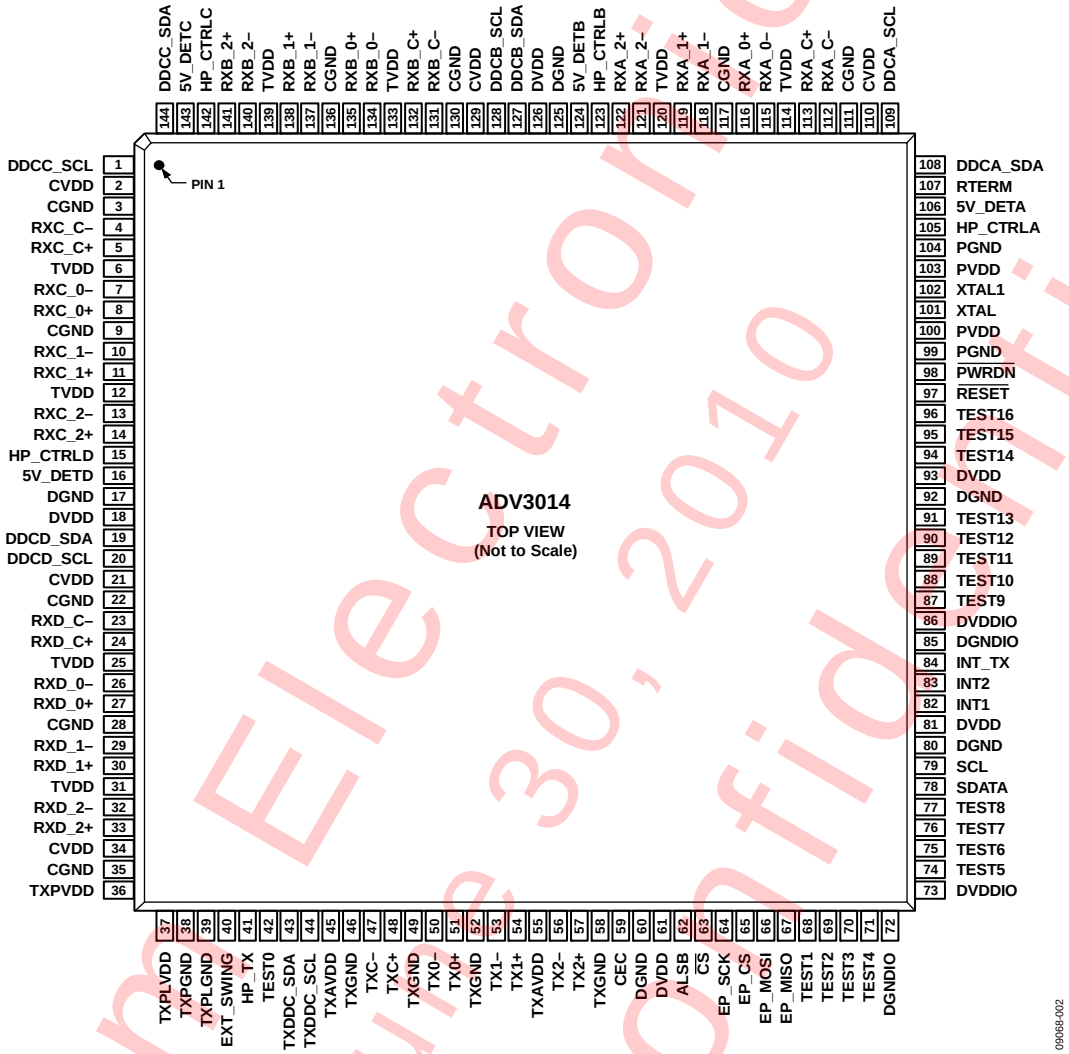


Figure 4. Pin Configuration

Table 5: Pin Function Descriptions

Pin No.	Mnemonic	Type	Description
1	DDCC_SCL	Digital input	HDCP Slave Serial Clock Port C. DDCC_SCL is a 3.3 V input that is 5 V tolerant.
2	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
3	CGND	Ground	TVDD and CVDD Ground.
4	RXC_C–	HDMI input	Digital Input Clock Complement of Port C in the HDMI Interface.
5	RXC_C+	HDMI input	Digital Input Clock True of Port C in the HDMI Interface.
6	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
7	RXC_0–	HDMI input	Digital Input Channel 0 Complement of Port C in the HDMI Interface.
8	RXC_0+	HDMI input	Digital Input Channel 0 True of Port C in the HDMI Interface.
9	CGND	Ground	TVDD and CVDD Ground.
10	RXC_1–	HDMI input	Digital Input Channel 1 Complement of Port C in the HDMI Interface.
11	RXC_1+	HDMI input	Digital Input Channel 1 True of Port C in the HDMI Interface.
12	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
13	RXC_2–	HDMI input	Digital Input Channel 2 Complement of Port C in the HDMI Interface.

Pin No.	Mnemonic	Type	Description
14	RXC_2+	HDMI input	Digital Input Channel 2 True of Port C in the HDMI Interface.
15	HP_CTRLD	Digital output	Hot Plug Control Output for Port D. This pin is 5 V tolerant.
16	5V_DETD	HDMI input	5 V Detect Pin for Port D in the HDMI Interface. This pin is 5 V tolerant.
17	DGND	Ground	DVDD Ground.
18	DVDD	Power	Digital Supply Voltage (1.8 V).
19	DDCD_SDA	Digital I/O	HDCP Slave Serial Data Port D. DDCD_SDA is a 3.3 V input that is 5 V tolerant.
20	DDCD_SCL	Digital Input	HDCP Slave Serial Clock Port D. DDCD_SCL is a 3.3 V input that is 5 V tolerant.
21	CVDD	Power	Comparator Supply Voltage (1.8 V).
22	CGND	Ground	TVDD and CVDD Ground.
23	RXD_C−	HDMI input	Digital Input Clock Complement of Port D in the HDMI Interface.
24	RXD_C+	HDMI input	Digital Input Clock True of Port D in the HDMI Interface.
25	TVDD	Power	Terminator Supply Voltage (3.3 V).
26	RXD_0-	HDMI input	Digital Input Channel 0 Complement of Port D in the HDMI Interface.
27	RXD_0+	HDMI input	Digital Input Channel 0 True of Port D in the HDMI Interface.
28	CGND	Ground	TVDD and CVDD Ground.
29	RXD_1−	HDMI input	Digital Input Channel 1 Complement of Port D in the HDMI Interface.
30	RXD_1+	HDMI input	Digital Input Channel 1 True of Port D in the HDMI Interface.
31	TVDD	Power	Terminator Supply Voltage (3.3 V).
32	RXD_2−	HDMI input	Digital Input Channel 2 Complement of Port D in the HDMI Interface.
33	RXD_2+	HDMI input	Digital Input Channel 2 True of Port D in the HDMI Interface.
34	CVDD	Power	Comparator Supply Voltage (1.8 V).
35	CGND	Ground	TVDD and CVDD Ground.
36	TXPVDD	Power	1.8 V PLL Power Supply. These pins provide power to the digital portion of the clock PLL. The designer should provide quiet, noise-free power to these pins.
37	TXPLVDD	Power	1.8 V power supply
38	TXPGND	Ground	TXPVDD Ground.
39	TXPLGND	Ground	TXPLVDD Ground
40	EXT_SWING	Analog input	Sets Internal Reference Currents. Place an 887Ω resistor (1% tolerance) between this pin and ground.
41	HP_TX	Analog input	Hot Plug Detect Signal. This pin indicates to the interface whether the receiver is connected. This pin is 5 V tolerant.
42	TEST0	Test pin	Connect to ground.
43	TXDDC_SDA	Digital I/O	Serial Port Data I/O to Receiver. This pin serves as the master to the DDC bus. This pin is 5 V tolerant.
44	TXDDC_SCL	Digital output	Serial Port Data Clock to Receiver. This pin serves as the master clock for the DDC bus. This pin is 5 V tolerant.
45	TXAVDD	Power	1.8 V Power Supply for TMDS Outputs.
46	TXGND	Ground	TXAVDD Ground.
47	TXC−	HDMI output	Differential Clock Output. Differential clock output at the TMDS clock rate; supports TMDS logic level.
48	TXC+	HDMI output	Differential Clock Output. Differential clock output at the TMDS clock rate; supports TMDS logic level.
49	TXGND	Ground	TXAVDD Ground.
50	TX0−	HDMI output	Differential Output Channel 0 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
51	TX0+	HDMI output	Differential Output Channel 0 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
52	TXGND	Ground	TXAVDD Ground.
53	TX1−	HDMI output	Differential Output Channel 1 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
54	TX1+	HDMI output	Differential Output Channel 1 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
55	TXAVDD	Power	1.8 V Power Supply for TMDS Outputs.
56	TX2−	HDMI output	Differential Output Channel 2 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.

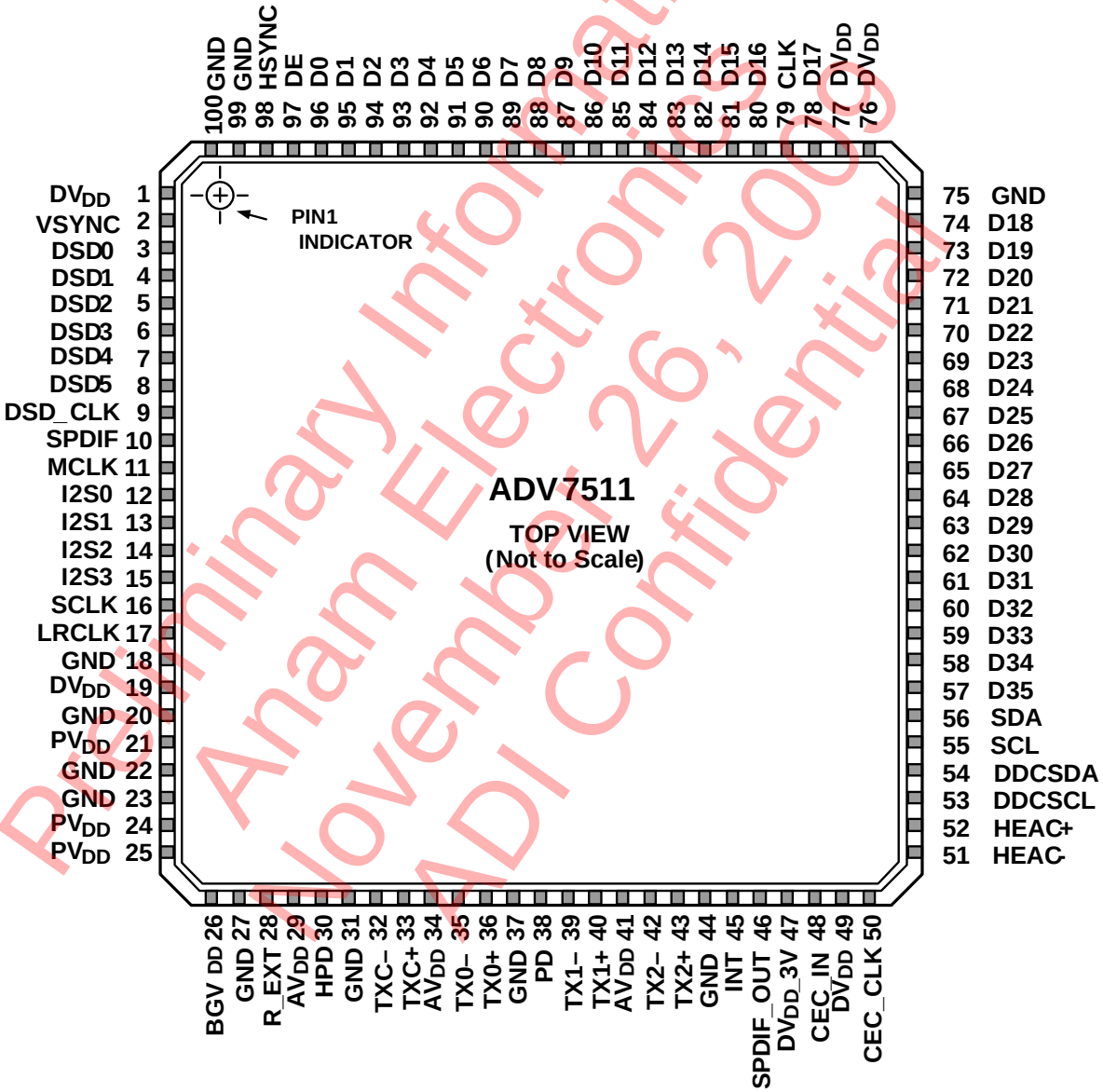
Pin No.	Mnemonic	Type	Description
57	TX2+	HDMI output	Differential Output Channel 2 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
58	TXGND	Ground	TXAVDD Ground.
59	CEC	Digital I/O	Consumer Electronics Control Channel. This pin is 5 V tolerant.
60	DGND	Ground	DVDD Ground.
61	DVDD	Power	Digital Supply Voltage (1.8 V).
62	ALSB	Digital input	This pin is used to set the I²C address of the Rx IO and the Tx main maps.
63	$\overline{CS}$	Digital input	Chip Select Pin. This pin must be set low or left floating for the chip to process I2C messages that are destined for the ADV3014. The ADV3014 ignores I2C messages that it receives if this pin is high.
64	EP_SCK	Digital output	SPI Clock Interface for the EDID.
65	EP_CS	Digital output	SPI Chip Selected Interface for the EDID.
66	EP_MOSI	Digital output	SPI Master Out/Slave In for the EDID.
67	EP_MISO	Digital input	SPI Master In/Slave Out for the EDID.
68	TEST1	Test pin	Connect to ground.
69	TEST2	Test pin	Connect to ground.
70	TEST3	Test pin	Connect to ground.
71	TEST4	Test pin	Connect to ground.
72	DGNDIO	Ground	DVDDIO Ground.
73	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
74	TEST5	Test pin	Connect to ground.
75	TEST6	Test pin	Connect to ground.
76	TEST7	Test pin	Connect to ground.
77	TEST8	Test pin	Connect to ground.
78	SDATA	Digital I/O	I²C Port Serial Data Input/Output Pin. SDATA is the data line for the control port.
79	SCL	Digital input	I²C Port Serial Clock Input. SCL is the clock line for the control port.
80	DGND	Ground	DVDD Ground.
81	DVDD	Power	Digital Supply Voltage (1.8 V).
82	INT1	Digital output	Interrupt Pin. This pin can be active low or active high. When status bits change, this pin is triggered. The events that trigger an interrupt are under user control.
83	INT2	Digital output	Interrupt Pin. This pin can be active low or active high. When status bits change, this pin is triggered. The events that trigger an interrupt are under user control.
84	INT_TX	Digital output	Interrupt; Open Drain. A 2 kΩ pull-up resistor to the microcontroller I/O supply is recommended.
85	DGNDIO	Ground	DVDDIO Ground.
86	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
87	TEST9	Test pin	Leave floating.
88	TEST10	Test pin	Leave floating.
89	TEST11	Test pin	Leave floating.
90	TEST12	Test pin	Leave floating.
91	TEST13	Test pin	Leave floating.
92	DGND	Ground	DVDD Ground.
93	DVDD	Power	Digital Supply Voltage (1.8 V).
94	TEST14	Test pin	Leave floating.
95	TEST15	Test pin	Leave floating.
96	TEST16	Test pin	Leave floating.
97	$\overline{RESET}$	Digital input	System Reset Input. Active low. A minimum low reset pulse width of 5 ms is required to reset the ADV3014 circuitry.
98	$\overline{PWRDN}$	Digital input	Active-Low Power-Down Pin. If used, this pin should be pulled high to power up the ADV3014. This pin can also be used as an in-system power detect where an internal EDID can be powered from a 5 V signal of the HDMI port when it is connected to active equipment. This pin is 5 V tolerant.
99	PGND	Ground	PVDD Ground.
100	PVDD	Power	PLL Supply Voltage (1.8 V).
101	XTAL	Miscellaneous analog	Input Pin for 28.63636 MHz Crystal or an External 1.8 V 28.63636 MHz Clock Oscillator Source to Clock the ADV3014.

Pin No.	Mnemonic	Type	Description
102	XTAL1	Miscellaneous analog	Crystal Output Pin. This pin should be left floating if a clock oscillator is used.
103	PVDD	Power	PLL Supply Voltage (1.8 V).
104	PGND	Ground	PVDD Ground.
105	HP_CTRLA	Digital output	Hot Plug Control Output for Port A. This pin is 5 V tolerant.
106	5V_DETA	Digital input	5 V Detect Pin for Port A in the HDMI Interface. This pin is 5 V tolerant.
107	RTERM	Miscellaneous analog	This pin sets the internal termination resistance. A 500 Ω resistor between this pin and ground should be used.
108	DDCA_SDA	Digital I/O	HDCP Slave Serial Data Port A. DDCA_SDA is a 3.3 V input/output that is 5 V tolerant.
109	DDCA_SCL	Digital input	HDCP Slave Serial Clock Port A. DDCA_SCL is a 3.3 V input that is 5 V tolerant.
110	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
111	CGND	Ground	TVDD and CVDD Ground.
112	RXA_C−	HDMI input	Digital Input Clock Complement of Port A in the HDMI Interface.
113	RXA_C+	HDMI input	Digital Input Clock True of Port A in the HDMI Interface.
114	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
115	RXA_0−	HDMI input	Digital Input Channel 0 Complement of Port A in the HDMI Interface.
116	RXA_0+	HDMI input	Digital Input Channel 0 True of Port A in the HDMI Interface.
117	CGND	Ground	TVDD and CVDD Ground.
118	RXA_1−	HDMI input	Digital Input Channel 1 Complement of Port A in the HDMI Interface.
119	RXA_1+	HDMI input	Digital Input Channel 1 True of Port A in the HDMI Interface.
120	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
121	RXA_2−	HDMI input	Digital Input Channel 2 Complement of Port A in the HDMI Interface.
122	RXA_2+	HDMI input	Digital Input Channel 2 True of Port A in the HDMI Interface.
123	HP_CTRLB	Digital output	Hot Plug Control Output for Port B. This pin is 5 V tolerant.
124	5V_DETB	Digital input	5 V Detect Pin for Port B in the HDMI Interface. This pin is 5 V tolerant.
125	DGND	Ground	DVDD Ground.
126	DVDD	Power	Digital Supply Voltage (1.8 V).
127	DDCB_SDA	Digital I/O	HDCP Slave Serial Data Port B. DDCB_SDA is a 3.3 V input/output that is 5 V tolerant.
128	DDCB_SCL	Digital input	HDCP Slave Serial Clock Port B. DDCB_SCL is a 3.3 V input that is 5 V tolerant.
129	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
130	CGND	Ground	TVDD and CVDD Ground.
131	RXB_C−	HDMI input	Digital Input Clock Complement of Port B in the HDMI Interface.
132	RXB_C+	HDMI input	Digital Input Clock True of Port B in the HDMI Interface.
133	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
134	RXB_0−	HDMI input	Digital Input Channel 0 Complement of Port B in the HDMI Interface.
135	RXB_0+	HDMI input	Digital Input Channel 0 True of Port B in the HDMI Interface.
136	CGND	Ground	TVDD and CVDD Ground.
137	RXB_1−	HDMI input	Digital Input Channel 1 Complement of Port B in the HDMI Interface.
138	RXB_1+	HDMI input	Digital Input Channel 1 True of Port B in the HDMI Interface.
139	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
140	RXB_2−	HDMI input	Digital Input Channel 2 Complement of Port B in the HDMI Interface.
141	RXB_2+	HDMI input	Digital Input Channel 2 True of Port B in the HDMI Interface.
142	HP_CTRLC	Digital output	Hot Plug Control Output for Port C. This pin is 5 V tolerant.
143	5V_DETC	Digital input	5 V Detect Pin for Port C in the HDMI Interface. This pin is 5 V tolerant.
144	DDCC_SDA	Digital I/O	HDCP Slave Serial Data Port C. DDCC_SDA is a 3.3 V input/output that is 5 V tolerant.

SECTION 5: PIN AND PACKAGE INFORMATION

This section shows the pinout of the ADV7511 100-lead LQFP package. This section also contains a brief description of the different pins as well as the mechanical drawings

Figure 6 100-lead LQFP configuration (top view - not to scale)



PIN CONFIGURATION AND FUNCTION DESCRIPTIONS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
A	GND	VS/FIELD	E2_TX+	E2_RX+	TVDD	RXD_2-	RXD_1-	RXD_0-	RXD_C-	HEAC_2-	TVDD	RXC_2-	RXC_1-	RXC_0-	RXC_C-	NC	TVDD	RXB_2-	RXB_1-	RXB_0-	RXB_C-	HEAC_1-	GND	A
B	HS/CS	FIELD/DE	E2_TX-	E2_RX-	TVDD	RXD_2+	RXD_1+	RXD_0+	RXD_C+	HEAC_2+	TVDD	RXC_2+	RXC_1+	RXC_0+	RXC_C+	NC	TVDD	RXB_2+	RXB_1+	RXB_0+	RXB_C+	HEAC_1+	GND	B
C	P0	P1	E1_TX+	E1_RX+	TVDD	PWRDN1	PWRDN2	HPA_D	RXD_5V	RXC_5V	TVDD	GND	GND	GND	GND	GND	GND	TVDD	TVDD	TVDD	TVDD	TVDD	TVDD	C
D	P2	P3	E1_TX-	E1_RX-	TVDD	SYNC_OUT	CEC	HPA_C	RXB_5V	HPA_B	TVDD	RXA_5V	HPA_A	DDCD_SDA	DDCD_SCL	DDCC_SDA	DDCC_SCL	RTERM	DDCB_SDA	DDCB_SCL	TVDD	RXA_2+	RXA_2-	D
E	DVDDIO	DVDDIO	GND	GND																DDCA_SDA	CVDD	RXA_1+	RXA_1-	E
F	P5	P4	EP_MISO	EP_MOSI																DDCA_SCL	CVDD	RXA_0+	RXA_0-	F
G	P7	P6	EP_CS	EP_SCK			GND	GND	GND	GND	TEST1	TEST2	GND	GND	CVDD	CVDD	CVDD			VGA_SCL	CVDD	RXA_C+	RXA_C-	G
H	P9	P8	TTX_SDA	TTX_SCL			GND	GND	GND	GND	GND	GND	GND	GND	CVDD	CVDD	CVDD			VGA_SDA	CVDD	NC	NC	H
J	P11	P10	MCLK	AP0			GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			PVDD	TEST3	GND	GND	J
K	P13	P12	AP5	SCLK			VDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			PVDD	GND	XTALN	XTALP	K
L	DVDDIO	DVDDIO	GND	GND			VDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			GND	GND	GND	GND	L
M	P15	P14	AP4	AP3			VDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			GND	GND	REFN	REFP	M
N	P17	P16	AP2	AP1			VDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			AVDD	AVDD	AVDD	AVDD	N
P	P18	P19	SCL	SDA			VDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			AVDD	AVDD	AIN11	AIN12	P
R	P20	P21	TEST4	INT1			VDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			HS_IN2/TRI7	VS_IN2/TRI8	SYNC4	AIN10	R
T	P22	P23	TEST5	INT2			VDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			GND	GND	GND	GND	T
U	DVDDIO	DVDDIO	DVDDIO	DVDDIO			VDD	VDD	VDD	VDD	VDD	VDD	VDD	VDD	GND	GND	GND			TRI4	TRI3	AIN9	AIN8	U
V	LLC	P24	RESET	AVLINK																TRI1	TRI2	SYNC3	AIN7	V
W	P25	P26	NC	SPDIF_IN																AVDD	AVDD	AVDD	AVDD	W
Y	P27	P28	GND	GND	GND	VDD_SDRAM	SDRAM_A11	SDRAM_A6	SDRAM_A2	SDRAM_CS	SDRAM_LDQS	GND	SDRAM_DQ6	SDRAM_DQ2	SDRAM_DQ15	SDRAM_DQ11	SDRAM_CKE	VDD_SDRAM	GND	AOUT	NC	AIN5	AIN6	Y
AA	P29	P30	GND	GND	GND	VDD_SDRAM	SDRAM_A9	SDRAM_A5	SDRAM_A1	SDRAM_RAS	SDRAM_DQ7	GND	SDRAM_DQ5	SDRAM_DQ1	SDRAM_DQ12	SDRAM_DQ8	SDRAM_CK	VDD_SDRAM	GND	NC	NC	SYNC2	AIN4	AA
AB	P31	P32	P34	NC	GND	DVDDIO	SDRAM_A8	SDRAM_A4	SDRAM_A0	SDRAM_BA1	SDRAM_CAS	VDD_SDRAM	SDRAM_DQ4	SDRAM_DQ0	SDRAM_DQ13	SDRAM_DQ9	SDRAM_CKN	VDD_SDRAM	GND	SYNC1	HS_IN1/TRI5	VS_IN1/TRI6	GND	AB
AC	GND	P33	P35	NC	GND	DVDDIO	SDRAM_A7	SDRAM_A3	SDRAM_A10	SDRAM_BA0	SDRAM_WE	VDD_SDRAM	SDRAM_DQ3	SDRAM_VREF	SDRAM_DQ14	SDRAM_DQ10	SDRAM_UDQS	VDD_SDRAM	GND	AIN1	AIN2	AIN3	GND	AC
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	

Figure 7. Pin Configuration

Table 6. Function Descriptions

Pin No.	Mnemonic	Type	Description
A1	GND	Ground	Ground
A2	VS/FIELD	Digital video output	VS is a vertical synchronization output signal. FIELD is a field synchronization output signal in all interlaced video modes. VS or FIELD can be configured for this pin.
A3	E2_TX+	Digital output	Digital Output Channel 2 True of Ethernet Interface
A4	E2_RX+	Digital input	Digital Input Channel 2 True of Ethernet Interface
A5	TVDD	Power	Terminator Supply Voltage (3.3 V).
A6	RXD_2-	HDMI input	Digital Input Channel 2 Complement of Port D in the HDMI Interface.
A7	RXD_1-	HDMI input	Digital Input Channel 1 Complement of Port D in the HDMI Interface.
A8	RXD_0-	HDMI input	Digital Input Channel 0 Complement of Port D in the HDMI Interface.
A9	RXD_C-	HDMI input	Digital Input Clock Complement of Port D in the HDMI Interface.
A10	HEAC_2-	HDMI input/output	HDMI Ethernet and Audio Return Channel (HEAC) Complement Channel 2 in HDMI Interface
A11	TVDD	Power	Terminator Supply Voltage (3.3 V).
A12	RXC_2-	HDMI input	Digital Input Channel 2 Complement of Port C in the HDMI Interface.
A13	RXC_1-	HDMI input	Digital Input Channel 1 Complement of Port C in the HDMI Interface.
A14	RXC_0-	HDMI input	Digital Input Channel 0 Complement of Port C in the HDMI Interface.
A15	RXC_C-	HDMI input	Digital Input Clock Complement of Port C in the HDMI Interface.
A16	NC	No connect	No Connect.
A17	TVDD	Power	Terminator Supply Voltage (3.3 V).
A18	RXB_2-	HDMI input	Digital Input Channel 2 Complement of Port B in the HDMI Interface.
A19	RXB_1-	HDMI input	Digital Input Channel 1 Complement of Port B in the HDMI Interface.
A20	RXB_0-	HDMI input	Digital Input Channel 0 Complement of Port B in the HDMI Interface.
A21	RXB_C-	HDMI input	Digital Input Clock Complement of Port B in the HDMI Interface.
A22	HEAC_1-	HDMI input/output	HDMI Ethernet and Audio Return Channel (HEAC) Complement Channel 1 in HDMI Interface
A23	GND	Ground	Ground
B1	HS/CS	Digital video output	HS is a horizontal synchronization output signal. CS (composite synchronization) signal is a single signal containing both horizontal and vertical synchronization pulses.
B2	FIELD/DE	Miscellaneous digital	DE (data enable) is a signal that indicates active pixel data. FIELD is a field synchronization output signal in all interlaced video modes. DE or FIELD can be configured for this pin.
B3	E2_TX-	Digital output	Digital Output Channel 2 Complimentary of Ethernet Interface
B4	E2_RX-	Digital input	Digital Input Channel 2 Complimentary of Ethernet Interface
B5	TVDD	Power	Terminator Supply Voltage (3.3 V).
B6	RXD_2+	HDMI input	Digital Input Channel 2 True of Port D in the HDMI Interface.
B7	RXD_1+	HDMI input	Digital Input Channel 1 True of Port D in the HDMI Interface.
B8	RXD_0+	HDMI input	Digital Input Channel 0 True of Port D in the HDMI Interface.
B9	RXD_C+	HDMI input	Digital Input Clock True of Port D in the HDMI Interface.
B10	HEAC_2+	HDMI input/output	HDMI Ethernet and Audio Return Channel (HEAC) True Channel 2 in HDMI Interface
B11	TVDD	Power	Terminator Supply Voltage (3.3 V).
B12	RXC_2+	HDMI input	Digital Input Channel 2 True Of Port C in the HDMI Interface.
B13	RXC_1+	HDMI input	Digital Input Channel 1 True Of Port C in the HDMI Interface.
B14	RXC_0+	HDMI input	Digital Input Channel 0 True Of Port C in the HDMI Interface.
B15	RXC_C+	HDMI input	Digital Input Clock True Of Port C in the HDMI Interface.
B16	NC	No Connect	No Connect.
B17	TVDD	Power	Terminator Supply Voltage (3.3 V).
B18	RXB_2+	HDMI input	Digital Input Channel 2 True of Port B in the HDMI Interface.
B19	RXB_1+	HDMI input	Digital Input Channel 1 True of Port B in the HDMI Interface.
B20	RXB_0+	HDMI input	Digital Input Channel 0 True of Port B in the HDMI Interface.
B21	RXB_C+	HDMI input	Digital Input Clock True of Port B in the HDMI Interface.

Pin No.	Mnemonic	Type	Description
B22	HEAC_1+	HDMI input/output	HDMI Ethernet and Audio Return Channel (HEAC) True Channel 1 in HDMI Interface
B23	GND	Ground	Ground
C1	P0	Digital video output	Video Pixel Output Port.
C2	P1	Digital video output	Video Pixel Output Port.
C3	E1_TX+	Digital output	Digital Output Channel 1 True of Ethernet Interface
C4	E1_RX+	Digital input	Digital Input Channel 1 True of Ethernet Interface
C5	TVDD	Power	Terminator Supply Voltage (3.3 V).
C6	$\overline{\text{PWRDN1}}$	Miscellaneous digital	Controls the Power-Up of the ADV7844. Should be connected to a digital 3.3 V I/O supply to power up the ADV7844.
C7	$\overline{\text{PWRDN2}}$	Test pin	This pin should be connected to the ground.
C8	HPA_D	Miscellaneous digital	Hot Plug Assert signal output for HDMI port D.
C9	RXD_5V	HDMI input	5 V Detect Pin for Port D in the HDMI Interface.
C10	RXC_5V	HDMI input	5 V Detect Pin for Port C in the HDMI Interface.
C11	TVDD	Power	Terminator Supply Voltage (3.3 V).
C12	GND	Ground	Ground
C13	GND	Ground	Ground
C14	GND	Ground	Ground
C15	GND	Ground	Ground
C16	GND	Ground	Ground
C17	GND	Ground	Ground
C18	TVDD	Power	Terminator Supply Voltage (3.3 V).
C19	TVDD	Power	Terminator Supply Voltage (3.3 V).
C20	TVDD	Power	Terminator Supply Voltage (3.3 V).
C21	TVDD	Power	Terminator Supply Voltage (3.3 V).
C22	TVDD	Power	Terminator Supply Voltage (3.3 V).
C23	TVDD	Power	Terminator Supply Voltage (3.3 V).
D1	P2	Digital video output	Video Pixel Output Port.
D2	P3	Digital video output	Video Pixel Output Port.
D3	E1_TX-	Digital output	Digital Output Channel 1 Complimentary of Ethernet Interface
D4	E1_RX-	Digital input	Digital Input Channel 1 Complimentary of Ethernet Interface
D5	TVDD	Power	Terminator Supply Voltage (3.3 V).
D6	SYNC_OUT	Miscellaneous digital	Sliced synchronization output.
D7	CEC	Digital input/output	Consumer Electronic Control Channel.
D8	HPA_C	Miscellaneous digital	Hot Plug Assert signal output for HDMI port C.
D9	RXB_5V	HDMI input	5 V Detect Pin for Port B in the HDMI Interface.
D10	HPA_B	Miscellaneous digital	Hot Plug Assert signal output for HDMI port B.
D11	TVDD	Power	Terminator Supply Voltage (3.3 V).
D12	RXA_5V	HDMI input	5 V Detect Pin for Port A in the HDMI Interface.
D13	HPA_A	Miscellaneous digital	Hot Plug Assert signal output for HDMI port A.
D14	DDCD_SDA	HDMI input	HDCP Slave Serial Data Port D. DDCD_SDA is a 3.3 V input that is 5 V tolerant.
D15	DDCD_SCL	HDMI input	HDCP Slave Serial Clock Port D. DDCD_SCL is a 3.3 V input that is 5 V tolerant.
D16	DDCC_SDA	HDMI input	HDCP Slave Serial Data Port C. DDCC_SDA is a 3.3 V input that is 5 V tolerant.
D17	DDCC_SCL	HDMI input	HDCP Slave Serial Clock Port C. DDCC_SCL is a 3.3 V input that is 5 V tolerant.
D18	RTERM	Miscellaneous	Sets Internal Termination Resistance. A 500 Ω resistor between this pin and

Pin No.	Mnemonic	Type	Description
		analog	GND should be used.
D19	DDCB_SDA	HDMI input	HDCP Slave Serial Data Port B. DDCB_SDA is a 3.3 V input that is 5 V tolerant.
D20	DDCB_SCL	HDMI input	HDCP Slave Serial Clock Port B. DDCB_SCL is a 3.3 V input that is 5 V tolerant.
D21	TVDD	Power	Terminator Supply Voltage (3.3 V).
D22	RXA_2+	HDMI input	Digital Input Channel 2 True of Port A in the HDMI Interface.
D23	RXA_2-	HDMI input	Digital Input Channel 2 Complement of Port A in the HDMI Interface.
E1	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
E2	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
E3	GND	Ground	Ground
E4	GND	Ground	Ground
E20	DDCA_SDA	HDMI input	HDCP Slave Serial Data Port A. DDCA_SDA is a 3.3 V input that is 5 V tolerant.
E21	CVDD	Power	Comparator Supply Voltage (1.8 V).
E22	RXA_1+	HDMI input	Digital Input Channel 1 True of Port A in the HDMI Interface.
E23	RXA_1-	HDMI input	Digital Input Channel 1 Complement of Port A in the HDMI Interface.
F1	P5	Digital video output	Video Pixel Output Port.
F2	P4	Digital video output	Video Pixel Output Port.
F3	EP_MISO	Digital output	SPI Master In/Slave Out for External EDID Interface.
F4	EP_MOSI	Digital input	SPI Master Out/Slave In for External EDID Interface.
F20	DDCA_SCL	HDMI input	HDCP Slave Serial Clock Port A. DDCA_SCL is a 3.3 V input that is 5 V tolerant.
F21	CVDD	Power	Comparator Supply Voltage (1.8 V).
F22	RXA_0+	HDMI input	Digital Input Channel 0 True of Port A in the HDMI Interface.
F23	RXA_0-	HDMI input	Digital Input Channel 0 Complement of Port A in the HDMI Interface.
G1	P7	Digital video output	Video Pixel Output Port.
G2	P6	Digital video output	Video Pixel Output Port.
G3	$\overline{\text{EP\_CS}}$	Digital output	SPI Chip Select for External EDID Interface.
G4	EP_SCK	Digital output	SPI Clock for External EDID Interface.
G7	GND	Ground	Ground
G8	GND	Ground	Ground
G9	GND	Ground	Ground
G10	GND	Ground	Ground
G11	TEST1	Test	Do Not Connect.
G12	TEST2	Test	Do Not Connect.
G13	GND	Ground	Ground
G14	GND	Ground	Ground
G15	CVDD	Power	Comparator Supply Voltage (1.8 V).
G16	CVDD	Power	Comparator Supply Voltage (1.8 V).
G17	CVDD	Power	Comparator Supply Voltage (1.8 V).
G20	VGA_SCL	Miscellaneous digital	DDC Port Serial Clock Input for VGA
G21	CVDD	Power	Comparator Supply Voltage (1.8 V).
G22	RXA_C+	HDMI input	Digital Input Clock True of Port A in the HDMI Interface.
G23	RXA_C-	HDMI input	Digital Input Clock Complement of Port A in the HDMI Interface.
H1	P9	Digital video output	Video Pixel Output Port.
H2	P8	Digital video output	Video Pixel Output Port.
H3	TTX_SDA	Miscellaneous digital	I2C Port Serial Data Input/Output Pin. SDA is the data line for the teletext port.
H4	TTX_SCL	Miscellaneous digital	I2C Port Serial Clock Input. SCL is the clock line for the teletext port.

Pin No.	Mnemonic	Type	Description
H7	GND	Ground	Ground
H8	GND	Ground	Ground
H9	GND	Ground	Ground
H10	GND	Ground	Ground
H11	GND	Ground	Ground
H12	GND	Ground	Ground
H13	GND	Ground	Ground
H14	GND	Ground	Ground
H15	CVDD	Power	Comparator Supply Voltage (1.8 V).
H16	CVDD	Power	Comparator Supply Voltage (1.8 V).
H17	CVDD	Power	Comparator Supply Voltage (1.8 V).
H20	VGA_SDA	Miscellaneous digital	DDC Port Data Clock Input for VGA
H21	CVDD	Power	Comparator Supply Voltage (1.8 V).
H22	NC	No Connect	No Connect
H23	NC	No Connect	No Connect
J1	P11	Digital video output	Video Pixel Output Port.
J2	P10	Digital video output	Video Pixel Output Port.
J3	MCLK	Miscellaneous	Audio Master Clock Output.
J4	AP0	Miscellaneous	Audio Output Pin. Pins AP0-AP5 can be configured to output SPDIF Digital Audio Output (SPDIF), High Bit Rate (HBR), Direct Stream Digital (DSD), Direct Stream Transfer (DST) or I2S.
J7	GND	Ground	Ground
J8	GND	Ground	Ground
J9	GND	Ground	Ground
J10	GND	Ground	Ground
J11	GND	Ground	Ground
J12	GND	Ground	Ground
J13	GND	Ground	Ground
J14	GND	Ground	Ground
J15	GND	Ground	Ground
J16	GND	Ground	Ground
J17	GND	Ground	Ground
J20	PVDD	Power	PLL Supply Voltage (1.8 V).
J21	TEST3	Test	Do Not Connect.
J22	GND	Ground	Ground
J23	GND	Ground	Ground
K1	P13	Digital video output	Video Pixel Output Port.
K2	P12	Digital video output	Video Pixel Output Port.
K3	AP5	Miscellaneous	Audio Output Pin. Pins AP0-AP5 can be configured to output SPDIF Digital Audio Output (SPDIF), High Bit Rate (HBR), Direct Stream Digital (DSD), Direct Stream Transfer (DST) or I2S.
K4	SCLK	Miscellaneous digital	Audio Serial Clock Output.
K7	VDD	Power	Digital Core Supply Voltage (1.8 V).
K8	GND	Ground	Ground
K9	GND	Ground	Ground
K10	GND	Ground	Ground
K11	GND	Ground	Ground
K12	GND	Ground	Ground

Pin No.	Mnemonic	Type	Description
K13	GND	Ground	Ground
K14	GND	Ground	Ground
K15	GND	Ground	Ground
K16	GND	Ground	Ground
K17	GND	Ground	Ground
K20	PVDD	Power	PLL Supply Voltage (1.8 V).
K21	GND	Ground	Ground
K22	XTALN	Miscellaneous analog	Input Pin for 28.63636 MHz Crystal.
K23	XTALP	Miscellaneous analog	Crystal Input. Input pin for 28.63636 MHz Crystal or an External 1.8 V, 28.63636 MHz Clock Oscillator Source to Clock the ADV7844.
L1	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
L2	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
L3	GND	Ground	Ground
L4	GND	Ground	Ground
L7	VDD	Power	Digital Core Supply Voltage (1.8 V).
L8	GND	Ground	Ground
L9	GND	Ground	Ground
L10	GND	Ground	Ground
L11	GND	Ground	Ground
L12	GND	Ground	Ground
L13	GND	Ground	Ground
L14	GND	Ground	Ground
L15	GND	Ground	Ground
L16	GND	Ground	Ground
L17	GND	Ground	Ground
L20	GND	Ground	Ground
L21	GND	Ground	Ground
L22	GND	Ground	Ground
L23	GND	Ground	Ground
M1	P15	Digital video output	Video Pixel Output Port.
M2	P14	Digital video output	Video Pixel Output Port.
M3	AP4	Miscellaneous	Audio Output Pin. Pins AP0-AP5 can be configured to output SPDIF Digital Audio Output (SPDIF), High Bit Rate (HBR), Direct Stream Digital (DSD), Direct Stream Transfer (DST) or I2S.
M4	AP3	Miscellaneous	Audio Output Pin. Pins AP0-AP5 can be configured to output SPDIF Digital Audio Output (SPDIF), High Bit Rate (HBR), Direct Stream Digital (DSD), Direct Stream Transfer (DST) or I2S.
M7	VDD	Power	Digital Core Supply Voltage (1.8 V).
M8	GND	Ground	Ground
M9	GND	Ground	Ground
M10	GND	Ground	Ground
M11	GND	Ground	Ground
M12	GND	Ground	Ground
M13	GND	Ground	Ground
M14	GND	Ground	Ground
M15	GND	Ground	Ground
M16	GND	Ground	Ground
M17	GND	Ground	Ground
M20	GND	Ground	Ground
M21	GND	Ground	Ground
M22	REFN	Miscellaneous	Internal Voltage Reference Output.

Pin No.	Mnemonic	Type	Description
		analog	
M23	REFP	Miscellaneous analog	Internal Voltage Reference Output.
N1	P17	Digital video output	Video Pixel Output Port.
N2	P16	Digital video output	Video Pixel Output Port.
N3	AP2	Miscellaneous	Audio Output Pin. Pins AP0-AP5 can be configured to output SPDIF Digital Audio Output (SPDIF), High Bit Rate (HBR), Direct Stream Digital (DSD), Direct Stream Transfer (DST) or I2S.
N4	AP1	Miscellaneous	Audio Output Pin. Pins AP0-AP5 can be configured to output SPDIF Digital Audio Output (SPDIF), High Bit Rate (HBR), Direct Stream Digital (DSD), Direct Stream Transfer (DST) or I2S.
N7	VDD	Power	Digital Core Supply Voltage (1.8 V).
N8	GND	Ground	Ground
N9	GND	Ground	Ground
N10	GND	Ground	Ground
N11	GND	Ground	Ground
N12	GND	Ground	Ground
N13	GND	Ground	Ground
N14	GND	Ground	Ground
N15	GND	Ground	Ground
N16	GND	Ground	Ground
N17	GND	Ground	Ground
N20	AVDD	Power	Analog Supply Voltage (1.8 V).
N21	AVDD	Power	Analog Supply Voltage (1.8 V).
N22	AVDD	Power	Analog Supply Voltage (1.8 V).
N23	AVDD	Power	Analog Supply Voltage (1.8 V).
P1	P18	Digital video output	Video Pixel Output Port.
P2	P19	Digital video output	Video Pixel Output Port.
P3	SCL	Miscellaneous digital	I^2C Port Serial Clock Input. SCL is the clock line for the control port.
P4	SDA	Miscellaneous digital	I^2C Port Serial Data Input/Output Pin. SDA is the data line for the control port.
P7	VDD	Power	Digital Core Supply Voltage (1.8 V).
P8	GND	Ground	Ground
P9	GND	Ground	Ground
P10	GND	Ground	Ground
P11	GND	Ground	Ground
P12	GND	Ground	Ground
P13	GND	Ground	Ground
P14	GND	Ground	Ground
P15	GND	Ground	Ground
P16	GND	Ground	Ground
P17	GND	Ground	Ground
P20	AVDD	Power	Analog Supply Voltage (1.8 V).
P21	AVDD	Power	Analog Supply Voltage (1.8 V).
P22	AIN11	Analog video input	Analog Video Input Channel.
P23	AIN12	Analog video input	Analog Video Input Channel.
R1	P20	Digital video output	Video Pixel Output Port.
R2	P21	Digital video output	Video Pixel Output Port.
R3	TEST4	Test	Do Not Connect.

Pin No.	Mnemonic	Type	Description
R4	INT1	Miscellaneous digital	Interrupt. This pin can be active low or active high. When status bits change, this pin is triggered. The events that trigger an interrupt are under user control.
R7	VDD	Power	Digital Core Supply Voltage (1.8 V).
R8	GND	Ground	Ground
R9	GND	Ground	Ground
R10	GND	Ground	Ground
R11	GND	Ground	Ground
R12	GND	Ground	Ground
R13	GND	Ground	Ground
R14	GND	Ground	Ground
R15	GND	Ground	Ground
R16	GND	Ground	Ground
R17	GND	Ground	Ground
R20	HS_IN2/TRI7	Miscellaneous analog	HS on Graphics Port 2. The HS input signal is used for 5-wire timing mode. This pin can also be used as a trilevel/bilevel input on the SCART or D-terminal connector. Result available via I²C.
R21	VS_IN2/TRI8	Miscellaneous analog	VS on Graphics Port 2. The VS input signal is used for 5-wire timing mode. This pin can also be used as a trilevel/bilevel input on the SCART or D-terminal connector. Result available via I²C.
R22	SYNC4	Miscellaneous analog	This is a synchronization on green or luma input (SOG/SOY) used in embedded synchronization mode. User configurable.
R23	AIN10	Analog video input	Analog Video Input Channel.
T1	P22	Digital video output	Video Pixel Output Port.
T2	P23	Digital video output	Video Pixel Output Port.
T3	TEST5	Test	Do Not Connect.
T4	INT2	Miscellaneous digital	Interrupt. This pin can be active low or active high. When status bits change, this pin is triggered. The events that trigger an interrupt are under user control.
T7	VDD	Power	Digital Core Supply Voltage (1.8 V).
T8	GND	Ground	Ground
T9	GND	Ground	Ground
T10	GND	Ground	Ground
T11	GND	Ground	Ground
T12	GND	Ground	Ground
T13	GND	Ground	Ground
T14	GND	Ground	Ground
T15	GND	Ground	Ground
T16	GND	Ground	Ground
T17	GND	Ground	Ground
T20	GND	Ground	Ground
T21	GND	Ground	Ground
T22	GND	Ground	Ground
T23	GND	Ground	Ground
U1	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
U2	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
U3	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
U4	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
U7	VDD	Power	Digital Core Supply Voltage (1.8 V).
U8	VDD	Power	Digital Core Supply Voltage (1.8 V).
U9	VDD	Power	Digital Core Supply Voltage (1.8 V).
U10	VDD	Power	Digital Core Supply Voltage (1.8 V).

Pin No.	Mnemonic	Type	Description
U11	VDD	Power	Digital Core Supply Voltage (1.8 V).
U12	VDD	Power	Digital Core Supply Voltage (1.8 V).
U13	VDD	Power	Digital Core Supply Voltage (1.8 V).
U14	VDD	Power	Digital Core Supply Voltage (1.8 V).
U15	GND	Ground	Ground
U16	GND	Ground	Ground
U17	GND	Ground	Ground
U20	TRI4	Miscellaneous analog	Trilevel/Bilevel Input on the SCART or D-Terminal Connector. Result available via I2C.
U21	TRI3	Miscellaneous analog	Trilevel/Bilevel Input on the SCART or D-Terminal Connector. Result available via I2C.
U22	AIN9	Analog video input	Analog Video Input Channel.
U23	AIN8	Analog video input	Analog Video Input Channel.
V1	LLC	Digital video output	Line-Locked Output Clock for the Pixel Data (Range is 13.5 MHz to 170 MHz).
V2	P24	Digital video output	Video Pixel Output Port.
V3	$\overline{\text{RESET}}$	Miscellaneous digital	System Reset Input. Active low. A minimum low reset pulse width of 5 ms is required to reset the ADV7844 circuitry.
V4	AVLINK	Digital input/output	Digital SCART Control Channel.
V20	TRI1	Miscellaneous analog	Trilevel/Bilevel Input on the SCART or D-Terminal Connector. Result available via I2C.
V21	TRI2	Miscellaneous analog	Trilevel/Bilevel Input on the SCART or D-Terminal Connector. Result available via I2C.
V22	SYNC3	Miscellaneous analog	This is a synchronization on green or luma input (SOG/SOY) used in embedded synchronization mode. User configurable.
V23	AIN7	Analog video input	Analog Video Input Channel.
W1	P25	Digital video output	Video Pixel Output Port.
W2	P26	Digital video output	Video Pixel Output Port.
W3	NC	No connect	No Connect.
W4	SPDIF_IN	Miscellaneous digital	Audio Clock Input Pin for SPDIF
W20	AVDD	Power	Analog Supply Voltage (1.8 V).
W21	AVDD	Power	Analog Supply Voltage (1.8 V).
W22	AVDD	Power	Analog Supply Voltage (1.8 V).
W23	AVDD	Power	Analog Supply Voltage (1.8 V).
Y1	P27	Digital video output	Video Pixel Output Port.
Y2	P28	Digital video output	Video Pixel Output Port.
Y3	GND	Ground	Ground
Y4	GND	Ground	Ground
Y5	GND	Ground	Ground
Y6	VDD_SDRAM	Power	External Memory Interface Digital Input/Output Supply (DDR 2.5 V or SDR 3.3 V).
Y7	SDRAM_A11	SDRAM interface	Address Output. Interface to external RAM address lines.
Y8	SDRAM_A6	SDRAM interface	Address Output. Interface to external RAM address lines.
Y9	SDRAM_A2	SDRAM interface	Address Output. Interface to external RAM address lines.
Y10	$\overline{\text{SDRAM\_CS}}$	SDRAM interface	Chip Select. $\overline{\text{SDRAM\_CS}}$ enables and disables the command decoder on the RAM. One of four command signals to the external SDRAM.
Y11	SDRAM_LDQS	SDRAM interface	Lower Data Strobe Pin. Data strobe pins are used for the RAM interface. This is an output with read data and an input with write data. It is edge aligned with write data and centered in read data. SDRAM_ LDQS corresponds to the data on SDRAM_DQ0 to SDRAM_
Y12	GND	Ground	Ground

Pin No.	Mnemonic	Type	Description
Y13	SDRAM_DQ6	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
Y14	SDRAM_DQ2	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
Y15	SDRAM_DQ15	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
Y16	SDRAM_DQ11	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
Y17	SDRAM_CKE	SDRAM interface	Clock Enable. This pin acts as an enable to the clock signals of the external RAM.
Y18	VDD_SDRAM	Power	External Memory Interface Digital Input/Output Supply (DDR 2.5 V or SDR 3.3 V).
Y19	GND	Ground	Ground
Y20	AOUT	Analog monitor output	Analog Monitor Output.
Y21	NC	No connect	No Connect.
Y22	AIN5	Analog video input	Analog Video Input Channel.
Y23	AIN6	Analog video input	Analog Video Input Channel.
AA1	P29	Digital video output	Video Pixel Output Port.
AA2	P30	Digital video output	Video Pixel Output Port.
AA3	GND	Ground	Ground
AA4	GND	Ground	Ground
AA5	GND	Ground	Ground
AA6	VDD_SDRAM	Power	External Memory Interface Digital Input/Output Supply (DDR 2.5 V or SDR 3.3 V).
AA7	SDRAM_A9	SDRAM interface	Address Output. Interface to external RAM address lines.
AA8	SDRAM_A5	SDRAM interface	Address Output. Interface to external RAM address lines.
AA9	SDRAM_A1	SDRAM interface	Address Output. Interface to external RAM address lines.
AA10	$\overline{\text{SDRAM\_RAS}}$	SDRAM interface	Row Address Select Command Signal. One of four command signals to the external SDRAM.
AA11	SDRAM_DQ7	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AA12	GND	Ground	Ground
AA13	SDRAM_DQ5	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AA14	SDRAM_DQ1	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AA15	SDRAM_DQ12	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AA16	SDRAM_DQ8	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AA17	SDRAM_CK	SDRAM interface	Differential Clock Output. All address and control output signals to the RAM should be sampled on the positive edge of SDRAM_CK and on the negative edge of $\overline{\text{SDRAM\_CK}}$.
AA18	VDD_SDRAM	Power	External Memory Interface Digital Input/Output Supply (DDR 2.5 V or SDR 3.3 V).
AA19	GND	Ground	Ground
AA20	NC	No connect	No Connect.
AA21	NC	No connect	No Connect.
AA22	SYNC2	Miscellaneous analog	This is a synchronization on green or luma input (SOG/SOY) used in embedded synchronization mode. User configurable.
AA23	AIN4	Analog video input	Analog Video Input Channel.
AB1	P31	Digital video output	Video Pixel Output Port.
AB2	P32	Digital video output	Video Pixel Output Port.
AB3	P34	Digital video output	Video Pixel Output Port.
AB4	NC	No connect	No Connect.
AB5	GND	Ground	Ground
AB6	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
AB7	SDRAM_A8	SDRAM interface	Address Output. Interface to external RAM address lines.
AB8	SDRAM_A4	SDRAM interface	Address Output. Interface to external RAM address lines.

Pin No.	Mnemonic	Type	Description
AB9	SDRAM_A0	SDRAM interface	Address Output. Interface to external RAM address lines.
AB10	SDRAM_BA1	SDRAM interface	Bank Address Output. Interface to external RAM bank address lines.
AB11	$\overline{\text{SDRAM\_CAS}}$	SDRAM interface	Column Address Select Command Signal. One of four command signals to the external SDRAM.
AB12	VDD_SDRAM	Power	External Memory Interface Digital Input/Output Supply (DDR 2.5 V or SDR 3.3 V).
AB13	SDRAM_DQ4	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AB14	SDRAM_DQ0	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AB15	SDRAM_DQ13	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AB16	SDRAM_DQ9	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AB17	$\overline{\text{SDRAM\_CK}}$	SDRAM interface	Differential Clock Output. All address and control output signals to the RAM should be sampled on the positive edge of SDRAM_CK and on the negative edge of $\overline{\text{SDRAM\_CK}}$.
AB18	VDD_SDRAM	Power	External Memory Interface Digital Input/Output Supply (DDR 2.5 V or SDR 3.3 V).
AB19	GND	Ground	Ground
AB20	SYNC1	Miscellaneous analog	This is a synchronization on green or luma input (SOG/SOY) used in embedded synchronization mode. User configurable.
AB21	HS_IN1/TRI5	Miscellaneous analog	HS on Graphics Port 1. The HS input signal is used for 5-wire timing mode. HS_IN1/TRI5 is a 3.3 V input that is 5 V tolerant.
AB22	VS_IN1/TRI6	Miscellaneous analog	Vertical Synchronization Input Signal. Used for 5-wire timing mode.
AB23	GND	Ground	Ground
AC1	GND	Ground	Ground
AC2	P33	Digital video output	Video Pixel Output Port.
AC3	P35	Digital video output	Video Pixel Output Port.
AC4	NC	No connect	No Connect.
AC5	GND	Ground	Ground
AC6	DVDDIO	Power	Digital I/O Supply Voltage (3.3 V).
AC7	SDRAM_A7	SDRAM interface	Address Output. Interface to external RAM address lines.
AC8	SDRAM_A3	SDRAM interface	Address Output. Interface to external RAM address lines.
AC9	SDRAM_A10	SDRAM interface	Address Output. Interface to external RAM address lines.
AC10	SDRAM_BA0	SDRAM interface	Bank Address Output. Interface to external RAM bank address lines.
AC11	$\overline{\text{SDRAM\_WE}}$	SDRAM interface	Write Enable Output Command Signal. One of four command signals to the external SDRAM.
AC12	VDD_SDRAM	Power	External Memory Interface Digital Input/Output Supply (DDR 2.5 V or SDR 3.3 V).
AC13	SDRAM_DQ3	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AC14	SDRAM_VREF	SDRAM interface	1.25 V Reference for DDR SDRAM Interface or 1.65 V for SDR.
AC15	SDRAM_DQ14	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AC16	SDRAM_DQ10	SDRAM interface	Data Bus. Interface to external RAM 16-bit data bus.
AC17	SDRAM_UDQS	SDRAM interface	Upper Data Strobe Pin. Data strobe pins for the RAM interface. This is an output with read data and an input with write data. It is edge aligned with write data and centered in read data. UDQS corresponds to the data on DQ8 to DQ16.
AC18	VDD_SDRAM	Power	External Memory Interface Digital Input/Output Supply (DDR 2.5 V or SDR 3.3 V).
AC19	GND	Ground	Ground
AC20	AIN1	Analog video input	Analog Video Input Channel.
AC21	AIN2	Analog video input	Analog Video Input Channel.
AC22	AIN3	Analog video input	Analog Video Input Channel.
AC23	GND	Ground	Ground

- Free run output mode that provides stable timing when no video input is present
- Internal color bar test pattern
- Advanced TBC with frame synchronization, which ensures nominal clock and data for nonstandard input
- Interlace-to-progressive conversion for 525i and 625i formats, enabling direct drive of HDMI Tx devices
- Color controls that include hue, brightness, saturation, and contrast

HDMI RECEIVER

The HDMI compatible receiver on the ADV7844 incorporates active equalization of the HDMI data signals. This equalization compensates for the high frequency losses inherent in HDMI and DVI cabling, especially at longer lengths and higher frequencies. It is capable of equalizing for cable lengths up to 30 meters to achieve robust receiver performance at even the highest HDMI data rates.

The HDMI receiver supports all HDTV formats up to 1080p and all display resolutions up to UXGA (1600 × 1200 at 60 Hz). HDMI 1.4 features supported include HEAC and 3D Video Format support. The ADV7844 features two ethernet interfaces. Any of the HEAC ports can be linked to either ethernet channel to support HDMI Ethernet Channel transmission. The ADV7844 supports Audio Return Channel feature on all the HEAC ports. There is an SPDIF interface on which audio input can received for Audio transmission on the HDMI input.A wide range of 3D Video formats supported including Frame packing 1080p 24Hz, 720p 50 Hz, 720p 60Hz.

With the inclusion of HDCP, displays can now receive encrypted video content. The HDMI interface of the ADV7844 allows for authentication of a video receiver, decryption of encoded data at the receiver, and renewability of that authentication during transmission, as specified by the HDCP 1.3 protocol.

When the HDMI receiver is working in strenuous conditions, the most visible errors are those that produce glitches in the synchronization signals. This is especially true when HDCP is used because the HDCP block is very sensitive to errors in synchronization signals and DE. The synchronization regeneration block is used to regenerate the DE based on the measurement of the video format being displayed, and to filter the horizontal and vertical synchronization signals to prevent glitches. HDMI Receiver supports also TERC4 error detection, used for detection of corrupted HDMI packets following a cable disconnect

The HDMI receiver offers advanced audio functionality. The receiver contains an audio mute controller that can detect a variety of conditions that may result in audible extraneous noise in the audio output. On detection of these conditions, the audio signal can be ramped to prevent audio clicks or pops. Audio output can be formatted to one of the following modes:

- L-PCM and IEC 61937
- One-bit audio also known as DSD audio.
- DST audio
- HBR audio

HDMI fast switching can be implemented as full HDCP authentication is available on the background ports. Sync measurement and status information is available for background ports.

HDMI receiver features include:

- 4:1 multiplexed HDMI receiver
- HDMI 1.4, HEAC and 3D Format support
- 225 MHz HDMI receiver
- Integrated equalizer for cable lengths up to 30 meters
- High-bandwidth Digital Content Protection (HDCP 1.3) also on background ports
- Internal HDCP keys
- 36-/30-bit Deep Color support
- PCM, HBR, DST, DSD audio packet support
- Repeater support
- Internal EDID RAM
- Hot Plug Assert output pin for each HDMI port
- CEC Controller

COMPONENT PROCESSOR

The CP section of the ADV7844 is capable of decoding and digitizing a wide range of component video formats in any color space. Component video standards supported by the CP are 525i, 625i, 525p, 625p, 720p, 1080i, 1080p, 1250i, VGA up to UXGA at 60 Hz, and many other standards.

The any-to-any, 3 × 3 CSC matrix is placed between the analog front end and the CP section. This enables YPrPb to RGB and RGB to YCrCb conversions. Many other standards of color space can be implemented using the color space converter.

The CP section contains circuitry to enable the detection of Macrovision encoded YPrPb signals for 525i, 625i, 525p, and 625p. It is designed to be fully robust when decoding these types of signals.

VBI extraction of CGMS data is performed by the CP section of the ADV7844 for interlaced, progressive, and high definition scanning rates. The data extracted can be read back over the I²C interface.

CP features include:

- 525i, 625i, 525p, 625p, 720p, 1080i, 1080p, and many other HDTV formats are supported
- Supports 720p 24/25Hz formats
- Manual adjustments including gain (contrast) and offset (brightness), hue and saturation
- Support for analog component YPrPb and RGB video formats with embedded synchronization or with separate HS, VS, or CS
- Any-to-any, 3 × 3 CSC matrix that supports YCrCb-to-RGB and RGB-to-YCrCb, fully programmable or preprogrammable configurations

- Synchronization source polarity detector (SSPD) that determines the source and polarity of the synchronization signals that accompany the input video
- Macrovision copy protection detection on component formats (525i, 625i, 525p, and 625p)
- Free run output mode that provides stable timing when no video input is present
- Arbitrary pixel sampling support for nonstandard video sources
- 170 MHz conversion rate, which supports RGB input resolutions up to 1600 × 1200 at 60 Hz
- Automatic or manual clamp-and-gain controls for graphics modes
- Contrast, brightness, hue, and saturation controls
- 32-phase DLL that allows optimum pixel clock sampling
- Automatic detection of synchronization source and polarity by SSPD block
- Standard identification enabled by STDI block
- RGB that can be color space converted to YCrCb and decimated to a 4:2:2 format for video centric back end IC interfacing
- Data enable (DE) output signal supplied for direct connection to HDMI/DVI Tx IC
- Arbitrary pixel sampling support for nonstandard video sources

OTHER FEATURES

The ADV7844 has HS, VS, FIELD, and DE output signals with programmable position, polarity, and width, and two I^2C host port interfaces (control and VBI).

The ADV7844 has programmable interrupt request output pins, including INT1, INT2. It also features a number of low power power-down modes.

The ADV7844 is provided in a 19 mm × 19 mm, RoHS-compliant CSP_BGA package, and is specified over the 0°C to +70°C temperature range.

For more detailed product information about the ADV7844, contact your local Analog Devices, Inc., sales office

Advanced Analog Circuits

Data Sheet

DUAL LOW NOISE OPERATIONAL AMPLIFIERS AZ4580

Pin Configuration

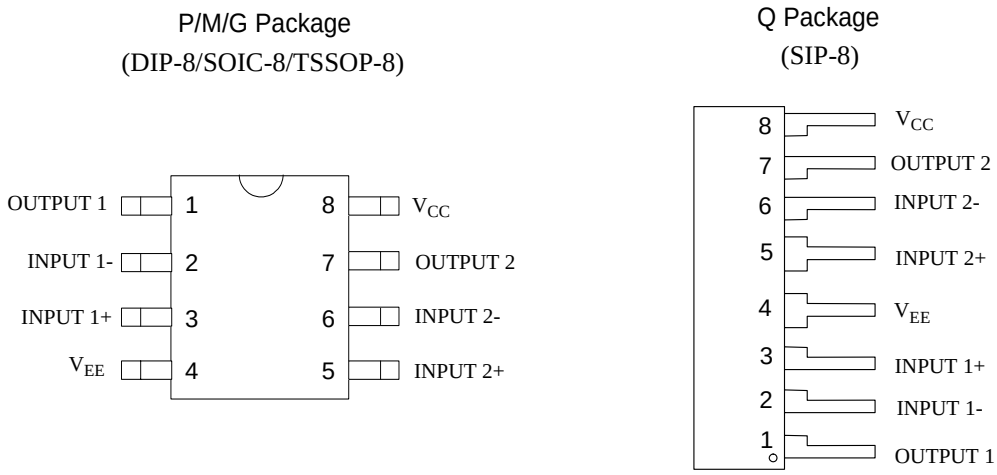
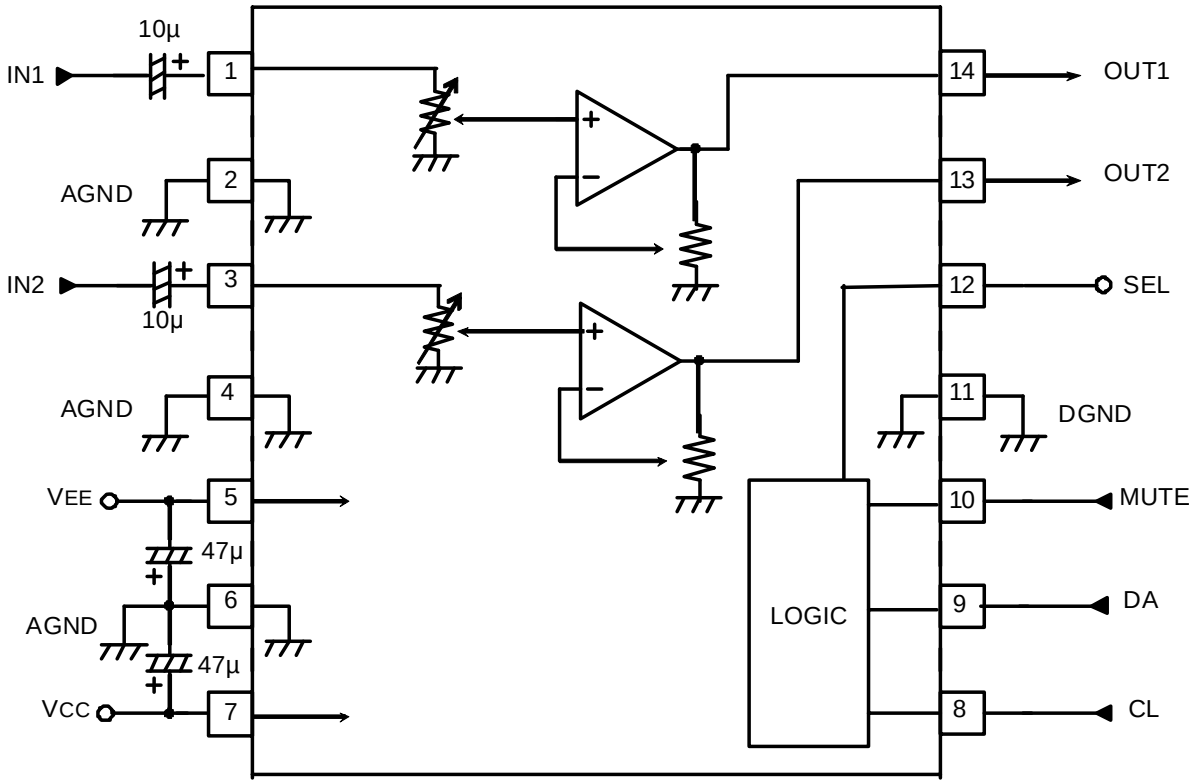


Figure 2. Pin Configuration of AZ4580 (Top View)

Pin Description

Pin No.	Function	Pin No.	Function	Pin No.	Function	Pin No.	Function
1	OUTPUT 1	2	INPUT 1-	3	INPUT 1+	4	V_{EE}
5	INPUT 2+	6	INPUT 2-	7	OUTPUT 2	8	V_{CC}

●Application circuit



UNIT
RESISTOR :Ω
CAPACITOR : F

Fig.2

●Reference data

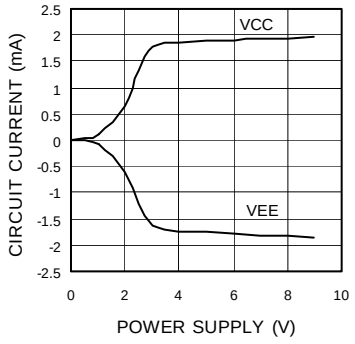


Fig.3 Circuit current - Power supply

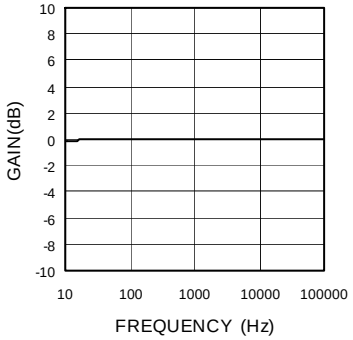


Fig.4 Voltage gain - Frequency

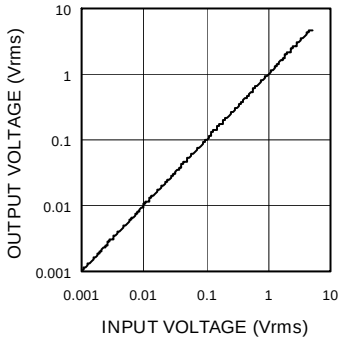


Fig.5 Output voltage - Input voltage

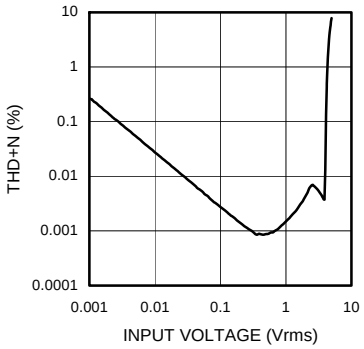


Fig.6 THD+N - Input voltage

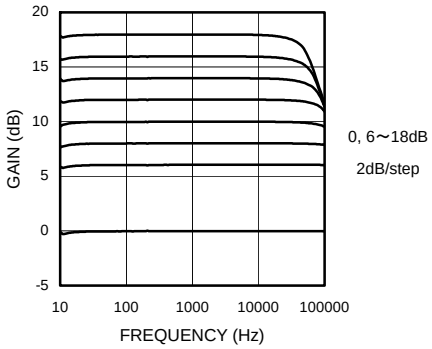


Fig.7 Output gain - Frequency

8. Device Pin-Out Diagram

8.1 128-Pin LQFP Pin-Out Diagram

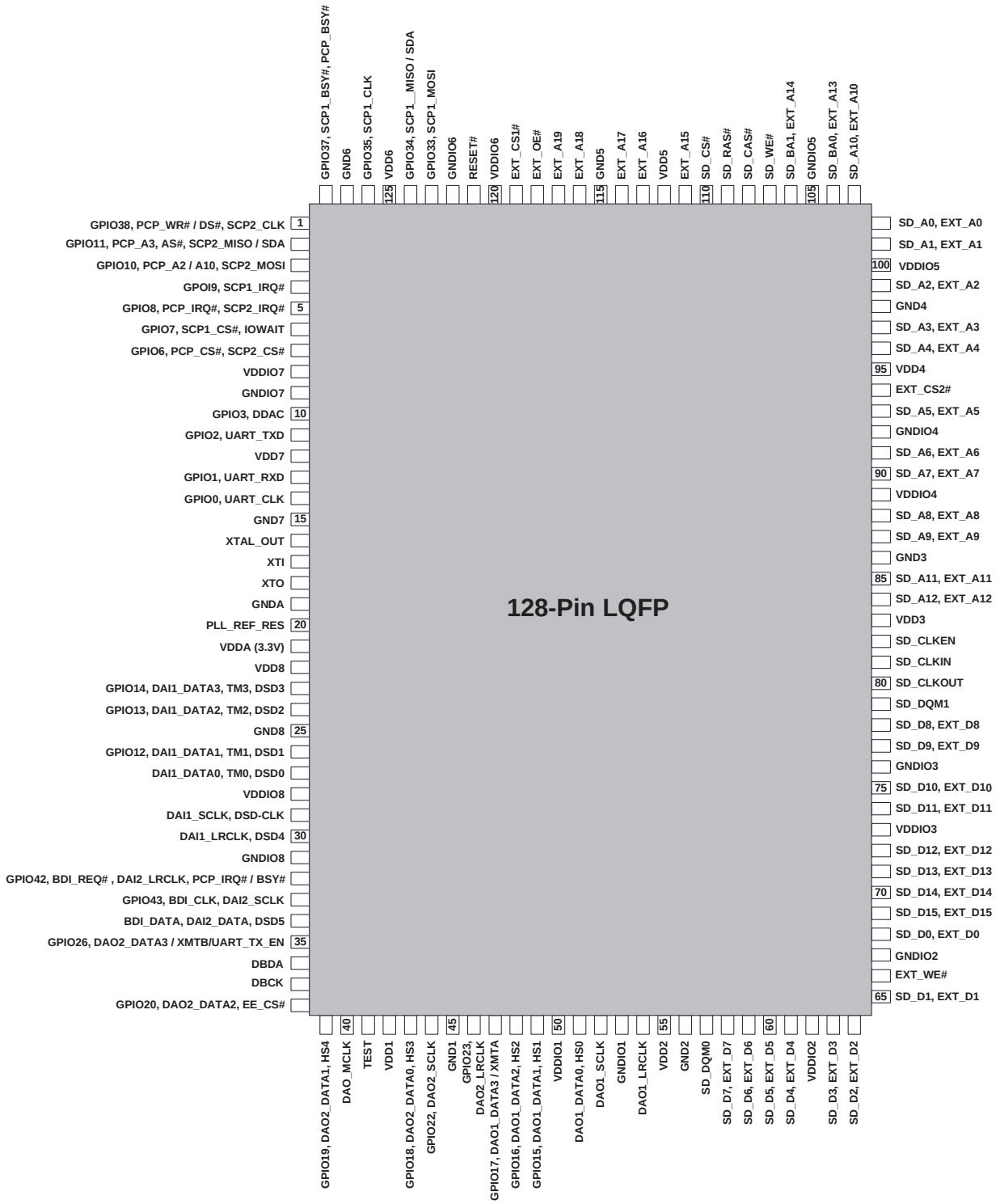


Figure 15. 128-Pin LQFP Pin-Out

8. Device Pin-Out Diagram

8.1 128-Pin LQFP Pin-Out Diagram

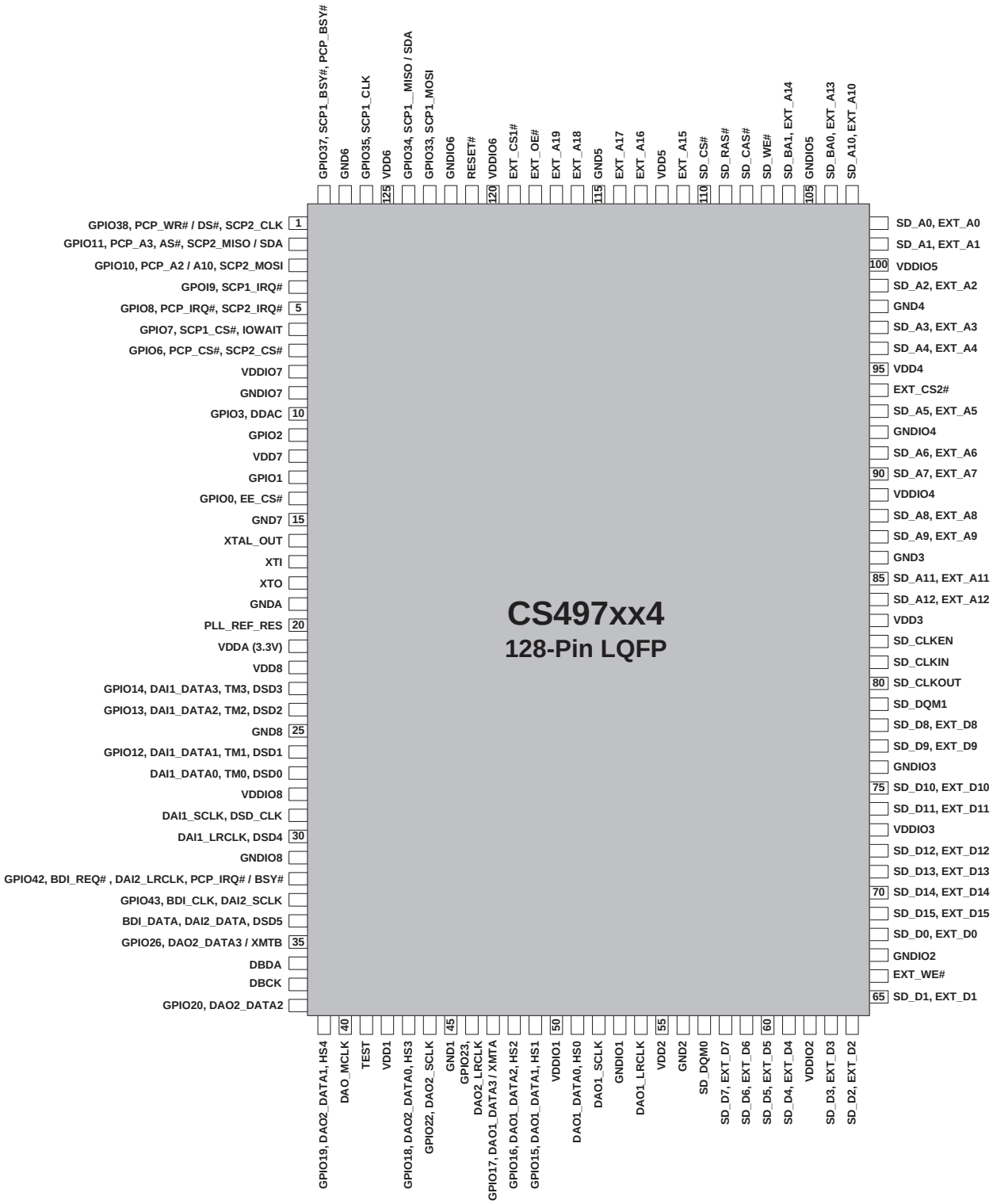
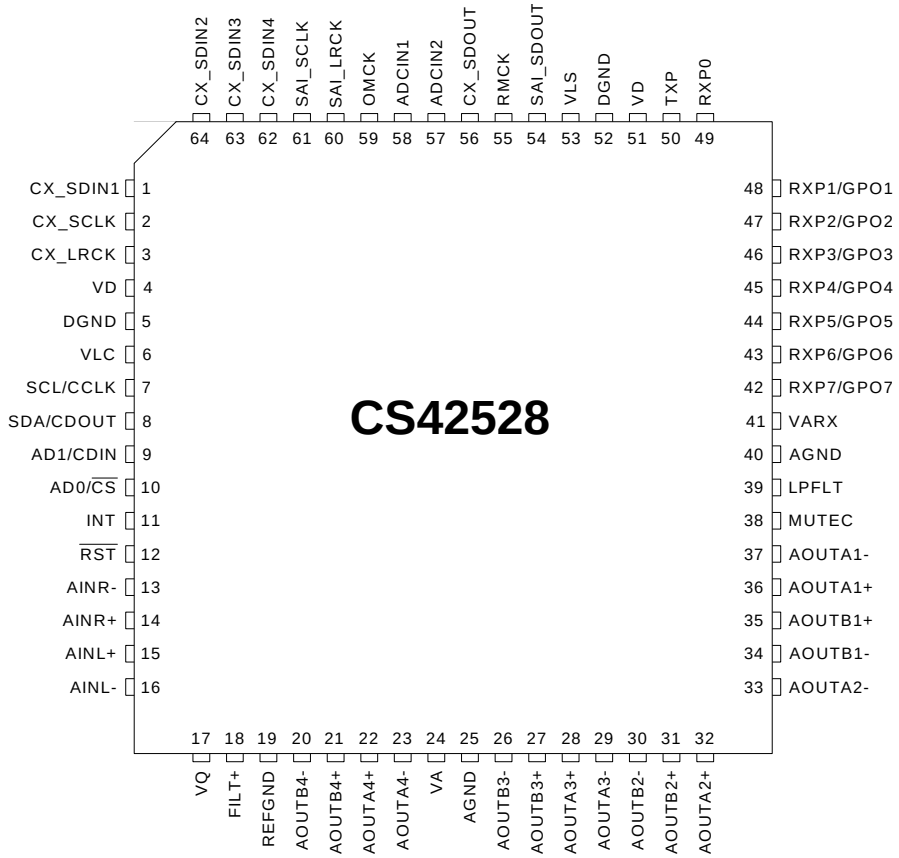


Figure 19. 128-Pin LQFP Pin-Out Diagram

2. PIN DESCRIPTIONS



Pin Name	#	Pin Description
CX_SDIN1 **CX_SDIN2** **CX_SDIN3** **CX_SDIN4**	1 64 63 62	**Codec Serial Audio Data Input** (*Input*) - Input for two's complement serial audio data.
CX_SCLK	2	**CODEC Serial Clock** *(Input/Output)* - Serial clock for the CODEC serial audio interface.
CX_LRCK	3	**CODEC Left Right Clock** (*Input*/*Output*) - Determines which channel, Left or Right, is currently active on the CODEC serial audio data line.
VD	4 51	**Digital Power** (*Input*) - Positive power supply for the digital section.
DGND	5 52	**Digital Ground** (*Input*) - Ground reference. Should be connected to digital ground.
VLC	6	**Control Port Power** (*Input*) **-** Determines the required signal level for the control port.
SCL/CCLK	7	**Serial Control Port Clock** (*Input*) - Serial clock for the serial control port. Requires an external pull-up resistor to the logic interface voltage in I^2C mode as shown in the Typical Connection Diagram.
SDA/CDOUT	8	**Serial Control Data** (*Input/Output*) **-** SDA is a data I/O line in I^2C mode and requires an external pull-up resistor to the logic interface voltage, as shown in the Typical Connection Diagram. CDOUT is the output data line for the control port interface in SPI mode.
AD1/CDIN	9	**Address Bit 1 (I^2C)/Serial Control Data (SPI)** (*Input*) - AD1 is a chip address pin in I^2C mode; CDIN is the input data line for the control port interface in SPI mode.

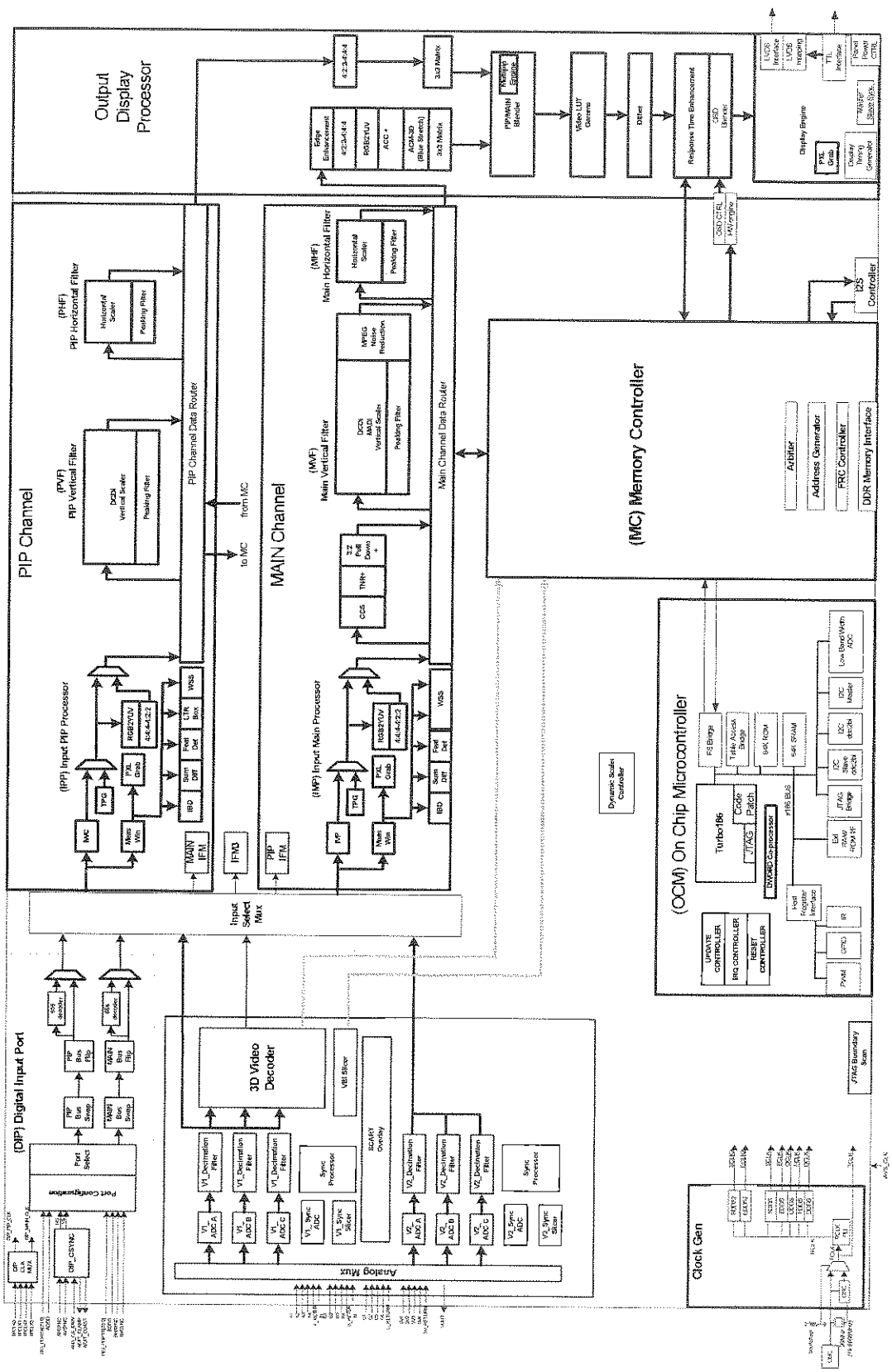


FIGURE 3. FLI30336 FUNCTIONAL BLOCK DIAGRAM

8 MECHANICAL SPECIFICATIONS

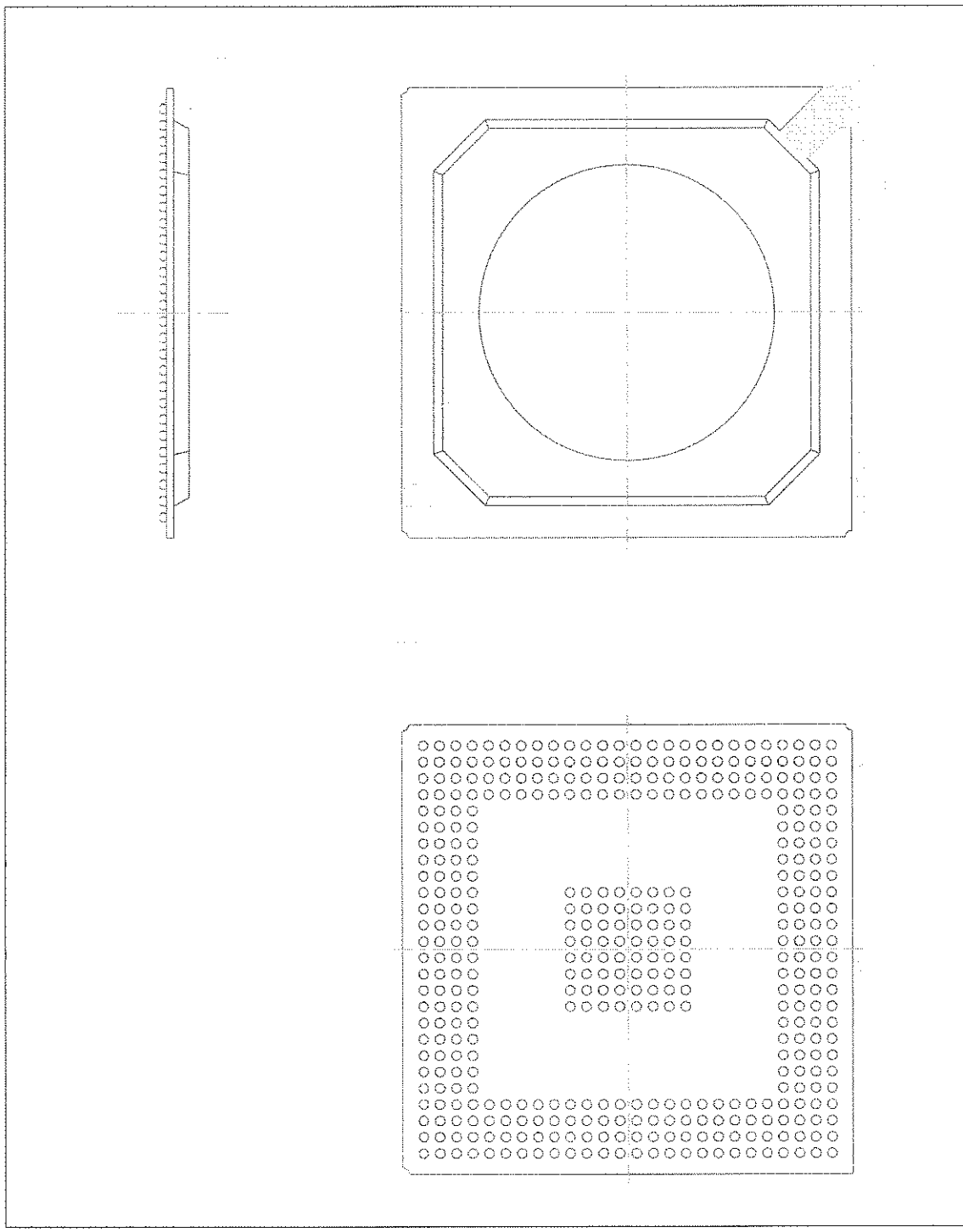


FIGURE 60. FLI30336 416-PBGA MECHANICAL DRAWING

JGD

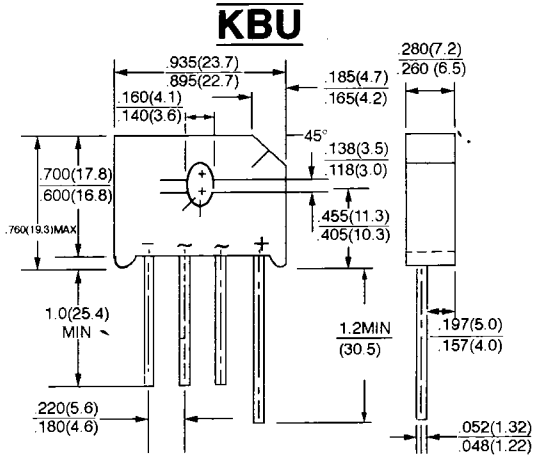
KBU800G THRU KBU810G

SINGLE PHASE 8.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

* Ideal for printed circuit board
* Reliable low cost construction
* Plastic material has Underwriters Laboratory flammability classification 94V.O
* Surge overloab rating to 200 Amperes peak.

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
8.0 Amperes



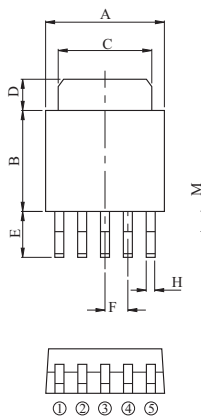
Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	KBU 800G	KBU 801G	KBU 802G	KBU 804G	KBU 806G	KBU 808G	KBU 810G	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C = 90℃^{(1)(3)}$ $T_A = 45℃^{(2)}$	$I_{F(AV)}$	8.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	175							A
Maximum Forward Voltage Drop per element @ 4.0A	V_F	1.10							V
Maximum Reverse Current at Rated @ $T_A = 25℃$ D.C.Blocking Voltage per element @ $T_A = 100℃$	I_R	10 500							μA μA
Typical thermal resistance per leg (NOTE 2) (NOTE 3)	$R_{\theta JA}$ $R_{\theta JC}$	18 3.0							℃/W
Operating Temperature Range	T_J	− 55 to + 150							℃
Storage Temperature Range	T_{STG}	− 55 to + 150							℃

NOTE:
(1) Recommended mounted position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw
(2) Units mounted in free air, no heatsink, P.C.B. 0.375″(9.5mm) lead length with 0.5 × 0.5″ (12 × 12mm) copper pads
(3) Units mounted on a 3.0 × 3.0 × 0.11″ (7.5 × 7.5 × 0.3cm) Cu. Plate heatsink



DIM	MILLIMETERS
A	6.6±0.2
B	6.1±0.2
C	5.0±0.2
D	1.10±0.2
E	2.70±0.2
F	1.27±0.1
H	0.5+0.2/-0.1
I	2.30±0.2
J	0.5±0.1
L	0.50±0.1
M	0.8±0.2
N	0 ~0.25
O	0.7MIN
P	1.00±0.1

① INPUT (V_{IN})
② ON/OFF CONTROL (V_C)
③ OUTPUT (V_O)
④ N.C (ADJUSTABLE)
⑤ GND

Heat Sink is common to ③OUTPUT

DPAK-5

KEC

SEMICONDUCTOR
TECHNICAL DATA

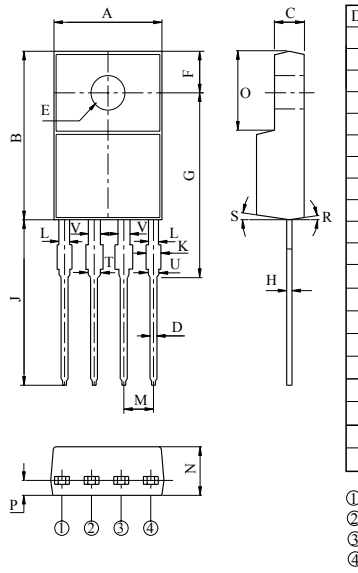
KIA278R05PI~KIA278R15PI
BIPOLAR LINEAR INTEGRATED CIRCUIT

4 TERMINAL 2A OUTPUT LOW DROP
VOLTAGE REGULATOR

The KIA278R×× Series are Low Drop Voltage Regulator suitable for various electronic equipments.
It provides constant voltage power source with TO-220 4 terminal lead full molded PKG. The Regulator has multi function such as over current protection, overheat protection and ON/OFF control.

FEATURES

- 2.0A Output Low Drop Voltage Regulator.
- Built in ON/OFF Control Terminal.
- Built in Over Current Protection, Over Heat Protection Function.



DIM	MILLIMETERS
A	10.00±0.20
B	15.00±0.20
C	2.70±0.20
D	0.60±0.10
E	Φ3.20±0.20
F	3.50±0.10
G	15.70±0.20
H	0.40±0.10
J	14.3+0.2/-0.1
K	1.45±0.10
L	1.00±0.10
M	2.54
N	4.50±0.20
O	7.5± 0.1
P	1.50±0.10
R	5°
S	8°
T	1.30±0.1
U	3-1.00±0.1
V	1.30±0.1

① DC INPUT (V_{IN})
② DC OUTPUT (V_O)
③ GND
④ ON/OFF CONTROL

TO-220IS-4

LINE UP

ITEM	OUTPUT VOLTAGE (Typ.)	UNIT
KIA278R05PI	5	V
KIA278R06PI	6	
KIA278R08PI	8	
KIA278R09PI	9	
KIA278R10PI	10	
KIA278R12PI	12	
* KIA278R15PI	15	

* Note) * : Under Development.

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT	Remark
Input Voltage	V_{IN}	35	V	-
ON/OFF Control Voltage	V_C	35	V	-
Output Current	I_O	2	A	-
Power Dissipation 1	P_{d1}	1.5	W	No heatsink
Power Dissipation 2	P_{d2}	15	W	with heatsink
Junction Temperature	T_j	125	℃	-
Operating Temperature	T_{opr}	-20～80	℃	-
Storage Temperature	T_{stg}	-30～125	℃	-
Soldering Temperature (10sec)	T_{sol}	260	℃	-

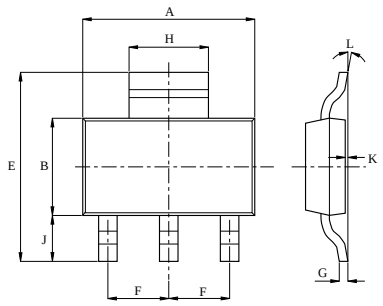
KEC

SEMICONDUCTOR
TECHNICAL DATA

KIA1117BS/BF00~ KIA1117BS/BF50
BIPOLAR LINEAR INTEGRATED CIRCUIT

LOW DROP FIXED AND ADJUSTABLE POSITIVE VOLTAGE REGULATOR

The KIA1117BS/BF × × Series are a Low Drop Voltage Regulator able to provide up to 1A of output current, available even in adjustable version (Vref=1.25V)



DIM	MILLIMETERS
A	6.5±0.2
B	3.5±0.2
C	1.8 MAX
D	0.7+0.15/-0.1
E	7±0.3
F	2.3 TYP
G	0.26+0.09/-0.02
H	3.0+0.15/-0.1
J	1.75±0.25
K	0.1 MAX
L	10° MAX

1. GND (Adj.)
2. OUTPUT
3. INPUT

Heat Sink is common to ② (Output)

SOT-223

FEATURES

· Low Dropout Voltage : 1.1V/Typ. (Iout=1.0A)
· Very Low Quiescent Current : 2.5㎃/Typ.
· Output Current up to 1A
· Fixed Output Voltage of 1.2V, 1.5V, 1.8V, 2.5V, 2.85V, 3.3V, 5.0V
· Adjustable Version Availability : Vref=1.25V
· Internal Current and Thermal Limit
· A Minimum of 10㎌ for stability
· Suitable for MLCC, Tantalum and Low ESR Electrolytic Capacitors
· ESR Range for stability : 1mΩ~200Ω
· Available in ±2%(at 25℃)
· High Ripple Rejection : 80dB/Typ
· Temperature Range : -40℃~150℃

LINE UP

ITEM	OUTPUT VOLTAGE (V)	PACKAGE
KIA1117BS/BF00	Adjustable (1.25~8V)	S : SOT-223 F : DPAK
KIA1117BS/BF12	1.2	
KIA1117BS/BF15	1.5	
KIA1117BS/BF18	1.8	
KIA1117BS/BF25	2.5	
KIA1117BS/BF28	2.85	
KIA1117BS/BF33	3.3	
KIA1117BS/BF50	5.0	

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Input Voltage		V_{IN}	10	V
Output Current		I_{OUT}	1.0	A
Power Dissipation 1 (No Heatsink)	S (Note)	P_{D1}	1.0	W
	F		1.3	
Power Dissipation 2 (Infinite Heatsink)	S	P_{D2}	8.3	W
	F		13	
Maximum Junction Temperature		$T_{j(max)}$	150	℃
Operating Junction Temperature		T_{opr}	-40~150	℃
Storage Temperature		T_{stg}	-55~150	℃

Note) Package Mounted on FR-4 PCB 36 ×18 ×1.5㎜.
: mounting pad for the GND Lead min. 6㎠

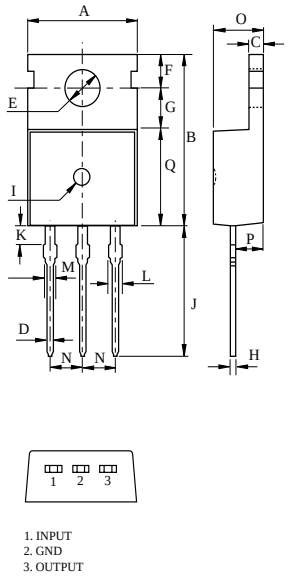
KEC **SEMICONDUCTOR** **KIA7805AP~KIA7824AP**

TECHNICAL DATA **BIPOLAR LINEAR INTEGRATED CIRCUIT**

THREE TERMINAL POSITIVE VOLTAGE REGULATORS 5V, 6V, 7V, 8V, 9V, 10V, 12V, 15V, 18V, 20V, 24V.

FEATURES

- Internal Thermal Overload Protection.
- Internal Short Circuit Current Limiting.
- Output Current up to 1.5A.
- Satisfies IEC-65 Specification. (International Electronical Commission).
- Package is TO-220AB



DIM	MILLIMETERS
A	9.9 ± 0.2
B	15.95 MAX
C	1.3+0.1/-0.05
D	0.8± 0.1
E	ø 3.6 ± 0.2
F	2.8 ± 0.1
G	3.7
H	0.5+0.1/-0.05
I	ø 1.5
J	13.08± 0.3
K	1.46
L	1.4 ± 0.1
M	1.27± 0.1
N	2.54± 0.2
O	4.5 ± 0.2
P	2.4 ± 0.2
Q	9.2 ± 0.2

TO-220AB

LINE-UP

ITEM	OUTPUT VOLTAGE (Typ.)	UNIT
KIA7805AP	5	V
KIA7806AP	6	
KIA7807AP	7	
KIA7808AP	8	
KIA7809AP	9	
KIA7810AP	10	
KIA7812AP	12	
KIA7815AP	15	
KIA7818AP	18	
KIA7820AP	20	
KIA7824AP	24	

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Input Voltage	KIA7805 ~ KIA7815	V_{IN}	35	V
	KIA7818 ~ KIA7824		40	
Power Dissipation-1 (No Heatsink)	AP	P_{D2}	1.9	W
Power Dissipation-2 (Infinite Heatsink)	AP	P_{D2}	30	
Operating Junction Temperature		T_j	-40 ~150	℃
Storage Temperature		T_{stg}	-55 ~150	℃
Maximum Junction Tamperature		$T_{j(max)}$	150	℃

KEC

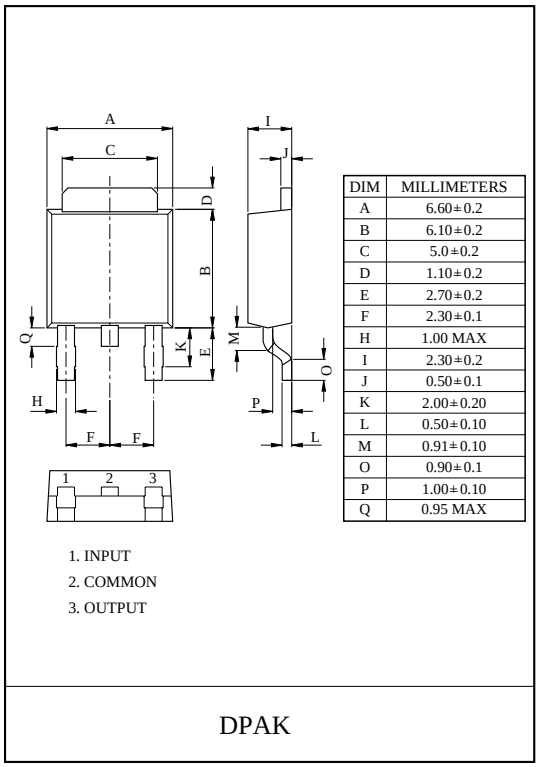
SEMICONDUCTOR
TECHNICAL DATA

KIA7805AF~KIA7824AF
BIPOLAR LINEAR INTEGRATED CIRCUIT

THREE TERMINAL POSITIVE VOLTAGE REGULATORS
5V, 6V, 8V, 9V, 10V, 12V, 15V, 18V, 20V, 24V.

FEATURES

- Suitable for C-MOS, TTL, the Other Digital IC's Power Supply.
- Internal Thermal Overload Protection.
- Internal Short Circuit Current Limiting.
- Output Current in Excess of 1A.
- Satisfies IEC-65 Specification. (International Electronical Commission).
- Package is DPAK.



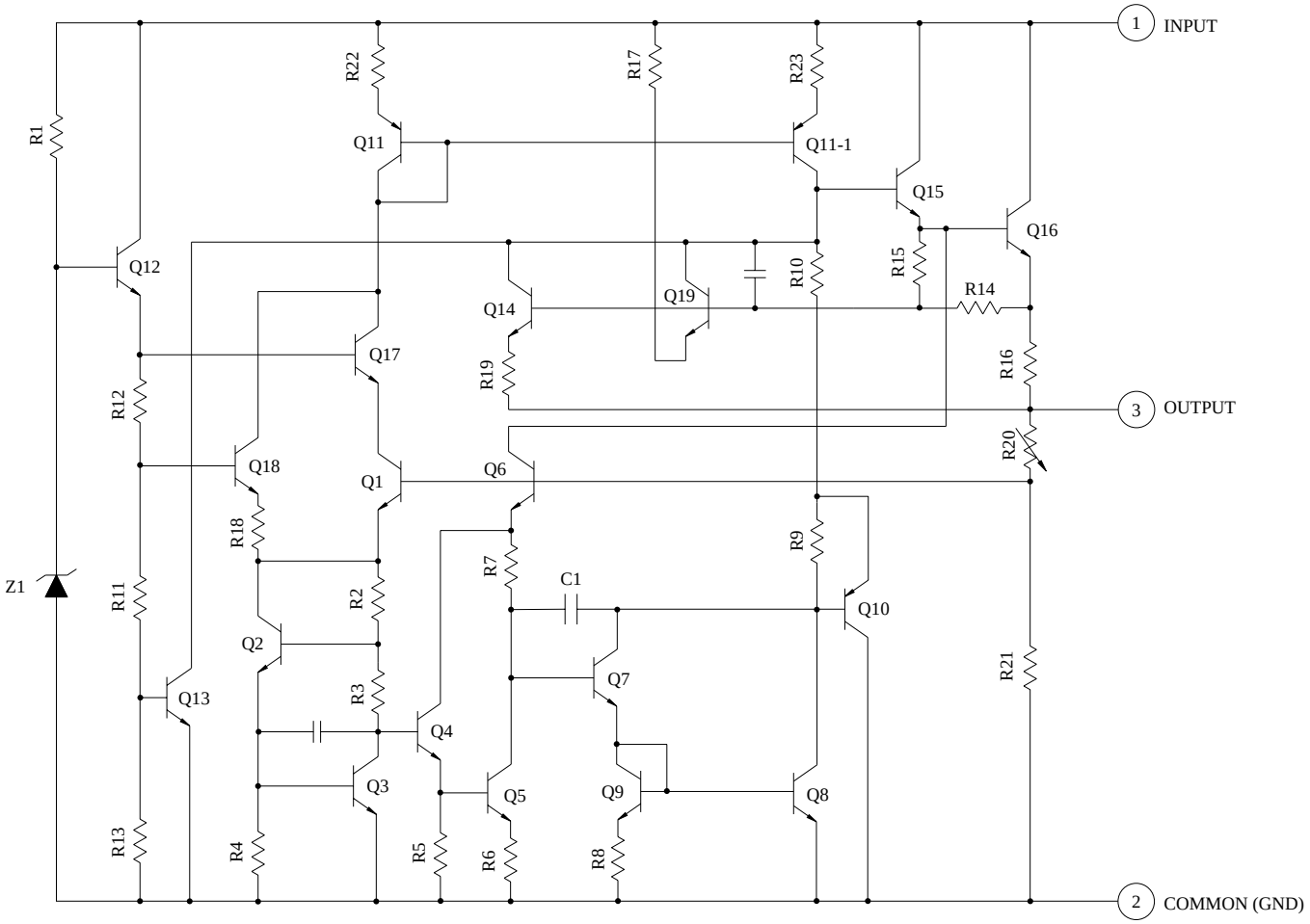
DIM	MILLIMETERS
A	6.60±0.2
B	6.10±0.2
C	5.0±0.2
D	1.10±0.2
E	2.70±0.2
F	2.30±0.1
H	1.00 MAX
I	2.30±0.2
J	0.50±0.1
K	2.00±0.20
L	0.50±0.10
M	0.91±0.10
O	0.90±0.1
P	1.00±0.10
Q	0.95 MAX

DPAK

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Input Voltage	KIA7805AF～KIA7815AF	V_{IN}	35	V
	KIA7818AF～KIA7824AF		40	
Power Dissipation (Tc=25℃)		P_D	12	W
Power Dissipation (Without Heatsink)	KIA7805AF～KIA7824AF	P_D	1.3	W
Operating Junction Temperature		T_j	-30～150	℃
Storage Temperature		T_{stg}	-55～150	℃

EQUIVALENT CIRCUIT



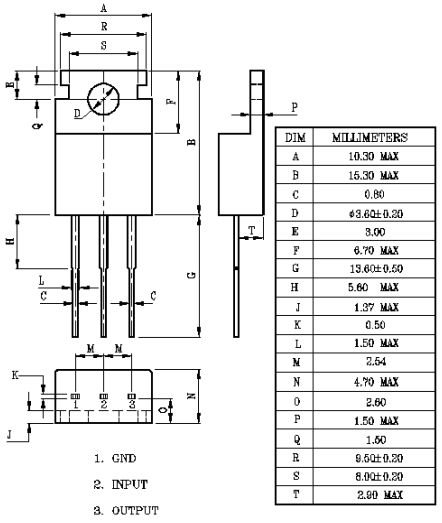
KOREA ELECTRONICS CO.,LTD.

SEMICONDUCTOR
TECHNICAL DATA

KIA7905P/PI~ KIA7924P/PI
BIPOLAR LINEAR INTEGRATED CIRCUIT

1A THREE TERMINAL NEGATIVE VOLTAGE REGULATORS
-5V, -6V, -8V, -9V, -10V, -12V, -15V, -18V, -20V, -24V

FEATURES:
- Suitable for C-MOS, TTL, and the other digital IC power supply.
- Internal thermal overload protecting.
- Internal short circuit current limiting.
- Output current in excess of 1.0A.

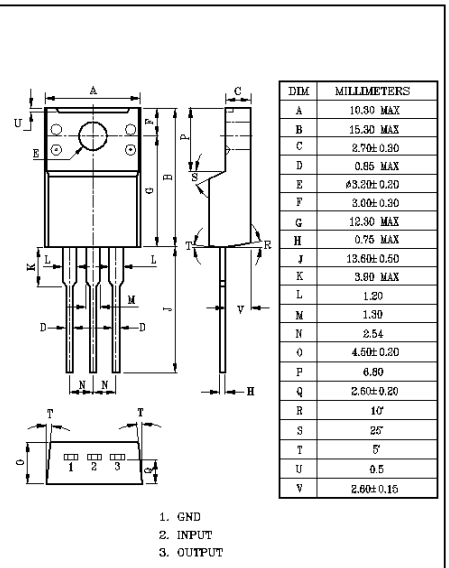


DIM	MILLIMETERS
A	10.30 MAX
B	15.30 MAX
C	0.80
D	φ3.60±0.20
E	3.00
F	6.70 MAX
G	13.60±0.50
H	5.60 MAX
J	1.37 MAX
K	0.50
L	1.50 MAX
M	2.54
N	4.70 MAX
O	2.60
P	1.50 MAX
Q	1.50
R	9.50±0.20
S	8.90±0.20
T	2.90 MAX

TO-220AB

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Input Voltage	KIA7905P/PI~ KIA7915P/PI	V_{IN}	-35	V
	KIA7918P/PI~ KIA7924P/PI		-40	
Power Dissipation (Tc=25℃)		P_D	20.8	W
Operating Junction Temperature		T_j	-30~150	℃
Operating Temperature		T_{opr}	-30~75	℃
Storage Temperature		T_{stg}	-55~150	℃



DIM	MILLIMETERS
A	10.30 MAX
B	15.30 MAX
C	2.70±0.30
D	0.85 MAX
E	φ3.20±0.20
F	3.00±0.30
G	12.30 MAX
H	0.75 MAX
J	13.60±0.50
K	3.80 MAX
L	1.20
M	1.30
N	2.54
O	4.50±0.20
P	6.80
Q	2.60±0.20
R	10°
S	25°
T	5°
U	0.5
V	2.60±0.15

TO-220IS

KEC

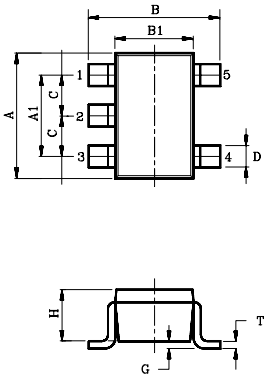
SEMICONDUCTOR
TECHNICAL DATA

KIC7SZ08FU
SILICON MONOLITHIC CMOS
DIGITAL INTEGRATED CIRCUIT

2 INPUT AND GATE

FEATURES

- High Output Drive : ±24mA (Typ.)
  @V_{CC}=3V
- Super High Speed Operation : t_{PD}=2.7ns(Typ.)
  @V_{CC}=5V, 50pF
- Operation Voltage Range : $V_{CC(opr)}$=1.8~5.5V.
- Supply Voltage Data Retention : V_{CC}=1.5~5.5V.
- 5V Tolerant Function



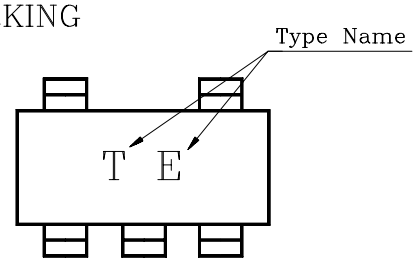
DIM	MILLIMETERS
A	2.00± 0.20
A1	1.3± 0.1
B	2.1± 0.1
B1	1.25± 0.1
C	0.65
D	0.2+0.10/−0.05
G	0~0.1
H	0.9± 0.1
T	0.15+0.1/−0.05

USV

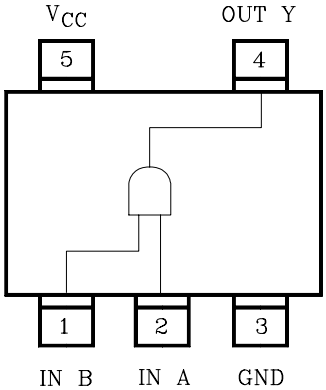
MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage Range	V_{CC}	-0.5~6	V
DC Input Voltage	V_{IN}	-0.5~6	V
DC Output Voltage	V_{OUT}	-0.5~6	V
Input Diode Current	I_{IK}	±20	mA
Output Diode Current	I_{OK}	±20	mA
DC Output Current	I_{OUT}	±50	mA
DC V_{CC}/Ground Current	I_{CC}	±50	mA
Power Dissipation	P_D	200	mW
Storage Temperature	T_{stg}	-65~150	℃
Lead Temperature (10s)	T_L	260	℃

MARKING



PIN CONNECTION(TOP VIEW)



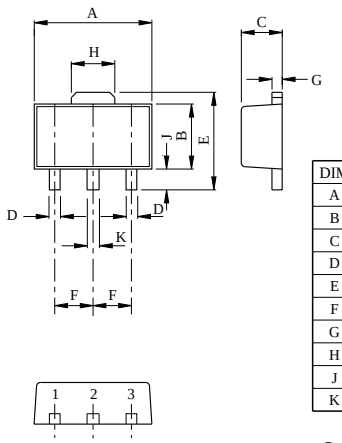
KEC

SEMICONDUCTOR
TECHNICAL DATA

KIC3201S/T-12 ~ KIC3201S/T-60
CMOS Linear Integrated Circuit

Large Current Positive Voltage Regulator

The KIC3201S/T series are highly precise, low power consumption, positive voltage regulators manufactured using CMOS and laser trimming technologies. The series provides large currents with a significantly small dropout voltage. The KIC3201S/T consists of a driver transistor, a precision reference voltage and an error amplifier. Output voltage is selectable in 0.05V steps between a voltage of 1.2V and 6.0V.



DIM	MILLIMETERS
A	4.70 MAX
B	2.50±0.20
C	1.70 MAX
D	0.45+0.15/-0.10
E	4.25 MAX
F	1.50±0.10
G	0.40 TYP
H	1.75 MAX
J	0.75 MIN
K	0.5+0.10/-0.05

① GND
② V_{IN}
③ V_{OUT}

• Heat Sink is common to ② (V_{IN})

SOT-89

Features

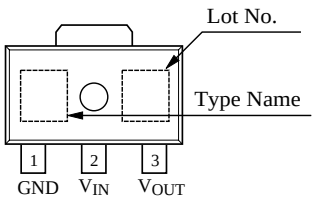
· Maximum Output Current : 400mA
· Dropout Voltage : 150mV @100mA, 300mV @200mA for V_{OUT}=3.0V
· Maximum Operating Voltage : 10V
· Output Voltage Range :
  1.2V ~ 6.0V (selectable in 0.05V steps)
· Highly Accurate : ±2%
· Low Power Consumption : Typ. 8.0uA
· Operational Temperature Range : -40℃ ~ 85℃
· Low ESR Capacitor : Ceramic compatible or Tantalum

Applications

· Battery Powered Equipment
· Reference Voltage Sources
· Digital Cameras, Camcoders
· Palmtop Computers
· Portable Audio Video Equipment

Pin Configuration

KIC3201S-XX



SOT-89
(TOP VIEW)

No.	Symbol	Description
1	GND	Ground
2	V_{IN}	Power input
3	V_{OUT}	Output

• Heat Sink is common to ② (V_{IN})

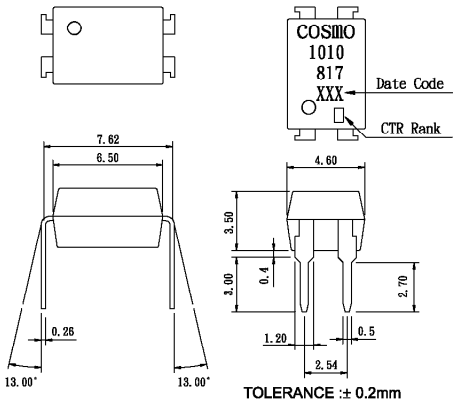
cosmo **High Reliability Photo Coupler** **K1010**

UL 1577 (File No.E169586) VDE 0884 / 0860 / 0805 (File No.101347)

Features

1. Current transfer ratio (CTR:MIN.50% at IF=5mA Vce=5V)
2. High isolation voltage between input and output (Viso:5000Vrms).
3. Compact dual-in-line package.
4. Available package : DIP/ SMD/ H.

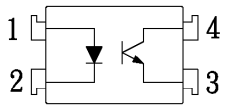
Outside Dimension : Unit (mm)



Applications

1. Registers, copiers, automatic vending machines.
2. System appliances, measuring instruments.
3. Computer terminals, programmable controllers.
4. Communications, telephone, etc.
5. Electric home appliances, such as oil fan heaters, Microwave oven, Washer, Refrigerator, Air conditioner, etc.
6. Medical instruments, physical and chemical equipment.
7. Signal transmission between circuits of different potentials and impedances.
8. Facsimile equipment, Audio, Video.
9. Switching power supply, Laser beam printer.

Schematic : Top View



1. Anode
2. Cathode
3. Emitter
4. Collector

Absolute Maximum Ratings

(Ta=25°C)

	Parameter	Symbol	Rating	Unit
Input	Forward current	IF	50	mA
	Peak forward current	IFM	1	A
	Reverse voltage	VR	6	V
	Power dissipation	PD	70	mW
Output	Collector-emitter voltage	VCEO	60	V
	Emitter-collector voltage	VECO	6	V
	Collector current	IC	50	mA
	Collector power dissipation	PC	150	mW
	Total power dissipation	Ptot	200	mW
	Isolation voltage 1 minute	Viso	5000	Vrms
	Operating temperature	Topr	-30 to +100	°C
	Storage temperature	Tstg	-55 to +125	°C
	Soldering temperature 10 second	Tsol	260	°C

Electro-optical Characteristics

(Ta=25°C)

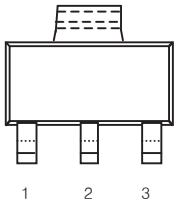
	Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	VF	IF =20mA	—	1.2	1.4	V
	Peak forward voltage	VFM	IFM =0.5A	—	—	3.0	V
	Reverse current	IR	VR =4V	—	—	10	uA
	Terminal capacitance	Ct	V=0, f=1kHz	—	30	—	pF
Output	Collector dark current	ICEO	VCE =20V	—	—	0.1	uA
Transfer charac-teristics	Current transfer ratio	CTR	IF=5mA, VCE =5V	50	—	600	%
	Collector-emitter saturation voltage	VCE(sat)	IF=20mA, IC=1mA	—	0.1	0.2	V
	Isolation resistance	Riso	DC500V	$5X10^{10}$	10^{11}	—	ohm
	Floating capacitance	Cf	V=0, f=1MHz	—	0.6	1.0	pF
	Cut-off frequency	fc	VCC=5V, IC=2mA, RL=100ohm	—	80	—	kHz
	Response time(Rise)	tr	VCE=2V, IC=2mA, RL=100ohm	—	4	18	us
	Response time(Fall)	tf		—	3	18	us

1A LOWDROP OUT VOLTAGE REGULATOR (ADJUSTABLE & FIXED) LM1117

FEATURES

- Output Current up to 1 A
- Low Dropout Voltage (700mV at 1A Output Current)
- Three Terminal Adjustable or Fixed 1.5V, 1.8V, 2.5V, 2.85V, 3.0V, 3.3V, 5.0V
- 2.85V Device for SCSI-II Active Terminator
- 0.04% Line Regulaion, 0.1% Load Regulation
- Very Low Quiescent Current
- Internal Current andTerminal Limit
- Logic-Controlled Electronics Shutdown
- Surface Mount Package SOT-223 & TO-263 (D2-Pack)
- 100% Thermal Limit Burn-In

SOT-223 PKG (FRONT VIEW)



PIN FUNCTION
1. Adj/Gnd
2. Vout
3. Vin

APPLICATION

- Active SCSI Terminators
- Portable/Plan Top/Notebook Computers
- High Efficiency Linear Regulators
- SMPS Post Regulators
- Mother B/D Clock Supplies
- Disk Drives
- Battery Chargers

ORDERING INFORMATION

Device (Marking)	Package
LM1117S	SOT-223
LM1117S-XX	
LM1117T	TO-263 (D2)
LM1117T-XX	

(X=Output Voltage=1.5V, 1.8V, 2.5V, 2.85V, '3.0V, 3.3V, 5.0V, Adjustable=AD)

DESCRIPTION

The LM1117 is a low power positive-voltage regulator designed to meet 1A output current and comply with SCSI-II specifications with a fixed output voltage of 2.85V. This device is an excellent choice for use in battery-powered applications, as active terminators for the SCSI bus, and portable computers.
The LM1117 features very low quiescent current and very low dropout voltage of 700mV at a full load and lower as output current decreases. LM1117 is available as an adjustable or fixed 1.5V, 1.8V, 2.5V, 2.85V, 3.0V, 3.3V, and 5.0V output voltages.
The LM1117 is offered in a 3-pin surface mount package SOT-223 & TO-263. The output capacitor of 10μF or larger is needed for output stability of LM1117 as required by most of the other regulator circuits.

ABSOLUTE MAXIMUM RATINGS

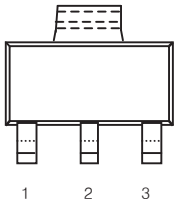
CHARACTERISTIC	SYMBOL	MIN.	MAX.	UNIT
DC Input Voltage	V_{IN}		7	V
Lead Temperature (Soldering, 5 Seconds)	T_{SOL}		260	℃
Storage Temperature Range	T_{STG}	-65	150	℃
Operating Junction Temperature Range	T_{OPR}	0	125	℃

1A LOWDROP OUT VOLTAGE REGULATOR (ADJUSTABLE & FIXED) LM1117

FEATURES

- Output Current up to 1 A
- Low Dropout Voltage (700mV at 1A Output Current)
- Three Terminal Adjustable or Fixed 1.5V, 1.8V, 2.5V, 2.85V, 3.0V, 3.3V, 5.0V
- 2.85V Device for SCSI-II Active Terminator
- 0.04% Line Regulaion, 0.1% Load Regulation
- Very Low Quiescent Current
- Internal Current andTerminal Limit
- Logic-Controlled Electronics Shutdown
- Surface Mount Package SOT-223 & TO-263 (D2-Pack)
- 100% Thermal Limit Burn-In

SOT-223 PKG (FRONT VIEW)



PIN FUNCTION
1. Adj/Gnd
2. Vout
3. Vin

APPLICATION

- Active SCSI Terminators
- Portable/Plan Top/Notebook Computers
- High Efficiency Linear Regulators
- SMPS Post Regulators
- Mother B/D Clock Supplies
- Disk Drives
- Battery Chargers

ORDERING INFORMATION

Device (Marking)	Package
LM1117S	SOT-223
LM1117S-XX	
LM1117T	TO-263 (D2)
LM1117T-XX	

(X=Output Voltage=1.5V, 1.8V, 2.5V, 2.85V, '3.0V, 3.3V, 5.0V, Adjustable=AD)

DESCRIPTION

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ABSOLUTE MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	MIN.	MAX.	UNIT
DC Input Voltage	V_{IN}		7	V
Lead Temperature (Soldering, 5 Seconds)	T_{SOL}		260	℃
Storage Temperature Range	T_{STG}	-65	150	℃
Operating Junction Temperature Range	T_{OPR}	0	125	℃

ESMT M12L16161A

SDRAM 512K x 16Bit x 2Banks Synchronous DRAM

FEATURES

- JEDEC standard 3.3V power supply
- LVTTL compatible with multiplexed address
- Dual banks operation
- MRS cycle with address key programs
  - CAS Latency (2 & 3)
  - Burst Length (1, 2, 4, 8 & full page)
  - Burst Type (Sequential & Interleave)
- All inputs are sampled at the positive going edge of the system clock
- Burst Read Single-bit Write operation
- DQM for masking
- Auto & self refresh
- 32ms refresh period (2K cycle)

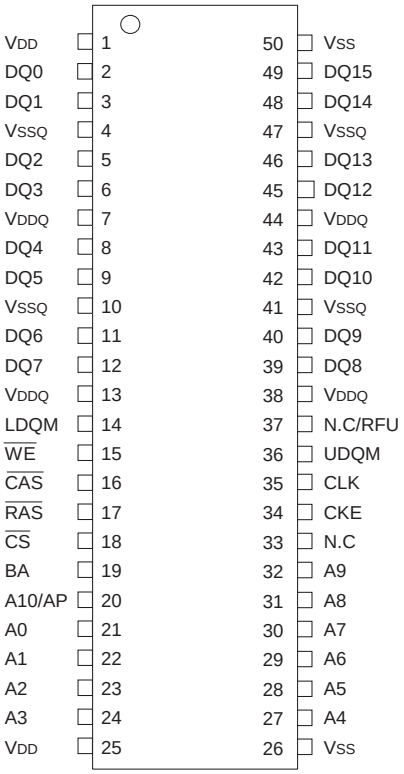
GENERAL DESCRIPTION

The M12L16161A is 16,777,216 bits synchronous high data rate Dynamic RAM organized as 2 x 524,288 words by 16 bits, fabricated with high performance CMOS technology. Synchronous design allows precise cycle control with the use of system clock I/O transactions are possible on every clock cycle. Range of operating frequencies, programmable burst length and programmable latencies allow the same device to be useful for a variety of high bandwidth, high performance memory system applications.

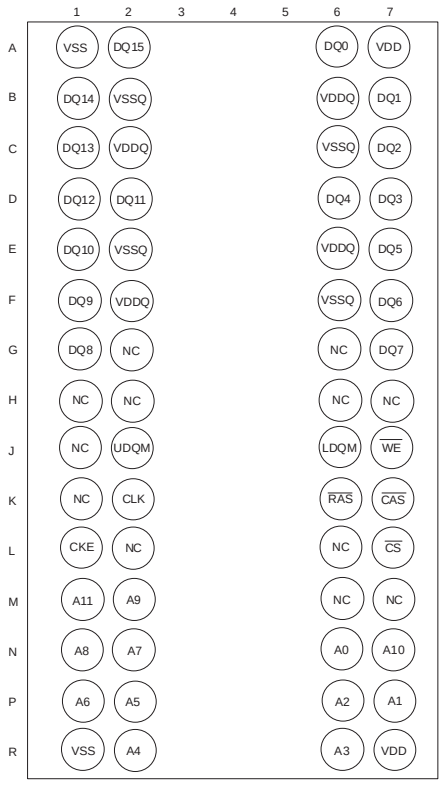
ORDERING INFORMATION

Part NO.	MAX Freq.	PACKAGE	COMMENTS
M12L16161A-5TG	200MHz	TSOP(II)	Pb-free
M12L16161A-7TG	143MHz	TSOP(II)	Pb-free
M12L16161A-7BG	143MHz	VFBGA	Pb-free

PIN CONFIGURATION (TOP VIEW)



50PIN TSOP(II)
(400mil x 825mil)
(0.8 mm PIN PITCH)

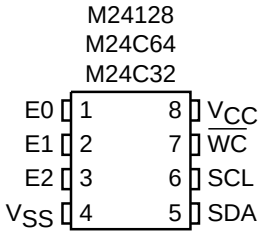


60 Ball VFBGA
(6.4x10.1mm)
(0.65mm ball pitch)

Table 2. Signal names

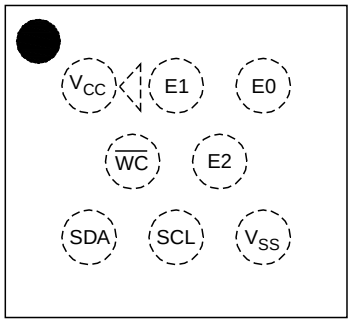
Signal name	Function	Direction
E0, E1, E2	Chip Enable	Input
SDA	Serial Data	I/O
SCL	Serial Clock	Input
WC	Write Control	Input
V_{CC}	Supply voltage	
V_{SS}	Ground	

Figure 2. DIP, SO, TSSOP and UFDFPN connections



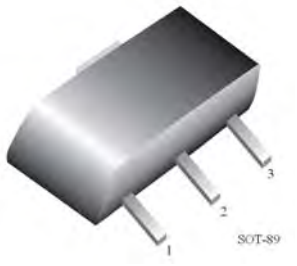
1. See *Package mechanical data* section for package dimensions, and how to identify pin-1.

Figure 3. M24128 WLCSP connections (top view, marking side, with balls on the underside)



❖ *Pin Configuration*

SOT-89



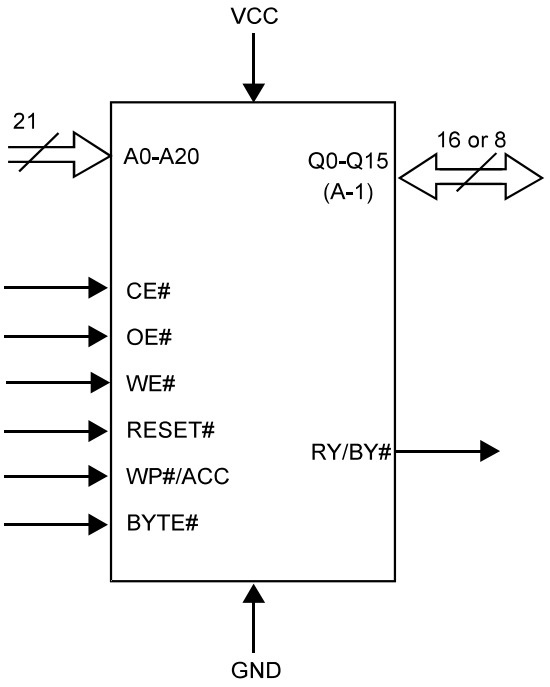
Pin Number	*Pin Name*	*Description*
1	*VOUT*	*Supply Voltage Output*
2	*VIN*	*Supply Voltage Input*
3	*VSS*	*Ground*

PIN DESCRIPTION

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

Note: If customers do not need WP#/ACC feature, please connect WP#/ACC pin to VCC or let it floating. The WP#/ACC has an internal pull-up when unconnected WP#/ACC is at Vih.

LOGIC SYMBOL



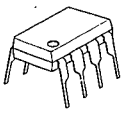
JRC **NJM2068**

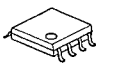
LOW-NOISE DUAL OPERATIONAL AMPLIFIER

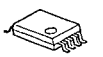
■ GENERAL DESCRIPTION

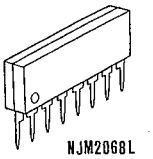
The NJM2068 is a high performance, low noise dual operational amplifier. This amplifier features popular pin-out, superior noise performance, and superior total harmonic distortion. This amplifier also features guaranteed noise performance with substantially higher gain-bandwidth product and slew rate which far exceeds that of the 4558 type amplifier. The specially designed low noise input transistors allow the NJM2068 to be used in very low noise signal processing applications such as audio preamplifiers and servo error amplifier.

■ PACKAGE OUTLINE


NJM2068D


NJM2068M

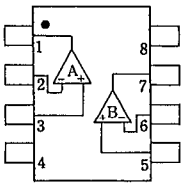

NJM2068V


NJM2068L

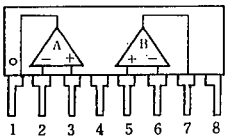
■ FEATURES

- Operating Voltage (±4V～±18V)
- Low Total Harmonic Distortion (0.001% typ.)
- Low Noise Voltage (FLAT+JISA, 0.56 μV typ.)
- High Slew Rate (6V/μs typ.)
- Unity Gain Bandwidth (27MHz @f=10kHz)
- Package Outline DIP8, DMP8, SIP8, SSOP8
- Bipolar Technology

■ PIN CONFIGURATION



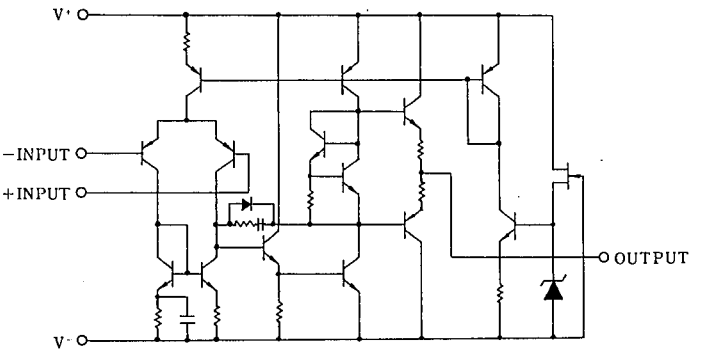
NJM2068D
NJM2068M
NJM2068V



NJM2068L

PIN FUNCITON
1. A OUTPUT
2. A−INPUT
3. A+INPUT
4. V⁻
5. B+INPUT
6. B−INPUT
7. B OUTPUT
8. V⁺

■ EQUIVALENT CIRCUIT (1/2 Shown)



JRC

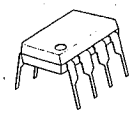
NJM2115

DUAL OPERATIONAL AMPLIFIER

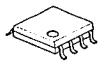
■ GENERAL DESCRIPTION

NJM 2115 is a low operating Voltage (±1.0 V min.) and low saturation output voltage (±2.0 V p-p at supply voltage ±2.5V) operational amplifier. It is applicable to HANDY TYPE CD, RADIO CASSETE CD, and PORTABLE DAT, that are digital audio apparatus which require the 5V single supply operation and high output voltage. The NJM2115 is improved version of the NJM2100 about BIAS-CIRCUIT. So, NJM2115 is low saturation compared to the NJM2100 under the condition of low supply voltage ($<\pm 2.5V$). The NJM2115 is stable about the oscillation compared to the NJM2100 under the condition of $V^+/V^- > 2.5V$.

■ PACKAGE OUTLINE

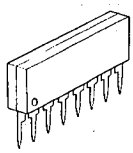


NJM2115D



NJM2115M

NJM2115V

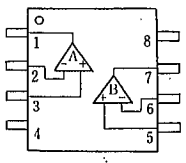


NJM2115L

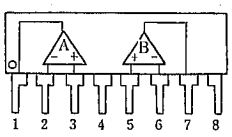
■ FEATURES

- Operating Voltage (±1V～±7V)
- Low Saturation Output Voltage ($\pm 2.0V_{P\text{-}P}$ @$V^+ = \pm 2.5V$)
- Slew Rate (4V/μs typ.)
- Unity Gain Bandwidth (12MHz typ.)
- Package Outline DIP8, DMP8, SIP8, SSOP8
- Bipolar Technology

■ PIN CONFIGURATION



NJM2115D
NJM2115M
NJM2115V

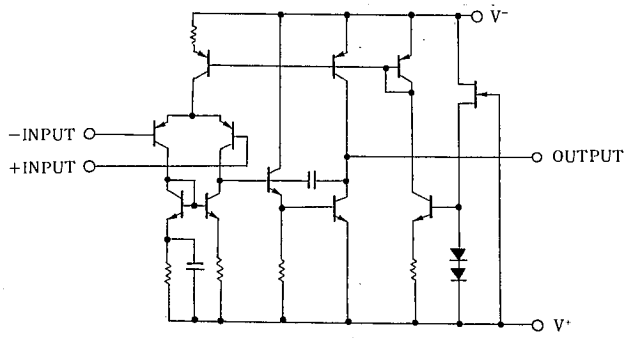


NJM2115L

PIN FUNCTION

1. A OUTPUT
2. A −INPUT
3. A +INPUT
4. V^-
5. B +INPUT
6. B −INPUT
7. B OUTPUT
8. V^+

■ EQUIVALENT CIRCUIT (1/2 Shown)



JRC **NJM2391**

LOW DROPOUT VOLTAGE REGULATOR

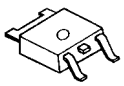
■ GENERAL DESCRIPTION

The NJM2391 is low dropout voltage regulators featuring high precision voltage.

It is suitable for Notebook PCs, PC cards and hard disks where 3.3V need to be generated from 5V supply.

A small TO-252 package is adopted for the space saving.

■ PACKAGE OUTLINE

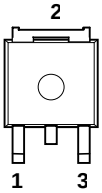


NJM2391DL1

■ FEATURES

- ●Output Current Io(max.)=1A
- ●High Precision Output Voltage Vo±1%
- ●Low Dropout Voltage ΔV_{I-O} =1.1V typ. At Io=1A
- ●Internal Excessive Voltage Protection Circuit
- ●Internal Short Circuit Current Limit
- ●Internal Thermal Overload Protection
- ●Bipolar Technology
- ●Package Outline TO-252

■ PIN CONFIGURATION



PIN FUNCTION
1.V_{IN}
2.GND
3.V_{OUT}

NJM2391DL1

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Input Voltage	V^+	+10	V
Power Dissipation	P_D	TO-252 8 (Tc=25°C) 0.8(Ta≤25°C)	W
Operating Temperature	Topr	–40 ~ +85	°C
Storage Temperature	Tstg	–50 ~ +125	°C

■ OUTPUT VOLTAGE RANK LIST

Device Name	V_{OUT}
NJM2391DL1-25	2.5V
NJM2391DL1-26	2.6V
NJM2391DL1-28	2.85V
NJM2391DL1-03	3.0V
NJM2391DL1-33	3.3V
NJM2391DL1-35	3.5V
NJM2391DL1-05	5.0V

JRC **NJM2391**

LOW DROPOUT VOLTAGE REGULATOR

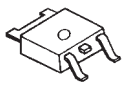
■ GENERAL DESCRIPTION

The NJM2391 is low dropout voltage regulators featuring high precision voltage.

It is suitable for Notebook PCs, PC cards and hard disks where 3.3V need to be generated from 5V supply.

A small TO-252 package is adopted for the space saving.

■ PACKAGE OUTLINE

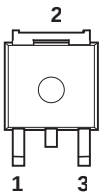


NJM2391DL1

■ FEATURES

- ●Output Current Io(max.)=1A
- ●High Precision Output Voltage Vo±1%
- ●Low Dropout Voltage ΔV_{I-O} =1.1V typ. At Io=1A
- ●Internal Excessive Voltage Protection Circuit
- ●Internal Short Circuit Current Limit
- ●Internal Thermal Overload Protection
- ●Bipolar Technology
- ●Package Outline TO-252

■ PIN CONFIGURATION



PIN FUNCTION
1.V_{IN}
2.GND
3.V_{OUT}

NJM2391DL1

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Input Voltage	V^+	+10	V
Power Dissipation	P_D	TO-252 8 (Tc=25°C) 0.8(Ta≤25°C)	W
Operating Temperature	Topr	–40 ~ +85	°C
Storage Temperature	Tstg	–50 ~ +125	°C

■ OUTPUT VOLTAGE RANK LIST

Device Name	V_{OUT}
NJM2391DL1-25	2.5V
NJM2391DL1-26	2.6V
NJM2391DL1-28	2.85V
NJM2391DL1-03	3.0V
NJM2391DL1-33	3.3V
NJM2391DL1-35	3.5V
NJM2391DL1-05	5.0V

JRC **NJM2581**

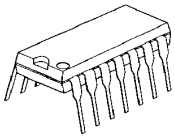
DUAL SUPPLY WIDE BAND 3ch VIDEO AMPLIFIER

■ GENERAL DESCRIPTION

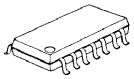
The **NJM2581** is a dual supply voltage wide band 3ch video amplifier. It is suitable for Y, Pb, and Pr signal because frequency range is 50MHz.

The **NJM2581** is suitable for Set Top Box, AV amplifier, and other high quality AV systems.

■ PACKAGE OUTLINE



NJM2581D

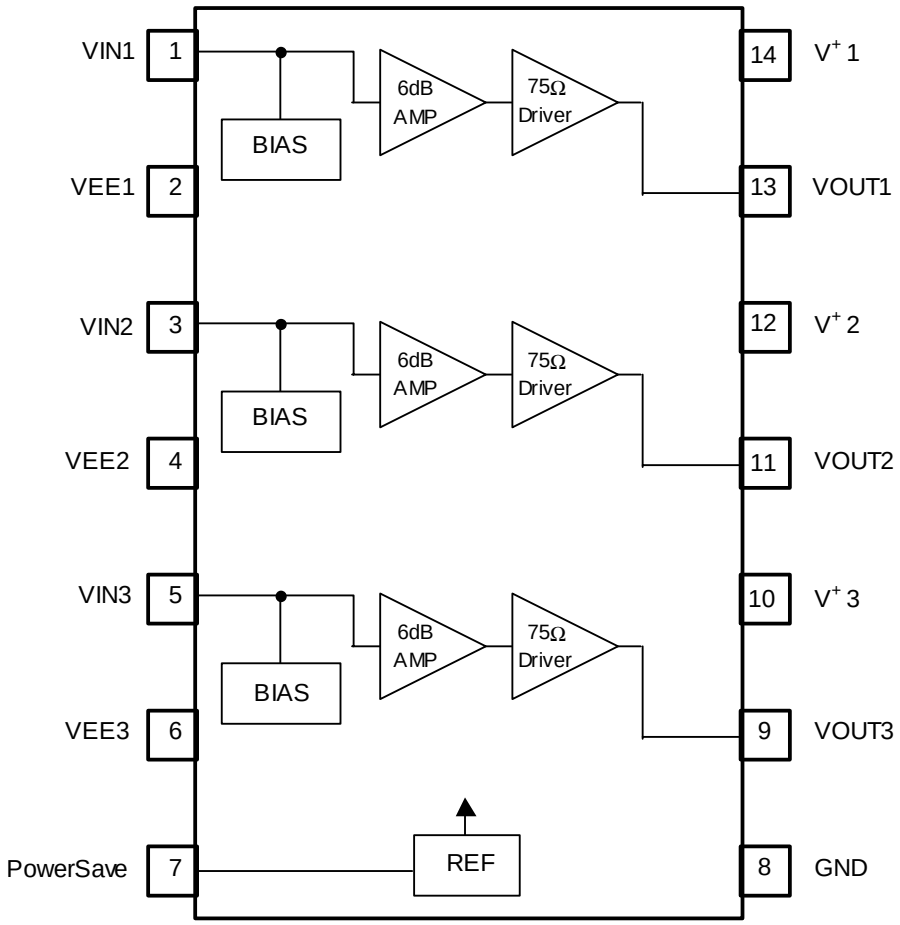


NJM2581M

■ FEATURES

- Operating Voltage ±4.5 to ±5.5V
- Wide frequency range 50MHz at 0dB typ.
- Internal 6dB Amplifier
- Internal 75ΩDriver Circuit (2-system drive)
- Power Save Circuit
- Bipolar Technology
- Package Outline DIP14, DMP14

■ BLOCK DIAGRAM



JRC **NJM2595**

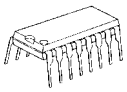
5-INPUT 3-OUTPUT VIDEO SWITCH

■ GENERAL DESCRIPTION

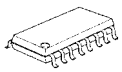
The **NJM2595** is a 5-input 3-output video switch. Its switches select one from five signals received from VTR,TV,DVD, TV-GAME and others.

The NJM2595 is designed for audio items, such as AV amplifier and others.

■ PACKAGE OUTLINE



NJM2595D

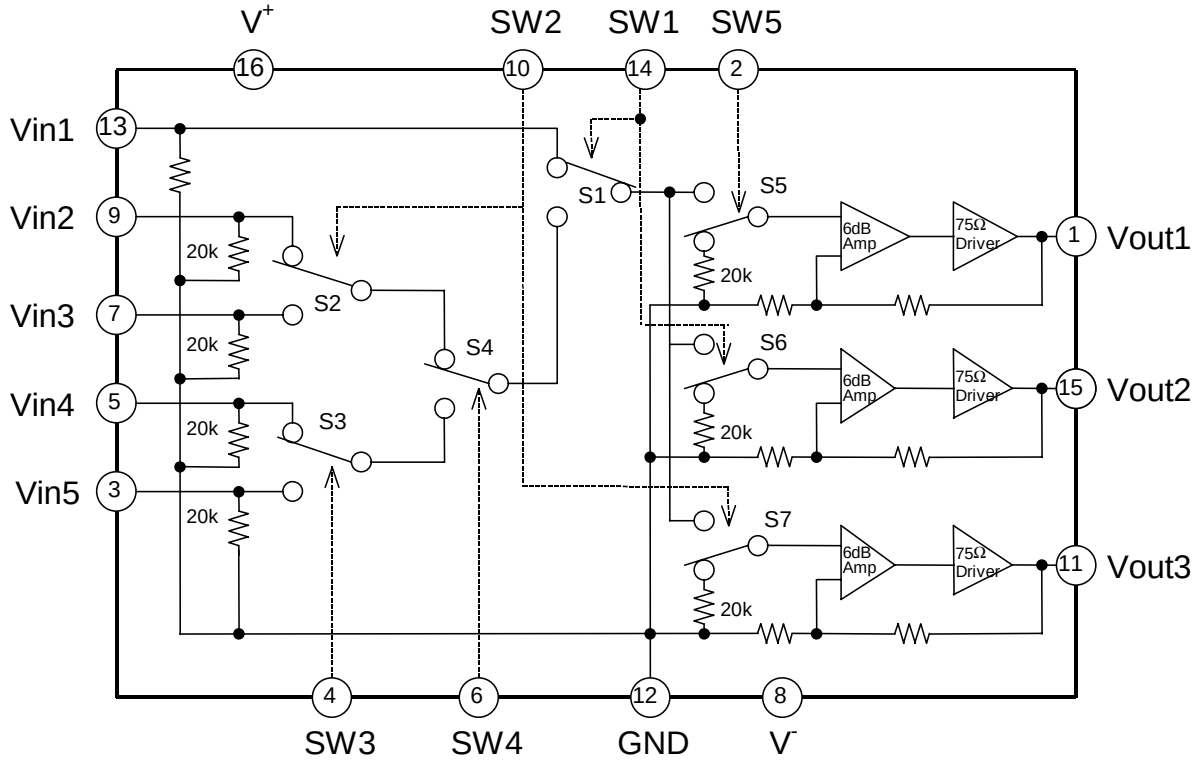


NJM2595M

■ FEATURES

- 5-input 3-output
- Operating Voltage ±4.0 to ±6.5V
- Operating current ±15mAtyp. at Vcc=±5V
- Crosstalk -65dBtyp.
- Internal 6dB Amplifier
- Internal 75Ω Driver
- Bipolar Technology
- Package Outline DIP16,DMP16

■ PIN CONFIGURATION and BLOCK DIAGRAM



JRC **NJM2845/46**

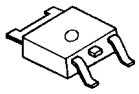
LOW DROPOUT VOLTAGE REGULATOR

■ GENERAL DESCRIPTION

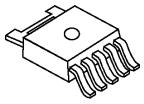
The NJM2845 is low dropout voltage regulator. Advanced Bipolar technology achieves low noise, high ripple rejection and low quiescent current.

NJM2845 is 3 terminal type and NJM2846 is ON/OFF control built in type. These product can be selected according to the applications.

■ PACKAGE OUTLINE



NJM2845DL1

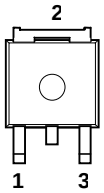


NJM2846DL3

■ FEATURES

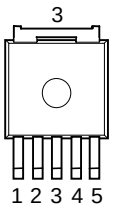
- ● High Ripple Rejection 75dB typ. (f=1kHz,3V Version)
- ● Output Noise Voltage Vno=45μVrms typ. (Vo=3V Version)
- ● Output capacitor with 2.2μF ceramic capacitor (Vo≥2.6V)
- ● Output Current Io(max.)=800mA
- ● High Precision Output Vo ±1.0%
- ● Low Dropout Voltage 0.18V typ. (Io=500mA)
- ● ON/OFF Control (NJM2846)
- ● Internal Short Circuit Current Limit
- ● Internal Thermal Overload Protection
- ● Bipolar Technology
- ● Package Outline TO-252-3 (NJM2845DL1), TO-252-5 (NJM2846DL3)

■ PIN CONFIGURATION



1.V_{IN}
2.GND
3.V_{OUT}

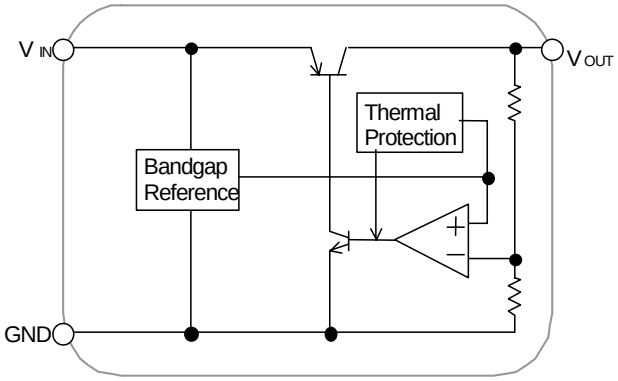
NJM2845DL1



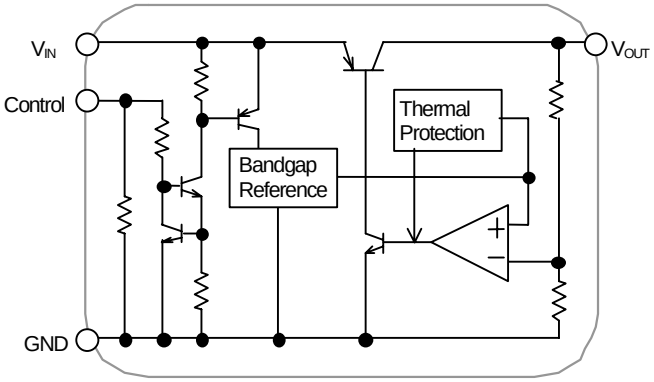
1.CONTROL
2.V_{IN}
3.GND
4.Vo
5.NC

NJM2846DL3

■ EQUIVALENT CIRCUIT



NJM2845DL1



NJM2846DL3

JRC

NJM4556A

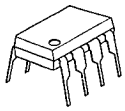
DUAL HIGH CURRENT OPERATIONAL AMPLIFIER

■ GENERAL DESCRIPTION

The NJM4556A integrated circuit is a high-gain, high output current dual operational amplifier capable of driving ±70mA into 150 Ω loads (±10.5V output voltage), and operating low supply voltage (V^+/V^-=±2V~).

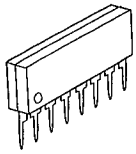
The NJM4556A combines many of the fetures of the popular NJM4558 as well as having the capability of driving 150Ω loads. In addition, the wide band-width, low noise, high slew rate and low distortion of the NJM4556A make it ideal for many audio, telecommunications and instrumentation applications.

■ PACKAGE OUTLINE

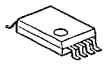


NJM4556AD

NJM4556AM



NJM4556AL

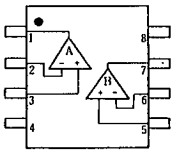


NJM4556AV

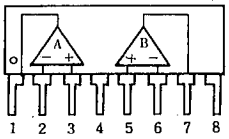
■ FEATURES

- Operating Voltage (±2V~±18V)
- High Output Current (Io=70mA)
- Slew Rate (3V/μs typ.)
- Gain Band Width Product (8MHz typ.)
- Package Outline DIP8, DMP8, SIP8, SSOP8
- Bipolar Technology

■ PIN CONFIGURATION



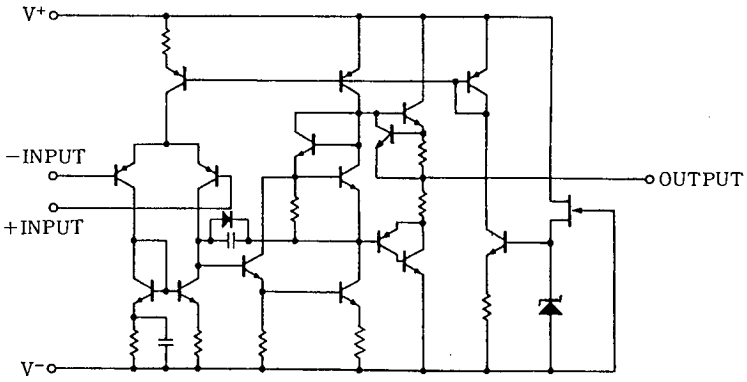
NJM4556AD
NJM4556AM
NJM4556AV



NJM4556AL

PIN FUNCTION
1. A OUTPUT
2. A−INPUT
3. A+INPUT
4. V⁻
5. B+INPUT
6. B−INPUT
7. B OUTPUT
8. V⁺

■ EQUIVALENT CIRCUIT (1/2 Shown)



JRC **NJU7223**

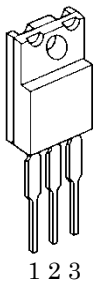
500mA Low Dropout Voltage Regulator

■ GENERAL DESCRIPTION

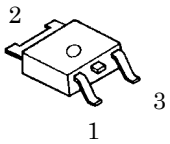
The NJU7223 series is a high precision output voltage, low drop output, low current consumption and high output current 3-terminal positive voltage regulator with a over current protection and a thermal shutdown.

Low dropout voltage is realized at high current output.

■ PACKAGE OUTLINE



NJM7223F



NJU7223DL1

1.V_{OUT}
2.V_{IN}
3.GND

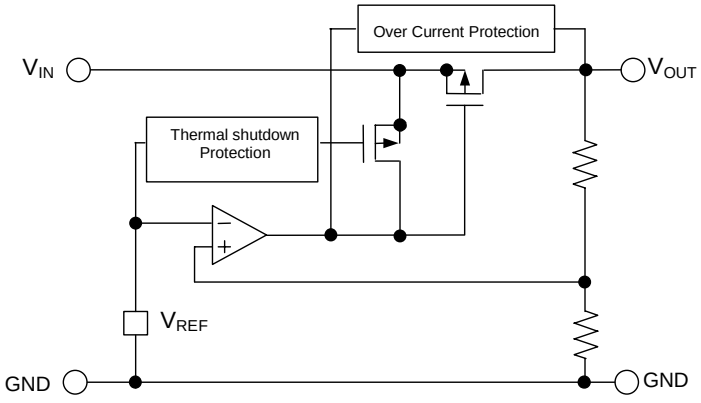
■ FEATURES

- ●High Precision Output Voltage ±2%
- ●High Output Current Io(max.)=500mA
- ●Low Current Consumption 30μA
- ●Low Dropout Voltage ΔV_{IO}=0.4V typ. (Io=0.5A,Vo=5V)
- ●Internal Over Current Protection
- ●Internal Thermal Shutdown Protection
- ●Package Outline TO-220F, TO-252
- ●C-MOS Technology

■ OUTPUT VOLTAGE LINE-UP

V_{OUT}	TO-220F	TO-252
+1.8V	NJU7223F18	NJU7223DL1-18
+2.5V	NJU7223F25	NJU7223DL1-25
+3.0V	NJU7223F30	NJU7223DL1-30
+3.3V	NJU7223F33	NJU7223DL1-33
+5.0V	NJU7223F50	NJU7223DL1-50

■ EQUIVALENT CIRCUIT

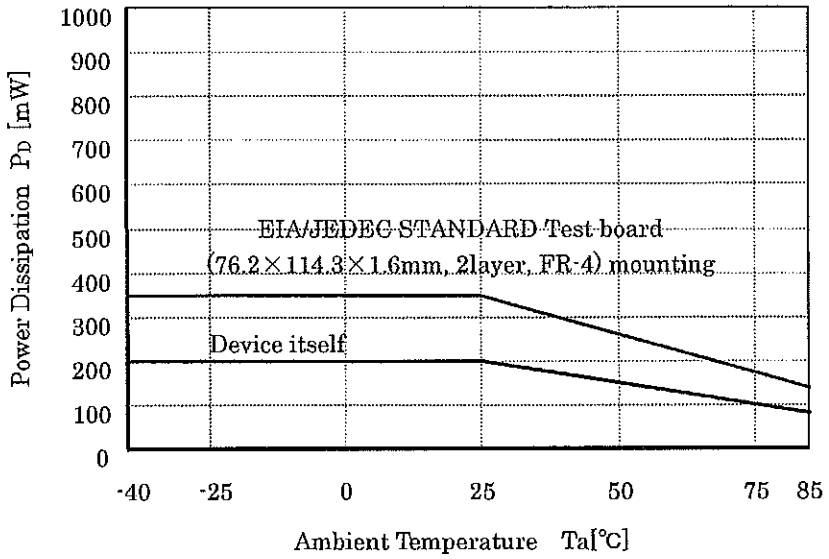


■POWER DISSIPATION VS.AMBIENT TEMPERATURE

BCE-C0194-001-00

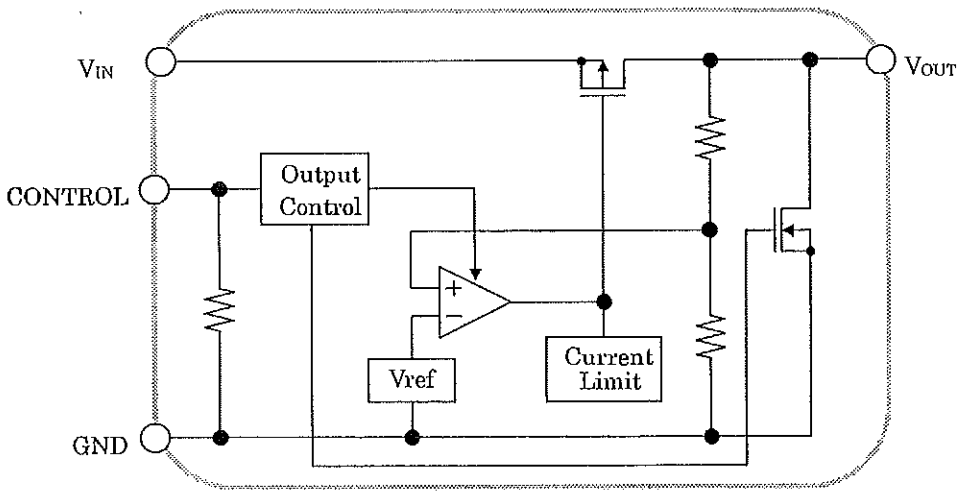
Please, refer to the following Power Dissipation and Ambient Temperature.
(Please note the surface mount package has a small maximum rating of Power Dissipation [P_D], a special attention should be paid in designing of thermal radiation.)

Power Dissipation－Ambient Temperature Characteristic



■BLOCK DIAGRAM

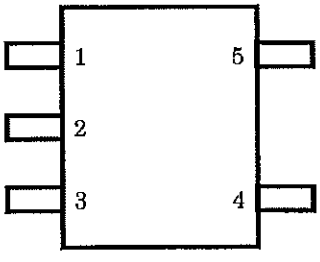
BDE-44772-000-00



■PIN CONFIGURATION

BEE-P0028-000-00

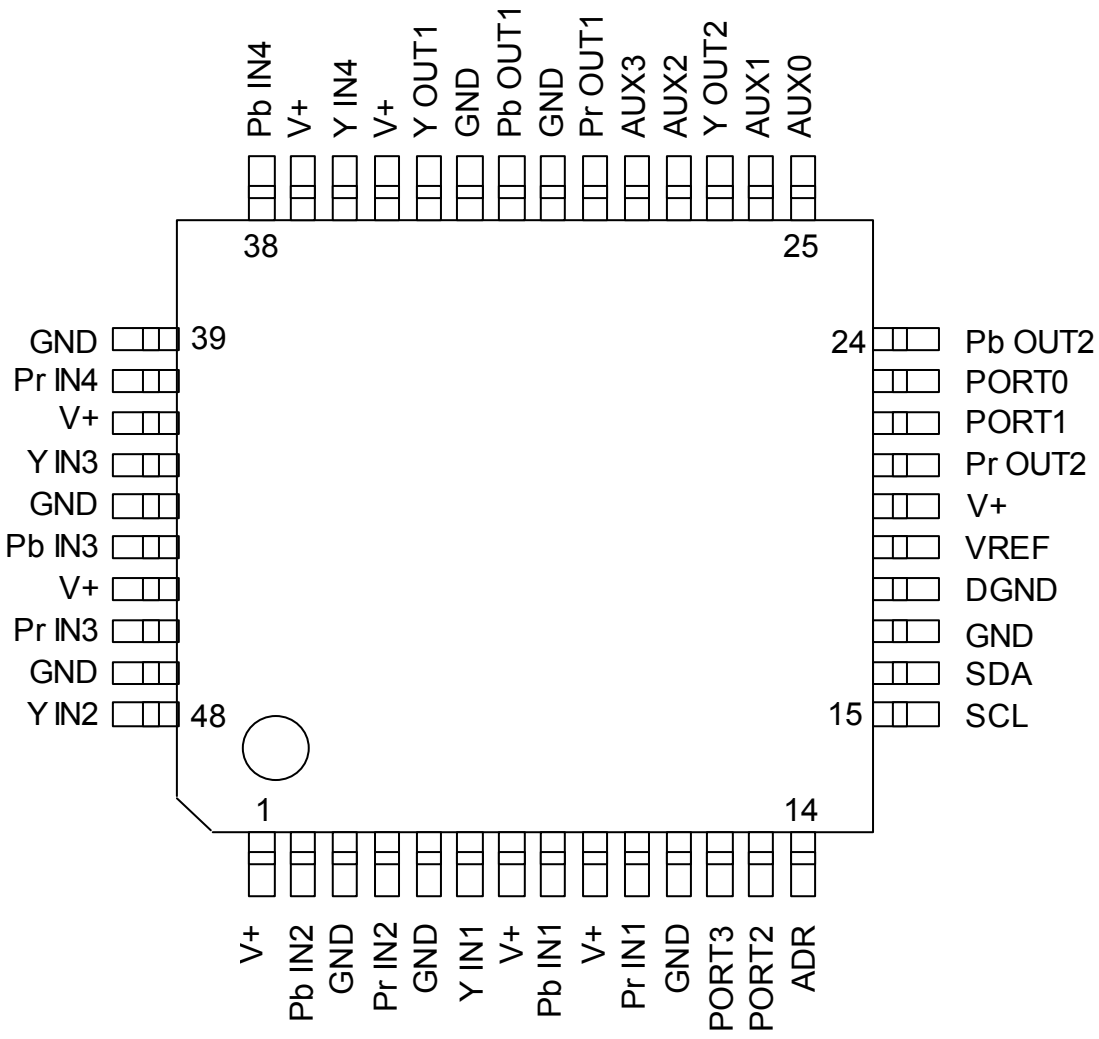
(Top View)



PIN FUNCTION
1. CONTORL (Active High)
2. GND
3. NC
4. V_{OUT}
5. V_{IN}

NJW1321

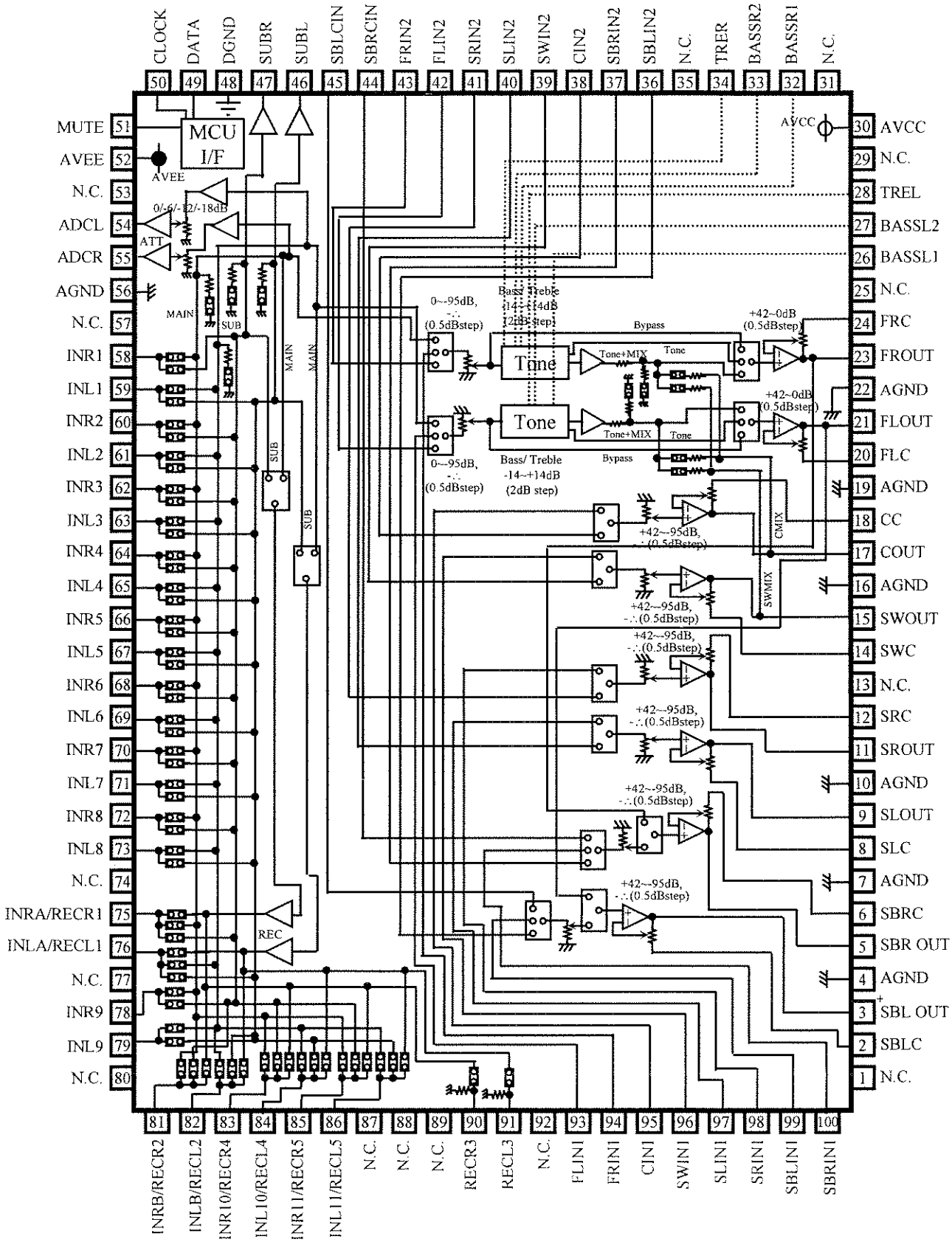
■PIN CONFIGURATION



1. V+	13. PORT2	25. AUX0	37. V+
2. Pb IN2	14. ADR	26. AUX1	38. Pb IN4
3. GND	15. SCL	27. Y OUT2	39. GND
4. Pr IN2	16. SDA	28. AUX2	40. Pr IN4
5. GND	17. GND	29. AUX3	41. V+
6. Y IN1	18. DGND	30. Pr OUT1	42. Y IN3
7. V+	19. VREG	31. GND	43. GND
8. Pb IN1	20. V+	32. Pb OUT1	44. Pb IN3
9. V+	21. Pr OUT2	33. GND	45. V+
10. Pr IN1	22. PORT1	34. Y OUT1	46. Pr IN3
11. GND	23. PORT 0	35. V+	47. GND
12. PORT3	24. Pb OUT2	36. Y IN4	48. Y IN2

C.S	Integrated Circuit (R2A15218FP)

Fig 1. BLOCKDIAGRAM AND PIN CONFIGURATION(TOP VIEW)



C.S	Integrated Circuit (R2A15218FP)

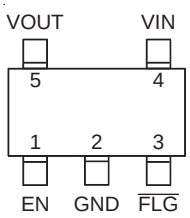
Fig 2. PIN DESCRIPTION

PIN No.	Name	Function
23,21, 17,15, 11,9, 5,3	FROUT,FLOUT, COUT,SWOUT, SROUT, SLOUT, SBROUT,SBLOUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
24,20, 18,14, 12,8, 6,2	FRC,FLC, CC,SWC, SRC,SLC, SBRC,SBLC	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
4,7,10,16, 19,22,56	AGND	Analog ground of internal circuit
28,34	TREL, TRER	Frequency characteristic setting pin of L/R channel tone control (Treble)
26,27, 32,33	BASSL1,BASSL2 BASSR1,BASSR2	Frequency characteristic setting pin of L/R channel tone control (Bass)
30	AVCC	Positive power supply to internal circuit
43,42, 41,40, 39,38, 37,36	FRIN2, FLIN2, SRN2,SLIN2, SWIN2,CIN2, SBRIN2,SBLIN2	Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
93,94, 95,96, 97,98, 99,100	FLIN1, FRIN1, CIN1,SWIN1, SLIN1,SRIN1, SBLIN1,SBRIN1	
48	DGND	Digital ground of internal circuit
49	DATA	Input pin of control data
50	CLOCK	Input pin of control clock
52	AVEE	Negative power supply to internal circuit
59,61,63, 65,67,69, 71,73,79	INL1,INL2, INL3, INL4,INL5,INL6, INL7,INL8,INL9	Input pin of L/R channel (Input Selector)
58,60,62, 64,66,68, 70,72,78	INR1,INR2, INR3, INR4,INR5,INR6, INR7,INR8,INR9	
51	MUTE	Outside Mute Control PIN
44,45	SBRCIN,SBLCIN	Input pin for SBL/SBR channel Volume
46,47	SUBL,SUBR	Output pin for L/R channel SUB Output
54,55	ADCL, ADCR	Output pin for L/R channel ADC
90,91	RECR3,RECL3	Output pin for L/R channel REC Output
75,76, 81,82, 83,84, 85,86	INRA/RECR1,INLA/RECL1, INRB/RECR2,INLB/RECL2, INR10/RECR4,INL10/RECL4, INR11/RECR5,INL11/RECL5	Input pin of L/R channel (Input Selector)/ Output pin for L/R channel REC Output
1,13,25,29,31, 35,53, 57,74,77,80, 87,88,89,92	N.C.	No Connected PIN

RT9702APB

Pin Configurations

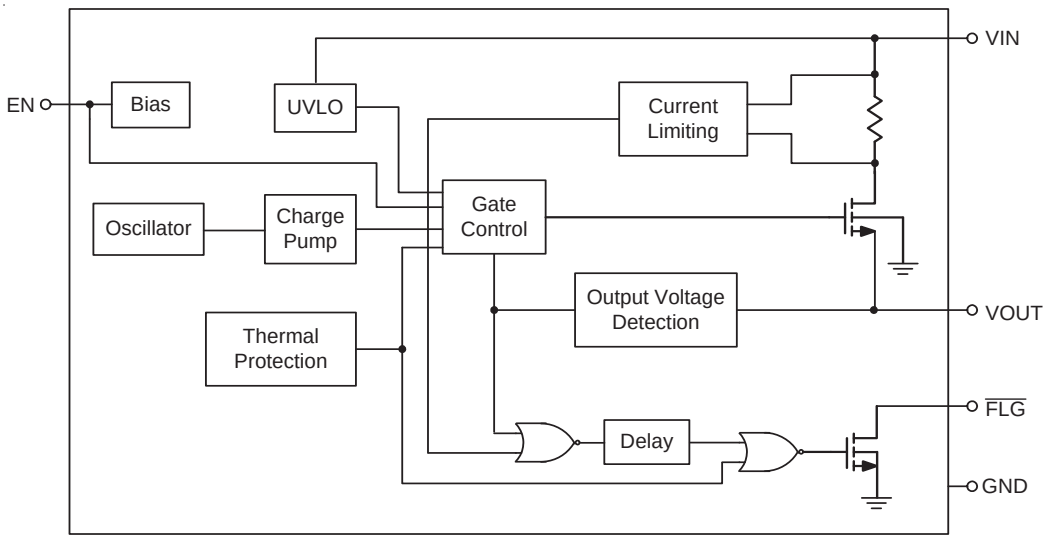
(TOP VIEW)



SOT-23-5/TSOT-23-5

VIN	Power-Input Voltage
VOUT	Output Voltage
GND	Ground
EN	Chip Enable (Active High)
$\overline{FLG}$	Open-Drain Fault Flag Output

Function Block Diagram

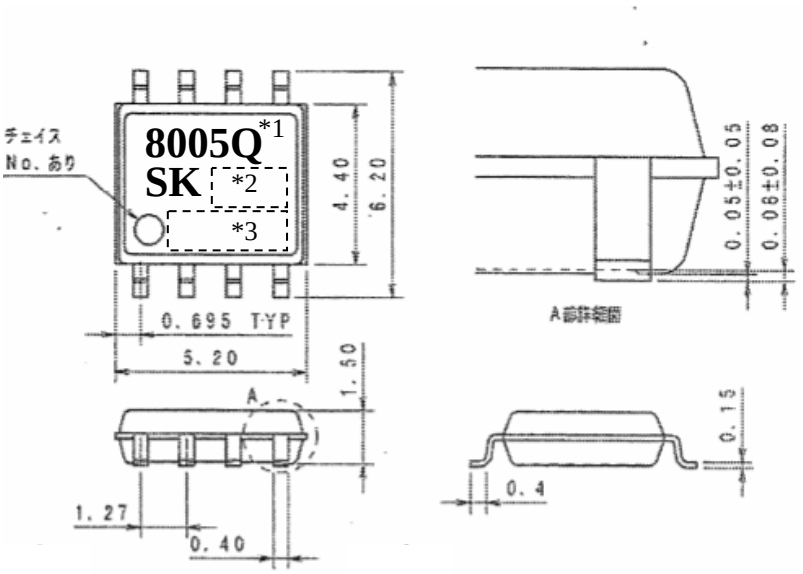


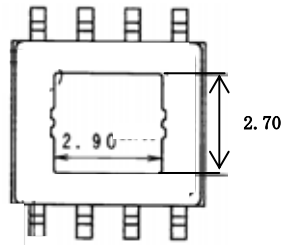
6 外形

Package information

6-1外形、寸法

Package type, physical dimensions





端子配列

PIN Assignment

1.BS
2.IN
3.SW
4.GND
5.FB
6.COMP
7.EN
8.SS

*1.品名標示
Type number

*2.ロット番号(3 桁)
Lot number (three digit)
第 1 文字 西暦年号下一桁
1st letter The last digit of year
第 2 文字 月
2nd letter Month
1～9 月：アラビア数字
10 月：O
11 月：N
12 月：D
(1 to 9 for Jan. to Sept.,
O for Oct. N for Nov. D for Dec.)
第 3,4 文字 製造週
3rd & 4th letter week
01～05：アラビア数字
Arabic Numerical

*3.管理番号(4 桁)
Control number (four digit)

6-2外観

Appearance

本体は、汚れ、傷、亀裂等なく綺麗であること。
The body shall be clean and shall not bear any stain, rust or flaw.

6-3標示

Marking

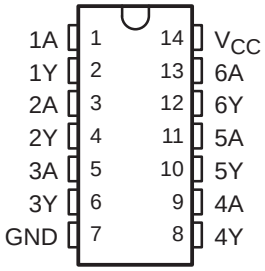
標示は本体に、品名及びロット番号を明瞭、かつ容易に消えぬようレーザーで捺印すること。
The type number and lot number shall be marked on the body by leaser which shall not be unreadable easily.

SN54ACT04, SN74ACT04
HEX INVERTERS

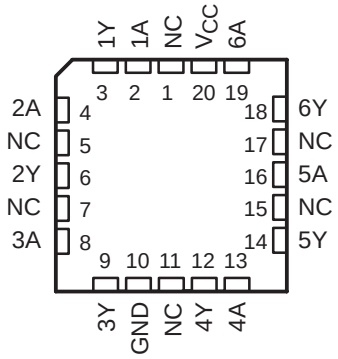
SCAS518C − JULY 1995 − REVISED OCTOBER 2003

- **4.5-V to 5.5-V V_{CC} Operation**
- **Inputs Accept Voltages to 5.5 V**
- **Max t_{pd} of 8.5 ns at 5 V**
- **Inputs Are TTL-Voltage Compatible**

SN54ACT04 . . . J OR W PACKAGE
SN74ACT04 . . . D, DB, N, NS, OR PW PACKAGE
(TOP VIEW)



SN54ACT04 . . . FK PACKAGE
(TOP VIEW)



NC − No internal connection

description/ordering information

The ‘ACT04 devices contain six independent inverters. The devices perform the Boolean function $Y = \overline{A}$.

ORDERING INFORMATION

T_A	PACKAGE†		ORDERABLE PART NUMBER	TOP-SIDE MARKING
−40°C to 85°C	PDIP − N	Tube	SN74ACT04N	SN74ACT0N
	SOIC − D	Tube	SN74ACT04D	ACT04
		Tape and reel	SN74ACT04DR	
	SOP − NS	Tape and reel	SN74ACT04NSR	ACT04
	SSOP − DB	Tape and reel	SN74ACT04DBR	AD04
	TSSOP − PW	Tube	SN74ACT04PW	AD04
		Tape and reel	SN74ACT04PWR	
−55°C to 125°C	CDIP − J	Tube	SNJ54ACT04J	SNJ54ACT04J
	CFP − W	Tube	SNJ54ACT04W	SNJ54ACT04W
	LCCC − FK	Tube	SNJ54ACT04FK	SNJ54ACT04FK

† Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

FUNCTION TABLE
(each inverter)

INPUT A	OUTPUT Y
H	L
L	H

PIN DESCRIPTION

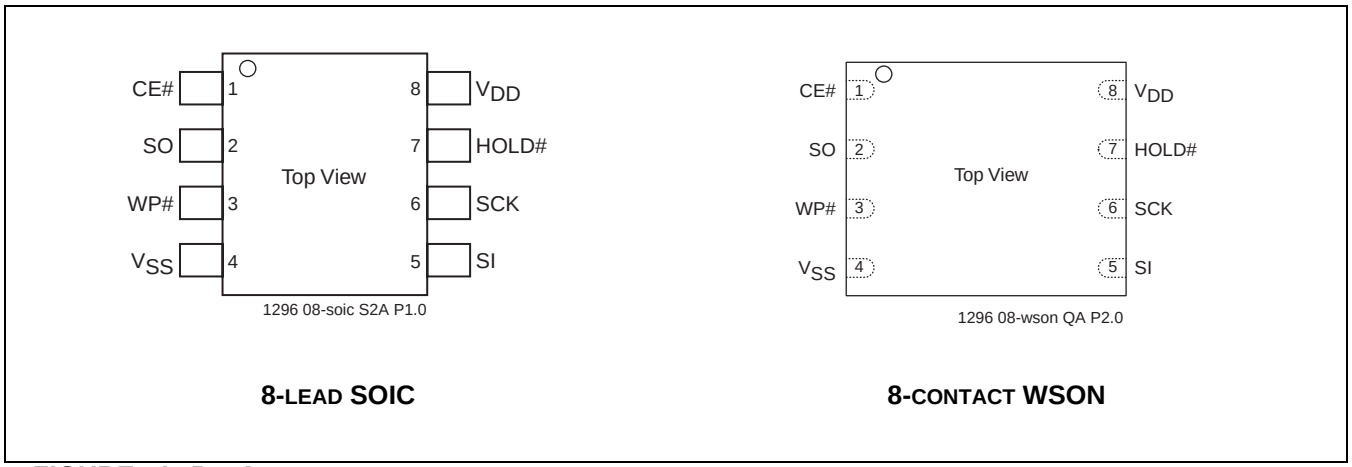


FIGURE 1: PIN ASSIGNMENTS

TABLE 1: PIN DESCRIPTION

Symbol	Pin Name	Functions
SCK	Serial Clock	To provide the timing of the serial interface. Commands, addresses, or input data are latched on the rising edge of the clock input, while output data is shifted out on the falling edge of the clock input.
SI	Serial Data Input	To transfer commands, addresses, or data serially into the device. Inputs are latched on the rising edge of the serial clock.
SO	Serial Data Output	To transfer data serially out of the device. Data is shifted out on the falling edge of the serial clock. Outputs Flash busy status during AAI Programming when reconfigured as RY/BY# pin. See “Hardware End-of-Write Detection” on page 12 for details.
CE#	Chip Enable	The device is enabled by a high to low transition on CE#. CE# must remain low for the duration of any command sequence.
WP#	Write Protect	The Write Protect (WP#) pin is used to enable/disable BPL bit in the status register.
HOLD#	Hold	To temporarily stop serial communication with SPI flash memory without resetting the device.
V_{DD}	Power Supply	To provide power supply voltage: 2.7-3.6V for SST25VF080B
V_{SS}	Ground	

T1.0 1296

TOSHIBA CMOS Digital Integrated Circuit Silicon Monolithic

TC74HC151AP,TC74HC151AF,TC74HC151AFN

8-Channel Multiplexer

The TC74HC151A is a high speed CMOS 8-CHANNEL MULTIPLEXER fabricated with silicon gate C2MOS technology.

It achieves the high speed operation similar to equivalent LSTTL while maintaining the CMOS low power dissipation.

One of eight date input signals (D0-D7) is selected by decoding of the three-bit address input (A, B, C). The selected data appears on two outputs: non-inverting (Y) and inverting (W).

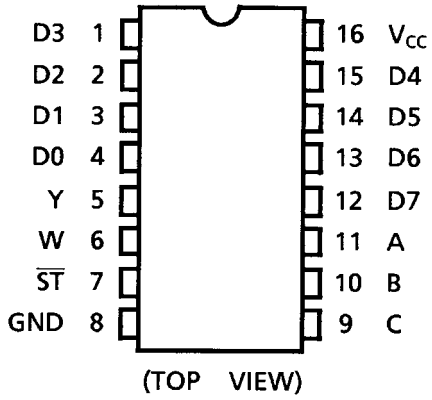
The strobe input provides two output conditions; a low level on the strobe input transfers the selected data to the outputs. A high level on the strobe input sets the Y output low and the W output high without regard to the data or select input conditions.

All inputs are equipped with protection circuits against static discharge or transient excess voltage.

Features

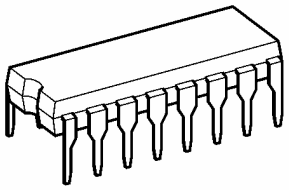
- High speed: t_{pd} = 15 ns (typ.) at V_{CC} = 5 V
- Low power dissipation: I_{CC} = 4 μA (max) at Ta = 25°C
- High noise immunity: $V_{NIH} = V_{NIL}$ = 28% V_{CC} (min)
- Output drive capability: 10 LSTTL loads
- Symmetrical output impedance: $|I_{OH}| = I_{OL}$ = 4 mA (min)
- Balanced propagation delays: $t_{pLH} \simeq t_{pHL}$
- Wide operating voltage range: V_{CC} (opr) = 2 to 6 V
- Pin and function compatible with 74LS151

Pin Assignment



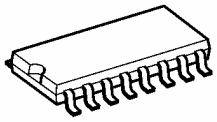
Note: xxxFN (JEDEC SOP) is not available in Japan.

TC74HC151AP



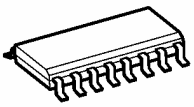
DIP16-P-300-2.54A

TC74HC151AF



SOP16-P-300-1.27A

TC74HC151AFN



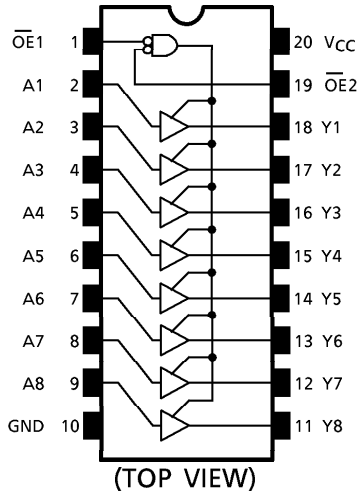
SOL16-P-150-1.27

Weight

DIP16-P-300-2.54A	: 1.00 g (typ.)
SOP16-P-300-1.27A	: 0.18 g (typ.)
SOL16-P-150-1.27	: 0.13 g (typ.)

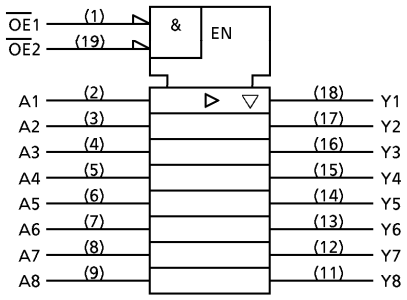
TOSHIBA TC74LCX541F/FW/FT

PIN ASSIGNMENT



(TOP VIEW)

IEC LOGIC SYMBOL

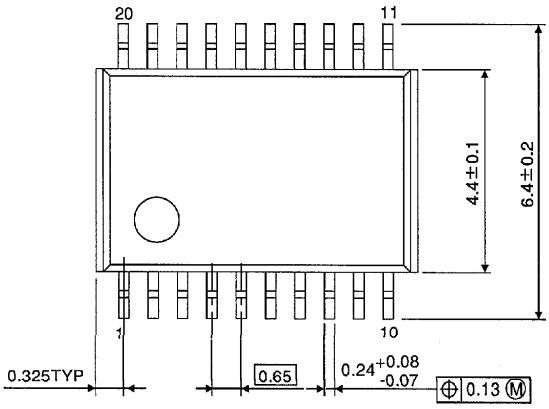


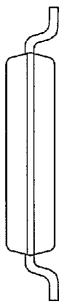
TRUTH TABLE

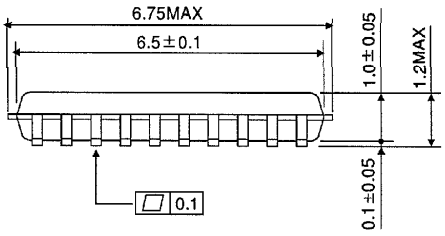
INPUTS			OUTPUTS
$\overline{OE1}$	$\overline{OE2}$	An	
H	X	X	Z
X	H	X	Z
L	L	H	H
L	L	L	L

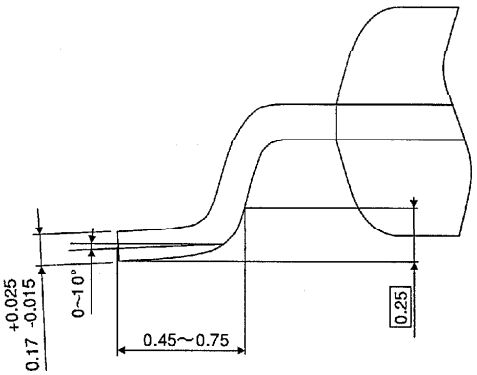
X : Don't Care
Z : High Impedance

OUTLINE DRAWING
TSSOP20-P-0044-0.65



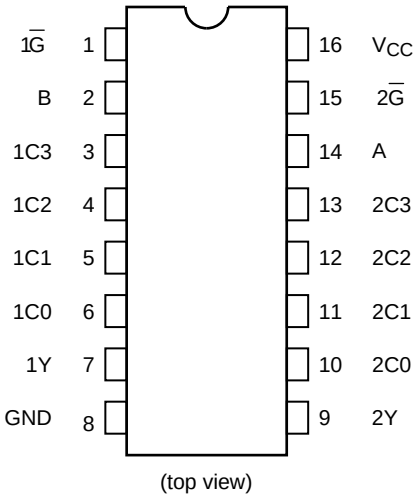






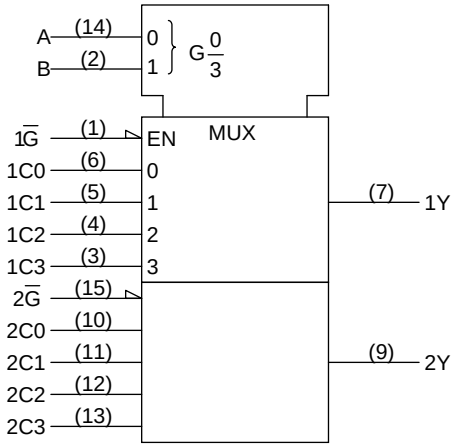
Weight : 0.08g (Typ.)

Pin Assignment



(top view)

IEC Logic Symbol



Truth Table

Select Inputs		Data Inputs				Strobe	Output
B	A	C0	C1	C2	C3	$\overline{G}$	Y
X	X	X	X	X	X	H	L
L	L	L	X	X	X	L	L
L	L	H	X	X	X	L	H
L	H	X	L	X	X	L	L
L	H	X	H	X	X	L	H
H	L	X	X	L	X	L	L
H	L	X	X	H	X	L	H
H	H	X	X	X	L	L	L
H	H	X	X	X	H	L	H

X: Don’t care

TOSHIBA TC74VHC157F/FN/FT

TOSHIBA CMOS DIGITAL INTEGRATED CIRCUIT SILICON MONOLITHIC

TC74VHC157F, TC74VHC157FN, TC74VHC157FT

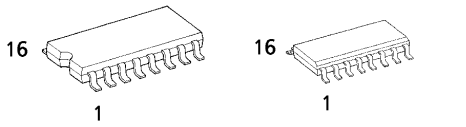
QUAD 2 - CHANNEL MULTIPLEXER

(Note) The JEDEC SOP (FN) is not available in Japan.

The TC74VHC157 is an advanced high speed CMOS QUAD 2 - CHANNEL MULTIPLEXER fabricated with silicon gate C^2MOS technology.
It achieves the high speed operation similar to equivalent Bipolar Schottky TTL while maintaining the CMOS low power dissipation.
It consists of four 2 - input digital multiplexers with common select and strobe inputs.
When the $\overline{STROBE}$ input is held "H" level, selection of data is inhibited and all the outputs become "L" level.
The SELECT decoding determines whether the A or B inputs get routed to their corresponding Y outputs.
An Input protection circuit ensures that 0 to 5.5V can be applied to the input pins without regard to the supply voltage. This device can be used to interface 5V to 3V systems and on two supply systems such as battery back up. This circuit prevents device destruction due to mismatched supply and input voltages.

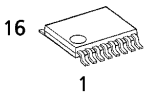
FEATURES :

- High Speed ····· t_{pd} = 4.1ns(typ.) at V_{CC} = 5V
- Low Power Dissipation ····· I_{CC} = 4μA(Max.) at Ta = 25°C
- High Noise Immunity ····· $V_{NIH} = V_{NIL}$ = 28% V_{CC} (Min.)
- Power Down Protection is provided on all inputs.
- Balanced Propagation Delays ····· $t_{pLH} \simeq t_{pHL}$
- Wide Operating Voltage Range ···· V_{CC} (opr) = 2V ~ 5.5V
- Low Noise ····· V_{OLP} = 0.8V (Max.)
- Pin and Function Compatible with 74ALS157



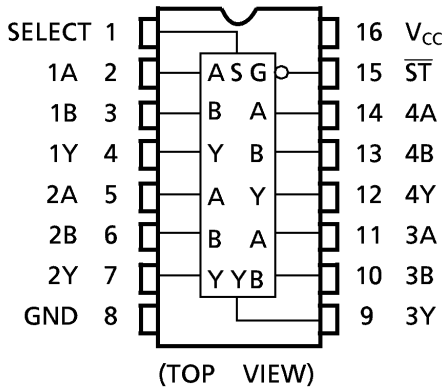
F (SOP16-P-300-1.27)
Weight : 0.18g (Typ.)

FN (SOL16-P-150-1.27)
Weight : 0.13g (Typ.)



FT (TSSOP16-P-0044-0.65)
Weight : 0.06g (Typ.)

PIN ASSIGNMENT



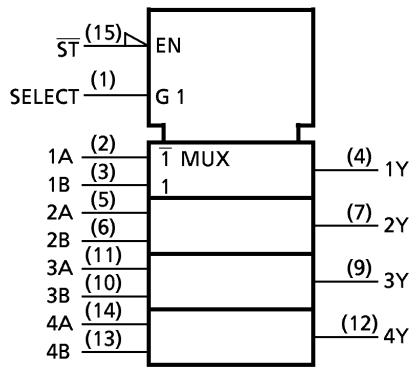
(TOP VIEW)

TRUTH TABLE

INPUTS				OUTPUT
$\overline{ST}$	SELECT	A	B	
H	X	X	X	L
L	L	L	X	L
L	L	H	X	H
L	H	X	L	L
L	H	X	H	H

X : Don't Care

IEC LOGIC SYMBOL

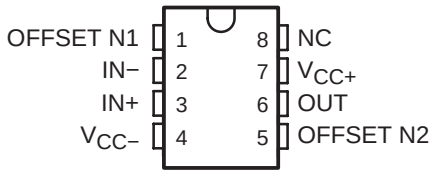


980910EBA2

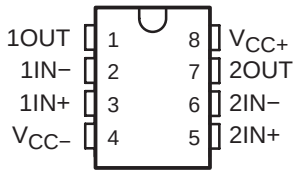
TL071, TL071A, TL071B, TL072
TL072A, TL072B, TL074, TL074A, TL074B
LOW-NOISE JFET-INPUT OPERATIONAL AMPLIFIERS

SLOS080J − SEPTEMBER 1978 − REVISED MARCH 2005

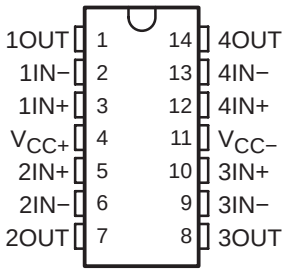
TL071, TL071A, TL071B
D, P, OR PS PACKAGE
(TOP VIEW)



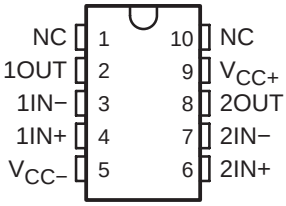
TL072, TL072A, TL072B
D, JG, P, PS, OR PW PACKAGE
(TOP VIEW)



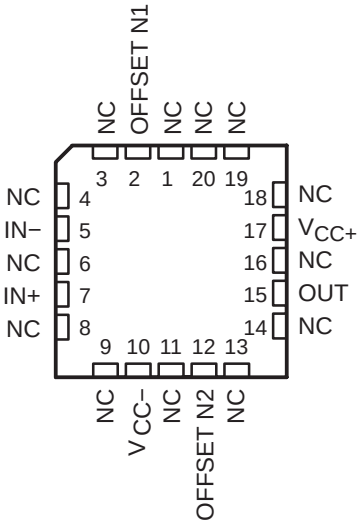
TL074A, TL074B
D, J, N, NS, OR PW PACKAGE
TL074 . . . D, J, N, NS, PW,
OR W PACKAGE
(TOP VIEW)



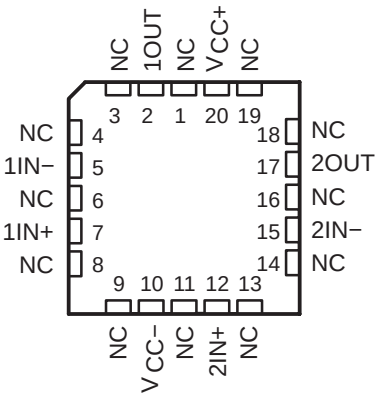
TL072
U PACKAGE
(TOP VIEW)



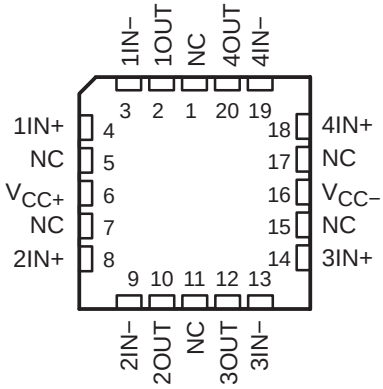
TL071
FK PACKAGE
(TOP VIEW)



TL072
FK PACKAGE
(TOP VIEW)



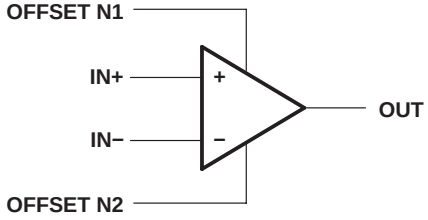
TL074
FK PACKAGE
(TOP VIEW)



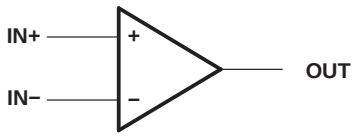
NC − No internal connection

symbols

TL071



TL072 (each amplifier)
TL074 (each amplifier)



DATA SHEET

NEC

MOS FIELD EFFECT TRANSISTOR

μPA672T

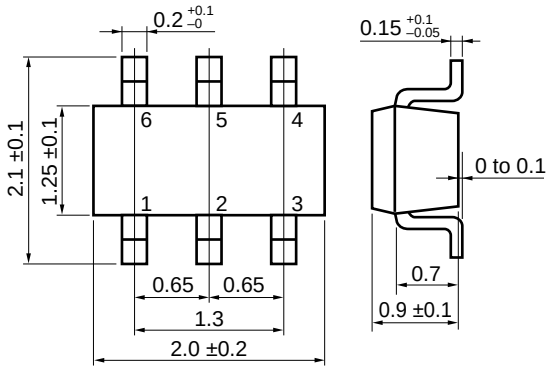
N-CHANNEL MOS FET ARRAY FOR SWITCHING

The μPA672T is a super-mini-mold device provided with two MOS FET elements. It achieves high-density mounting and saves mounting costs.

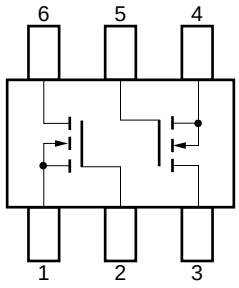
FEATURES

- Two MOS FET circuits in package the same size as SC-70
- Automatic mounting supported

PACKAGE DIMENSIONS (in millimeters)



PIN CONNECTION



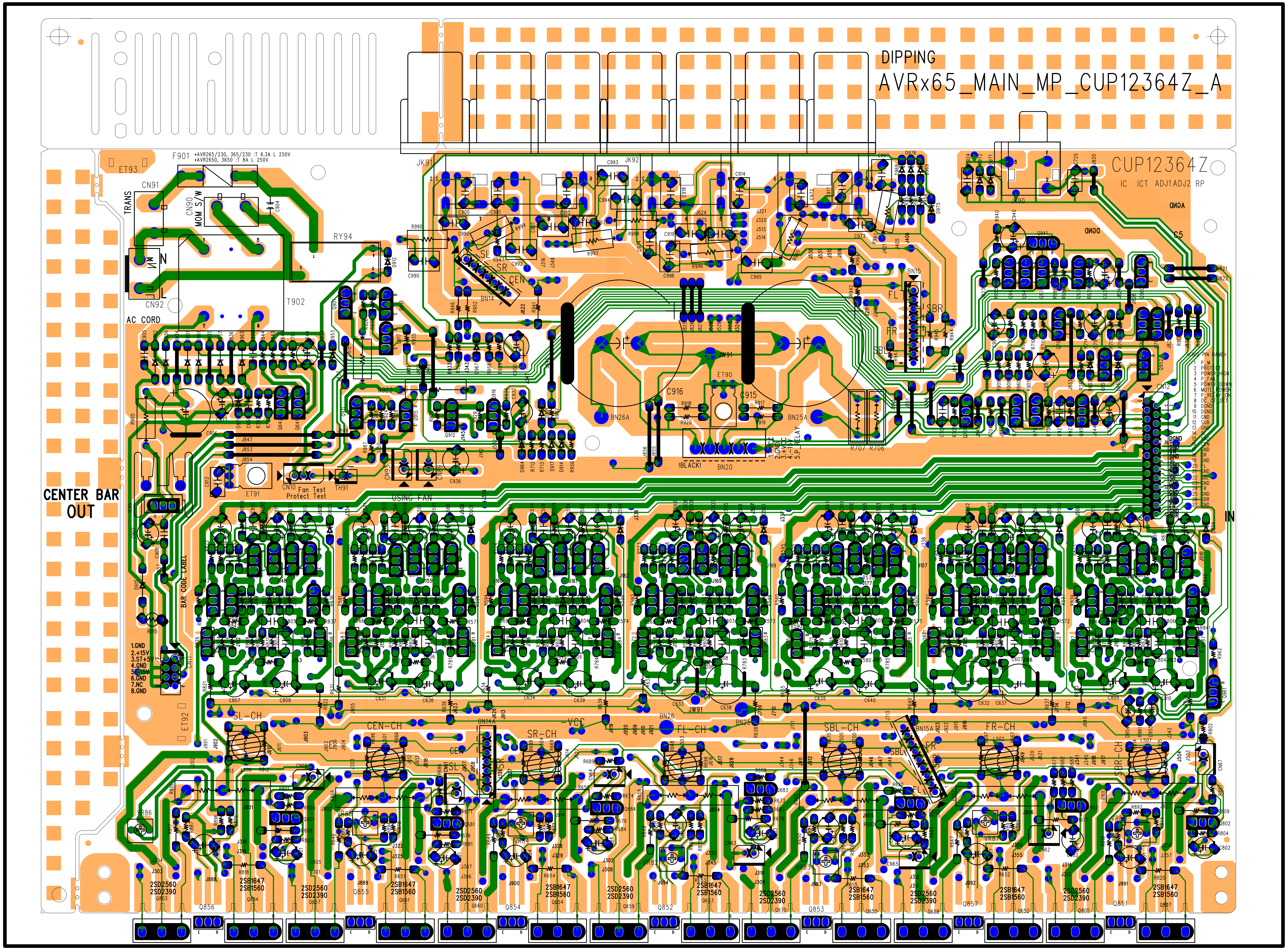
1. Source 1 (S1)
2. Gate 1 (G1)
3. Drain 2 (D2)
4. Source 2 (S2)
5. Gate 2 (G2)
6. Drain 1 (D1)

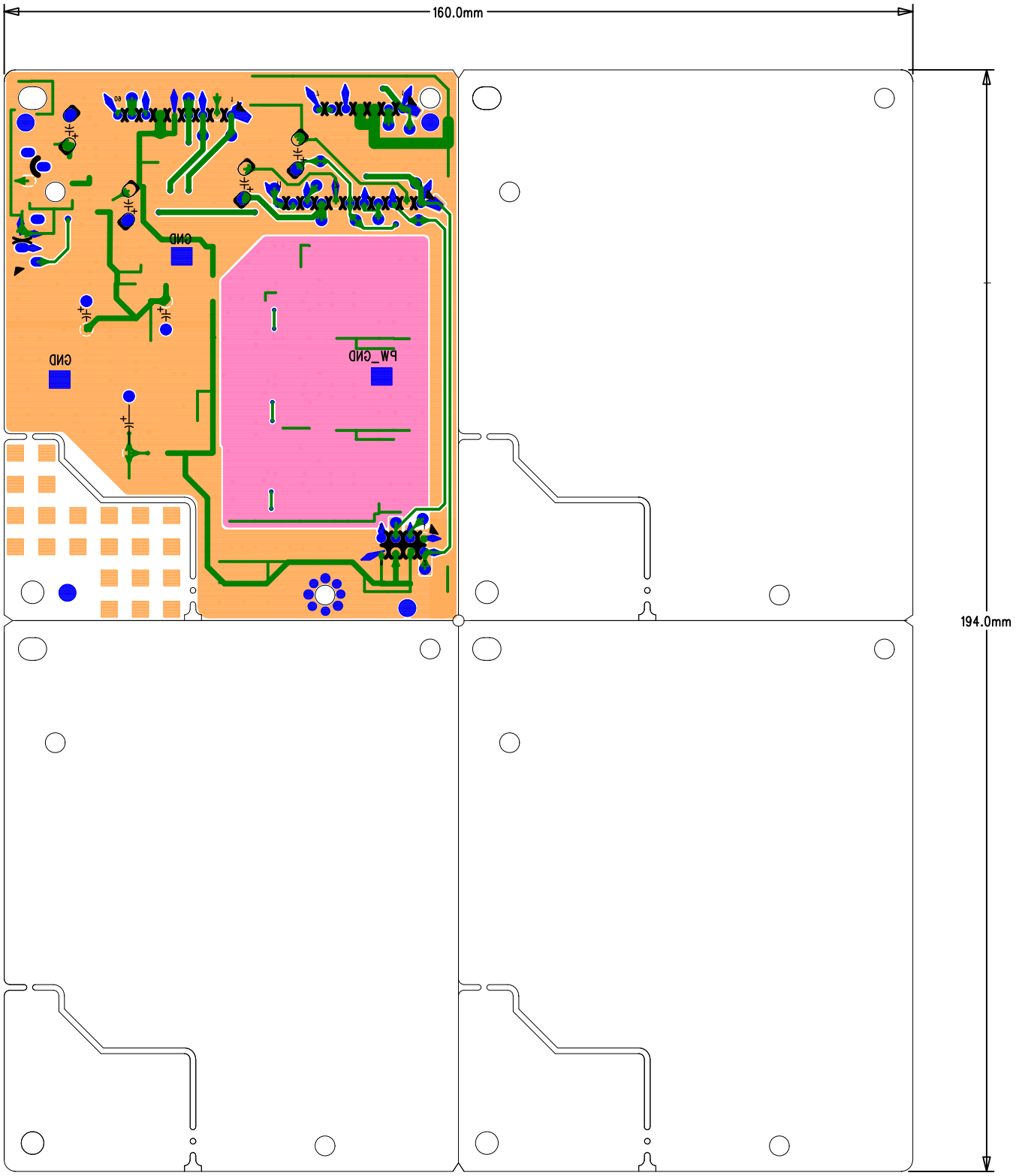
Marking: MA

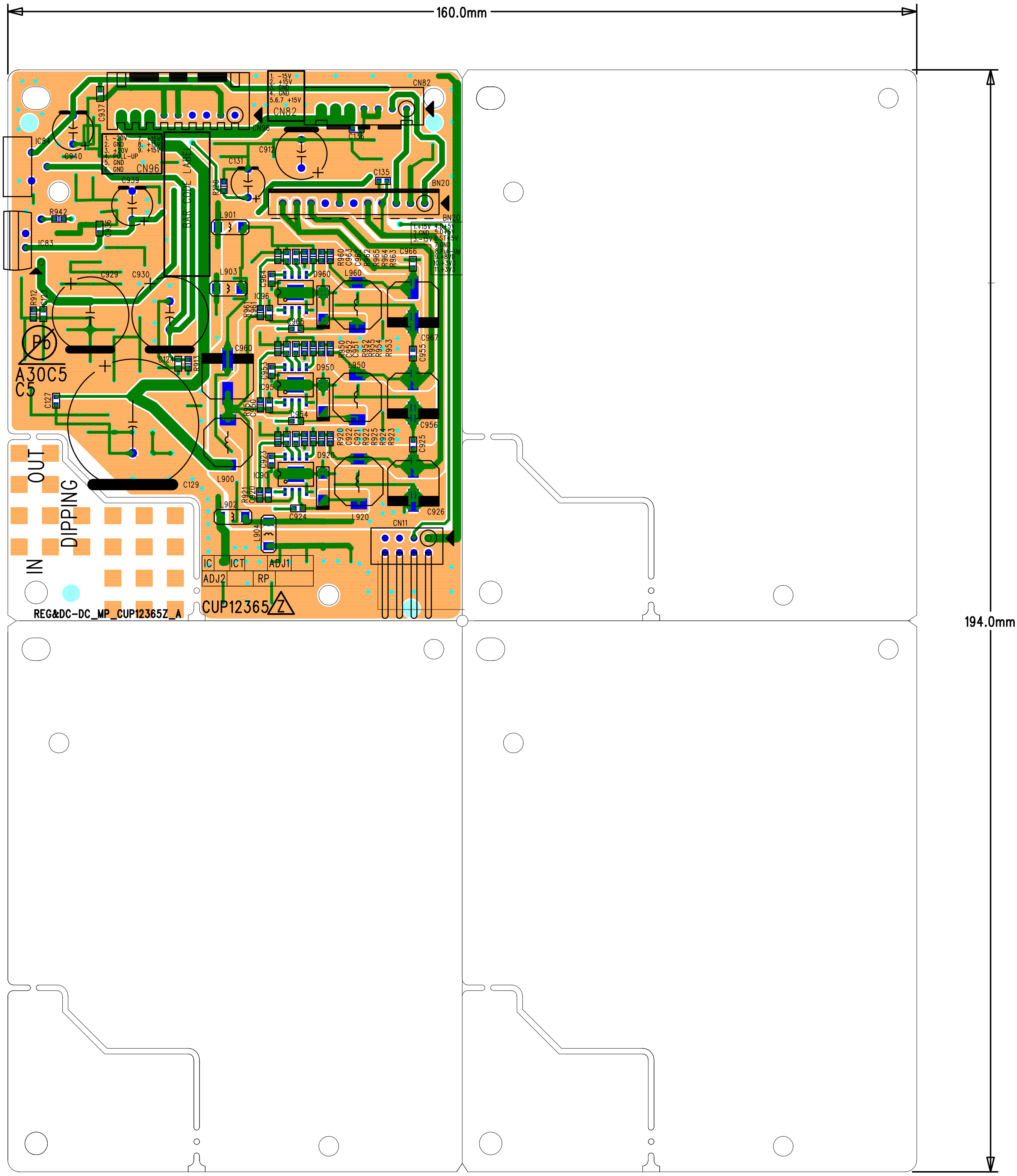
ABSOLUTE MAXIMUM RATINGS (T_A = 25 °C)

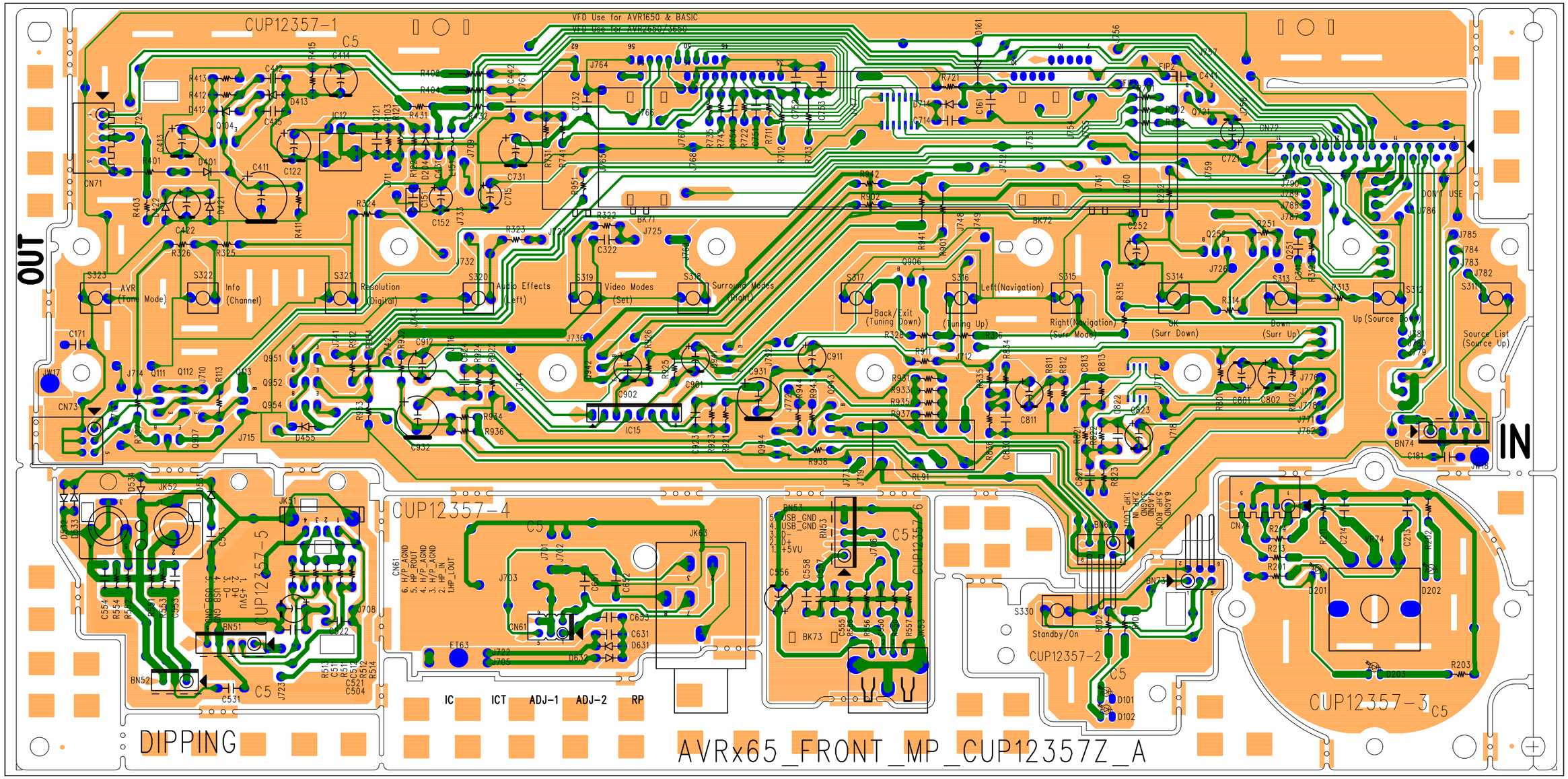
PARAMETER	SYMBOL	TEST CONDITIONS	RATINGS	UNIT
Drain to Source Voltage	V_{DSS}		50	V
Gate to Source Voltage	V_{GSS}		±7.0	V
Drain Current (DC)	$I_{D(DC)}$		100	mA
Drain Current (pulse)	$I_{D(pulse)}$	PW ≤ 10 ms, Duty Cycle ≤ 50 %	200	mA
Total Power Dissipation	P_T		200 (Total)	mW
Channel Temperature	T_{ch}		150	°C
Storage Temperature	T_{stg}		–55 to +150	°C

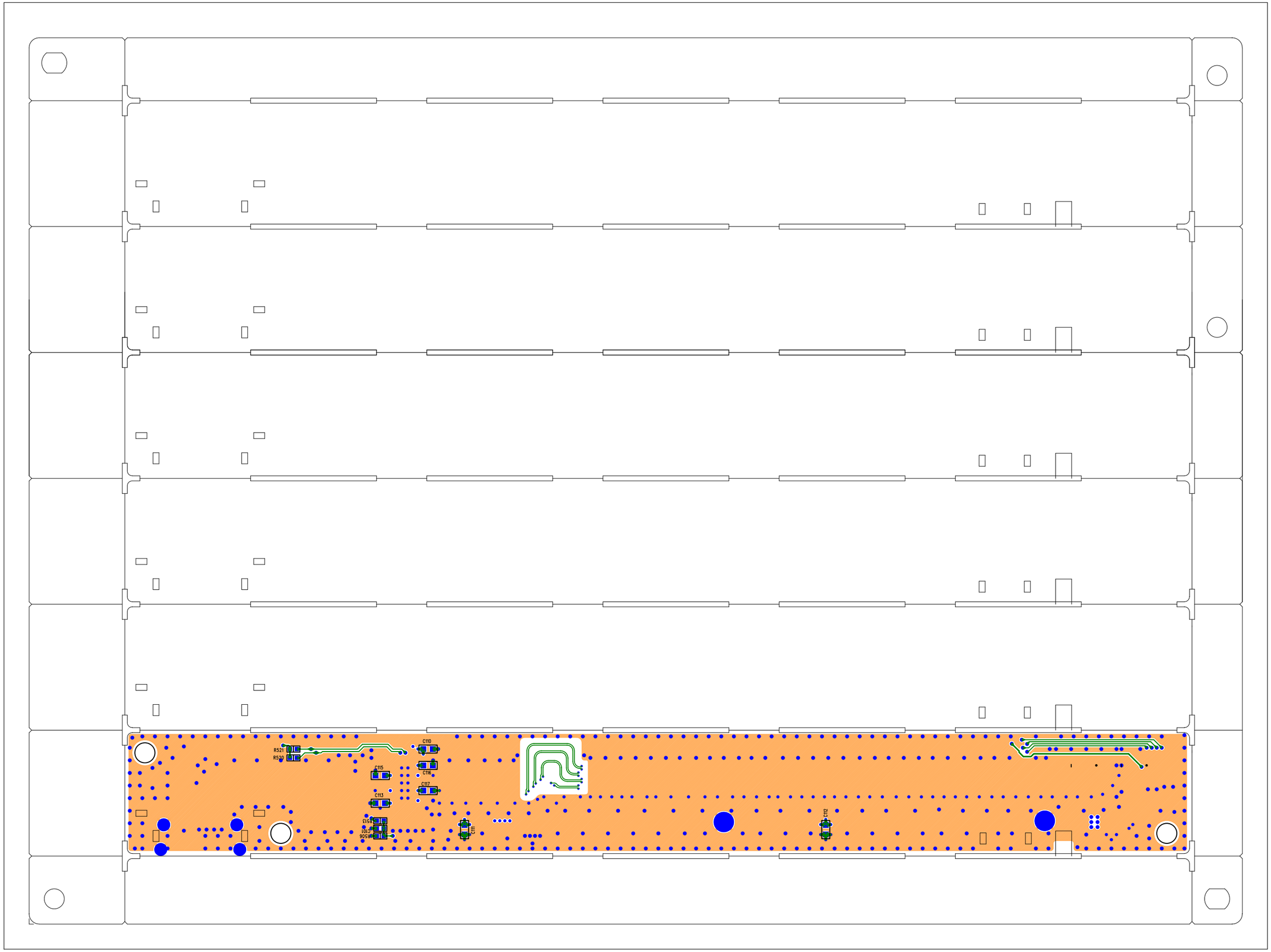
Document No. G11259EJ1V0DS00 (1st edition)
Date Published June 1996 P
Printed in Japan

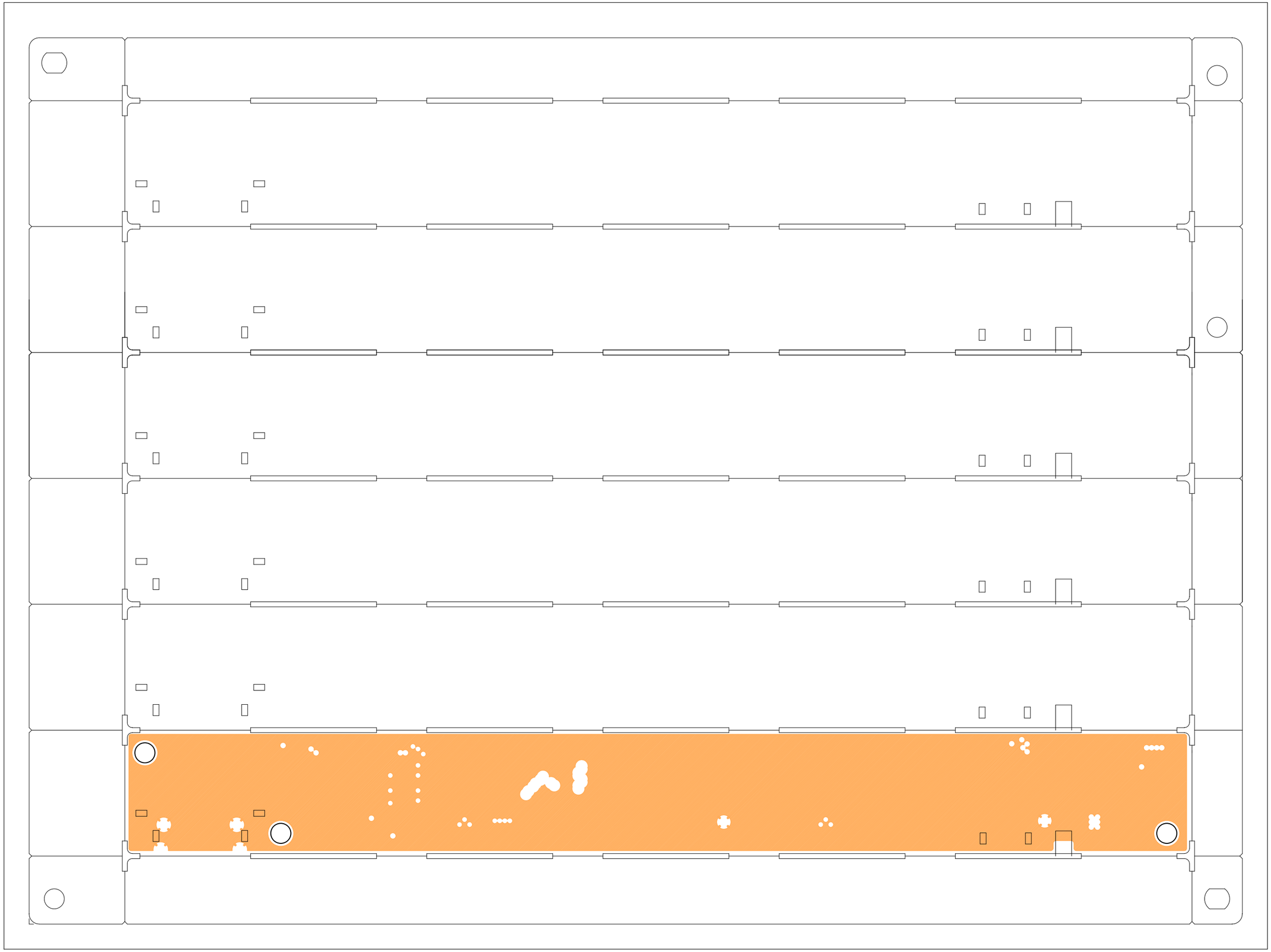

DIPPING
AVRx65_MAIN_MP_CUP12364Z_A
CUP12364Z
CENTER BAR OUT
AC CORD
TRANS
BAR CODE LABEL
SL-CH
CEN-CH
SR-CH
FL-CH
SBL-CH
FR-CH
SBR-CH
USING FAN
Fan Test
Protect Test
!BLACK!
1.GND
2.+15V
3.ST+5V
4.GND
5.-15V
6.GND
7.NC
8.GND
IN

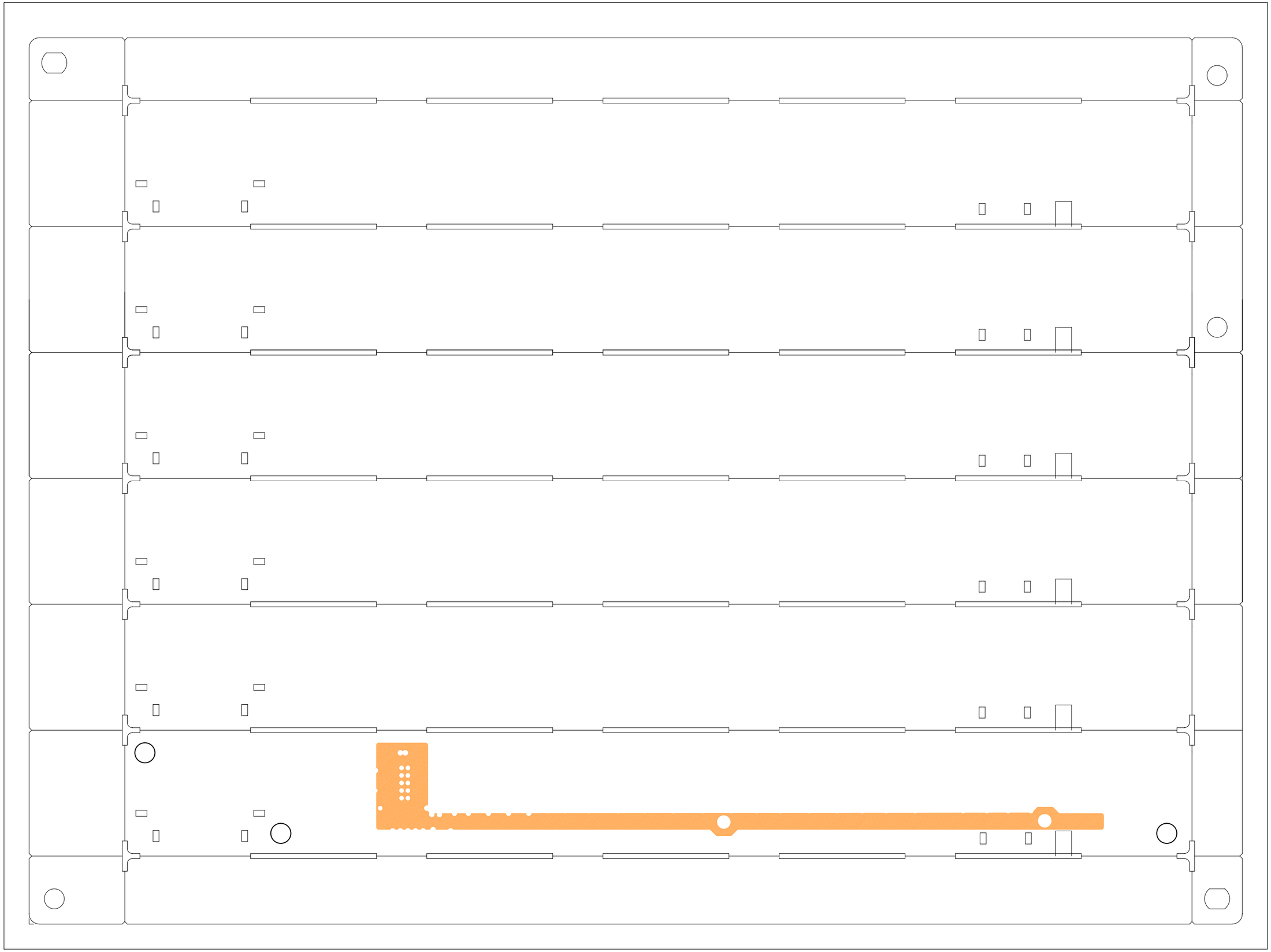

160.0mm
194.0mm
GND
GND
PM_GND

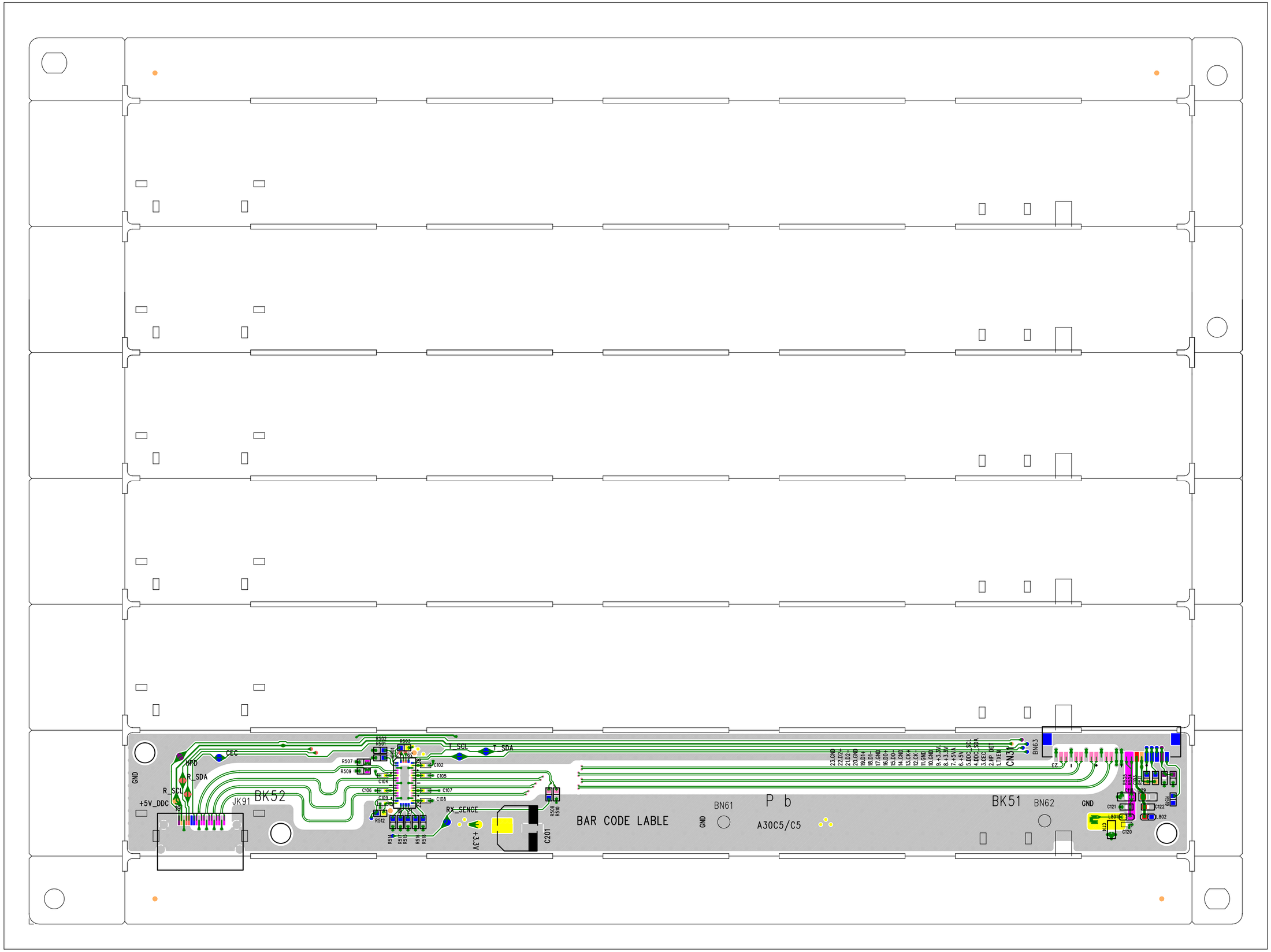

160.0mm
194.0mm
REG&DC-DC_MP_CUP12365Z_A
CUP12365Z
A30C5
C5
DIPPING
OUT
IN
CN96
CN82
BN20
CN11
BAR CODE LABEL

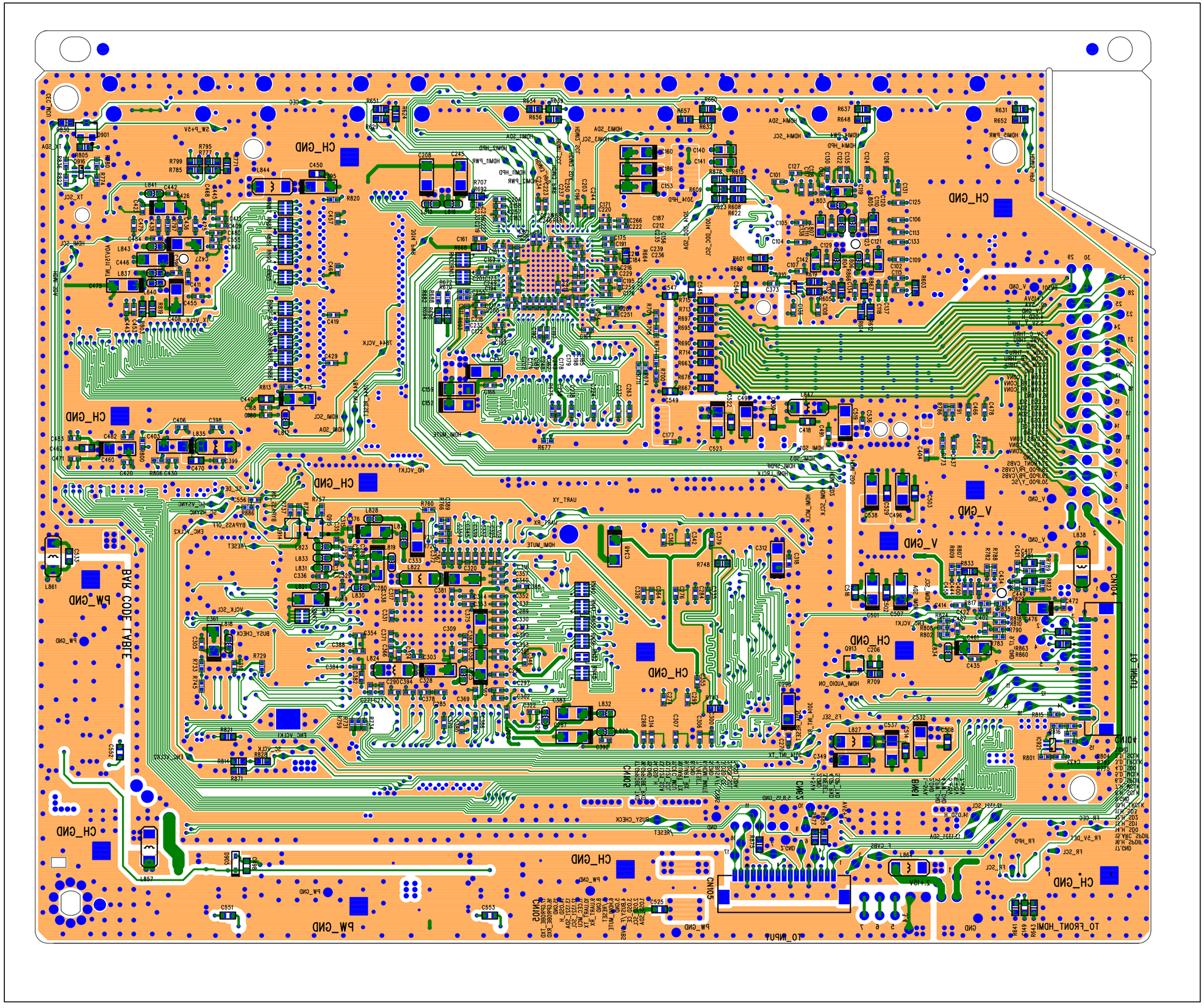

CUP12357-1
C5
VFD Use for AVR1650 & BASIC
VFD Use for AVR265/3650
OUT
IN
AVR (Tone Mode)
Info (Channel)
Resolution (Digital)
Audio Effects (Left)
Video Modes (Set)
Surround Modes (Right)
Back/Exit (Tuning Down)
(Tuning Up)
Left(Navigation)
Right(Navigation) (Surr Mode)
OK (Surr Down)
Down (Surr Up)
Up (Source Down)
Source List (Source Up)
DOWN USE
CN71
CN72
CN73
CN74
BN51
BN52
BN53
BN74
S323
S322
S321
S320
S319
S318
S317
S316
S315
S314
S313
S312
S311
S330
Standby/On
CUP12357-4
CUP12357-5
CUP12357-6
CUP12357-2
CUP12357-3
DIPPING
AVRx65_FRONT_MP_CUP12357Z_A
IC
ICT
ADJ-1
ADJ-2
RP

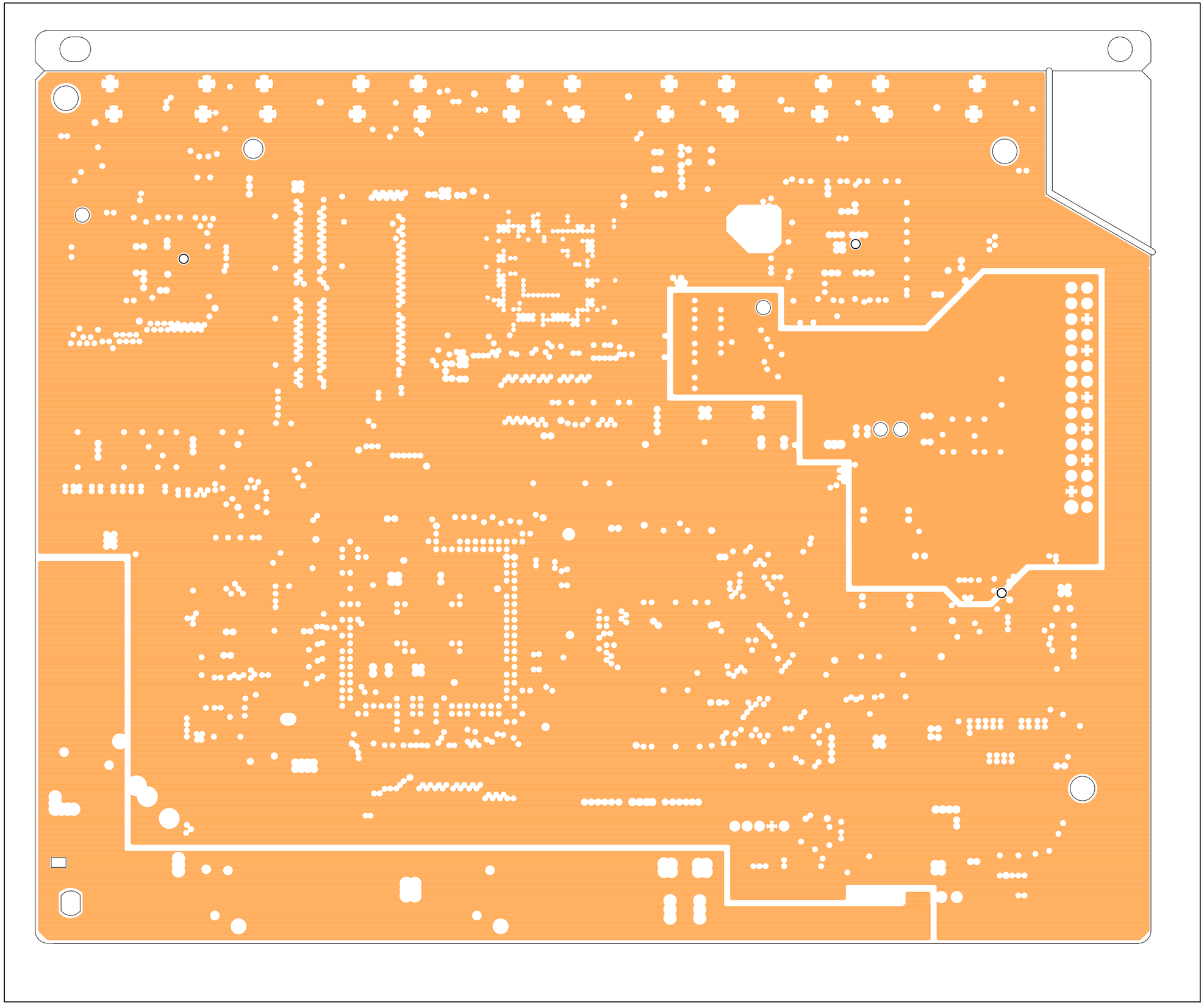

R521
R520
C110
C116
C115
C117
C113
C111
C112

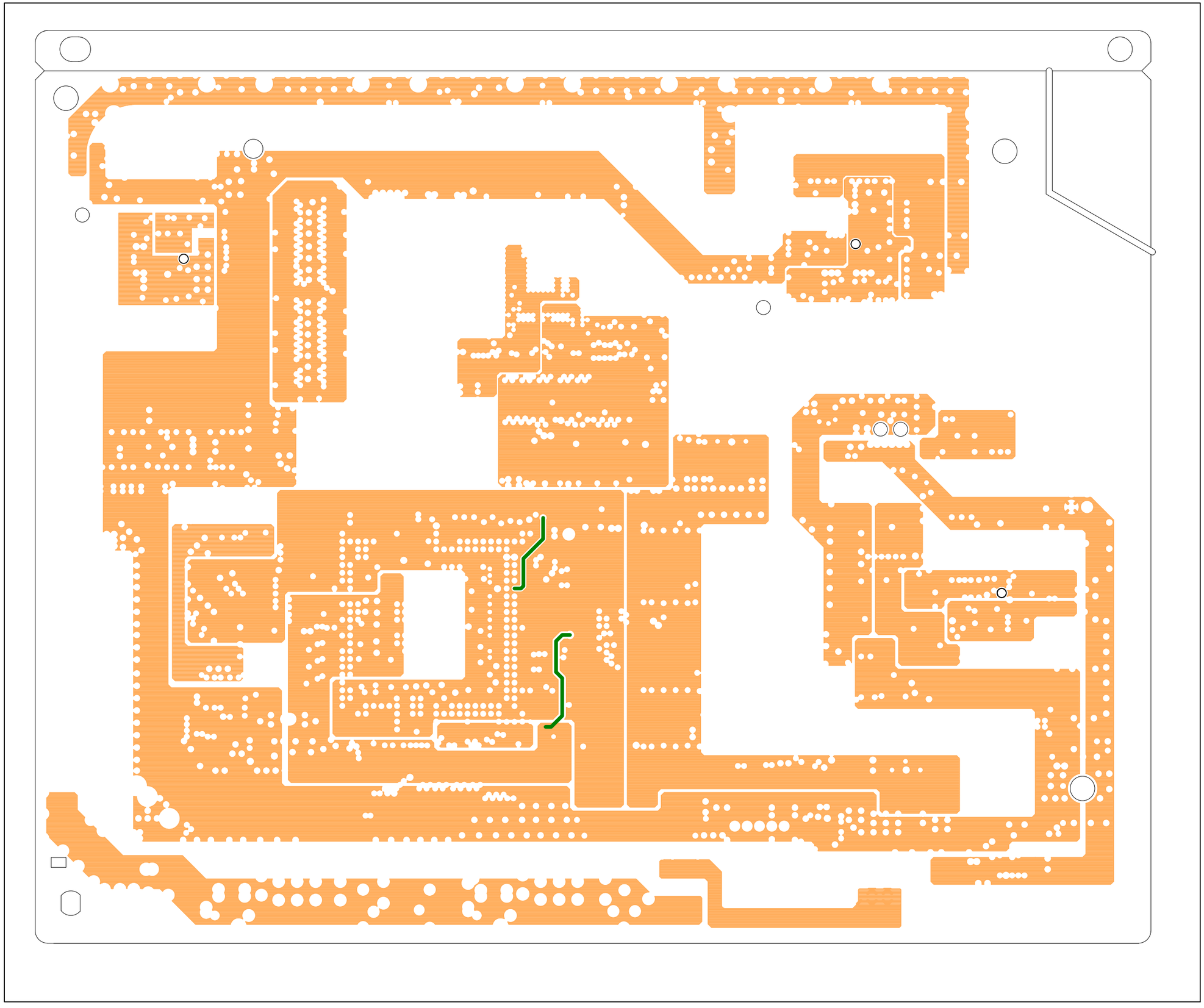


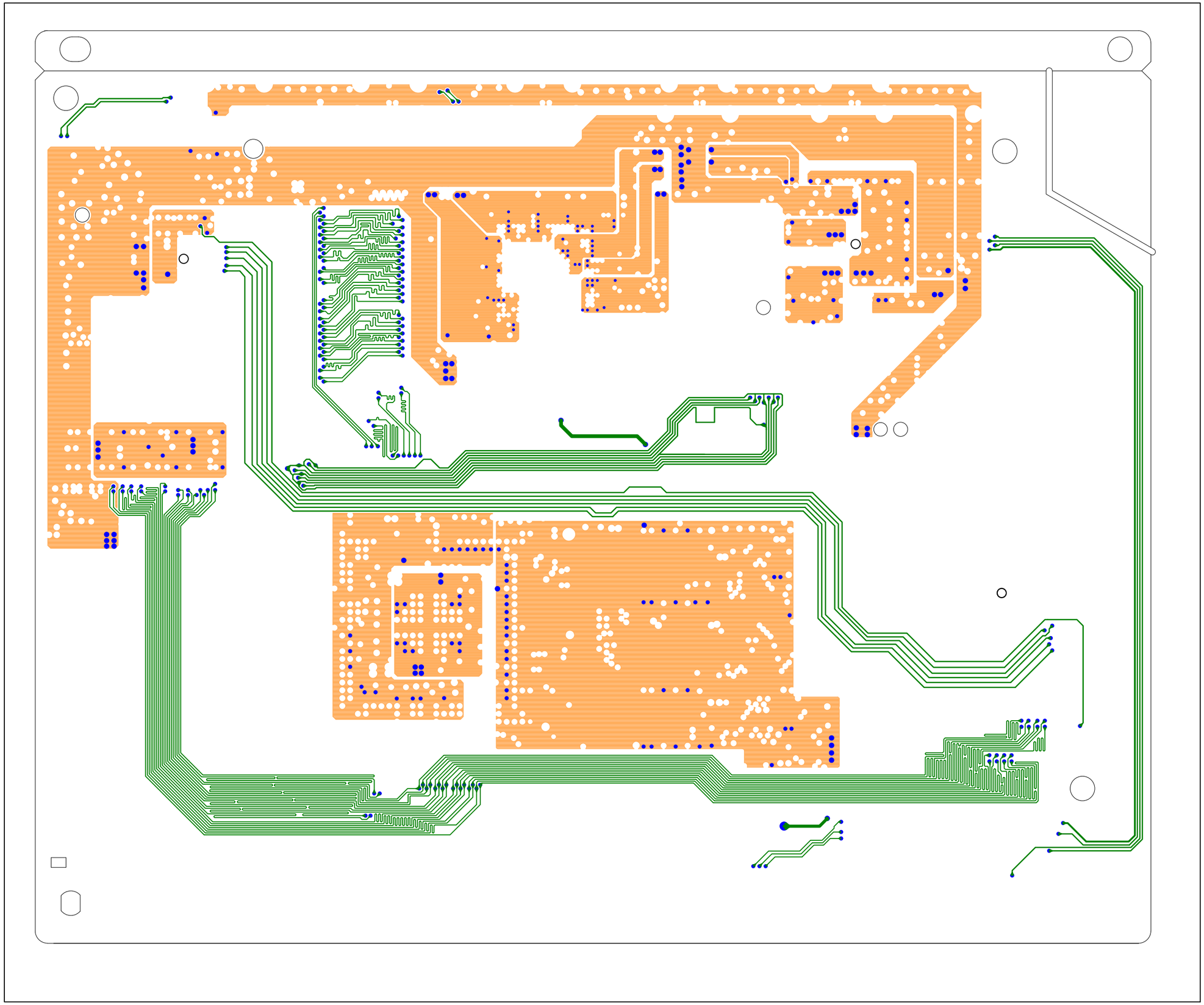


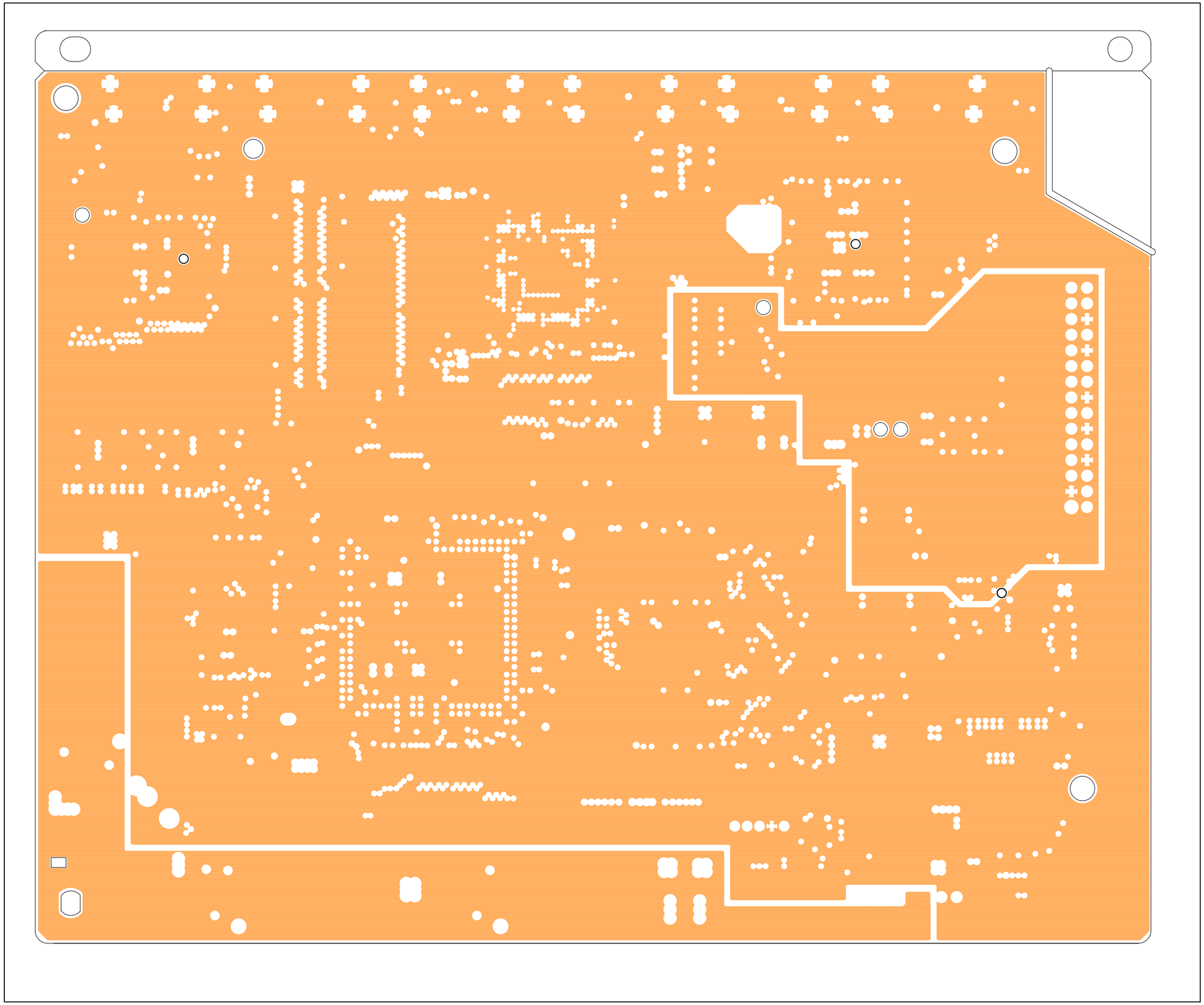

CEC
HPD
R_SDA
R_SCL
+5V_DDC
GND
JK91
BK52
R_SCL
R_SDA
RX_SENCE
+3.3V
C201
BAR CODE LABLE
BN61
GND
P b
A30C5/C5
BK51
BN62
GND
BN63
CN3
23.GND
22.D2+
21.D2-
20.GND
19.D1+
18.D1-
17.GND
16.D0+
15.D0-
14.GND
13.CK+
12.CK-
11.GND
10.GND
9.+3.3V
8.+3.3V
7.+5V
6.+5V
5.DDC_SCL
4.DDC_SDA
3.CEC
2.HPD
1.VEER

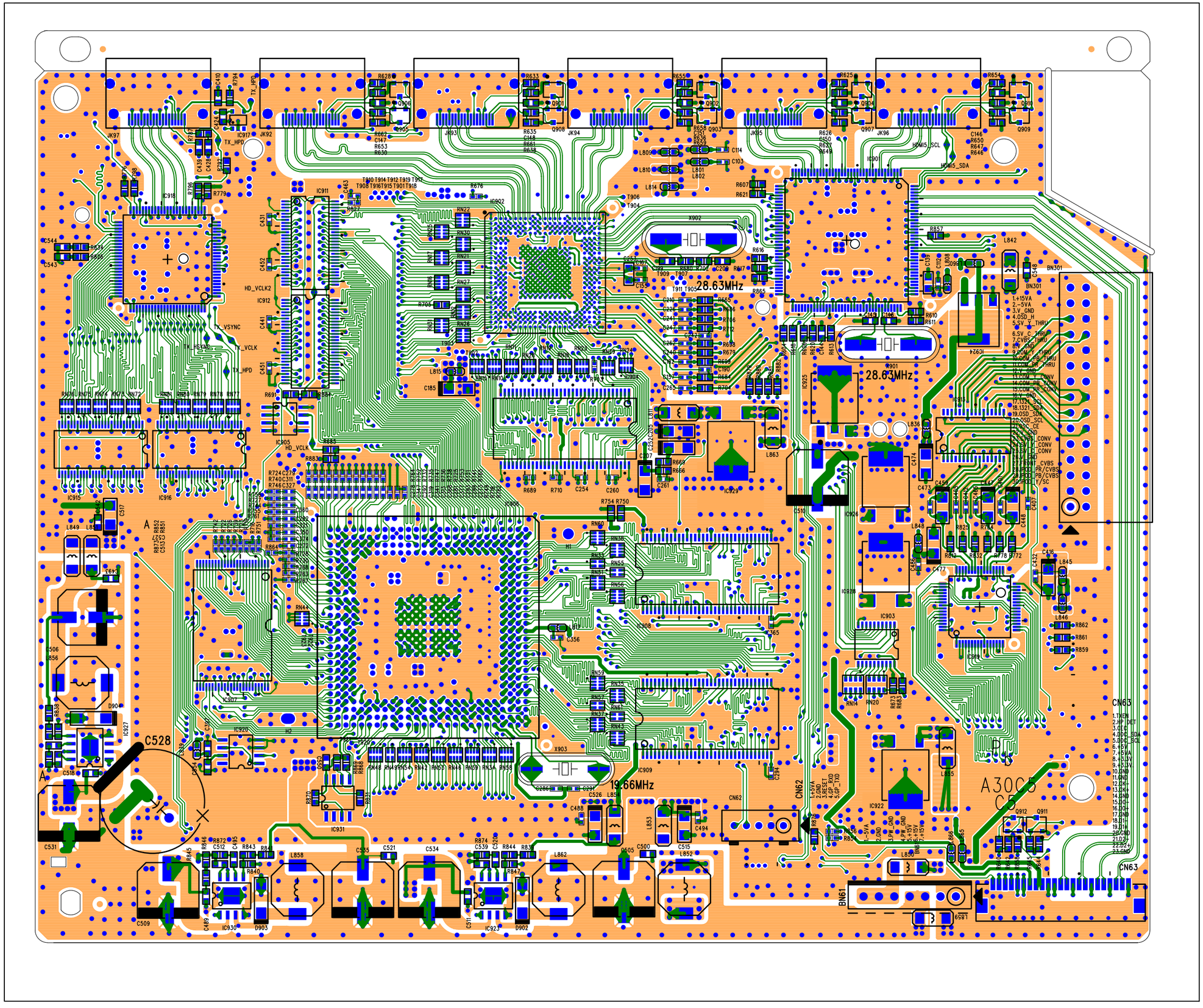

CH_GND
V_GND
PM_GND
BAR CODE TABLE
TO_INPUT
TO_FRONT_HDMI

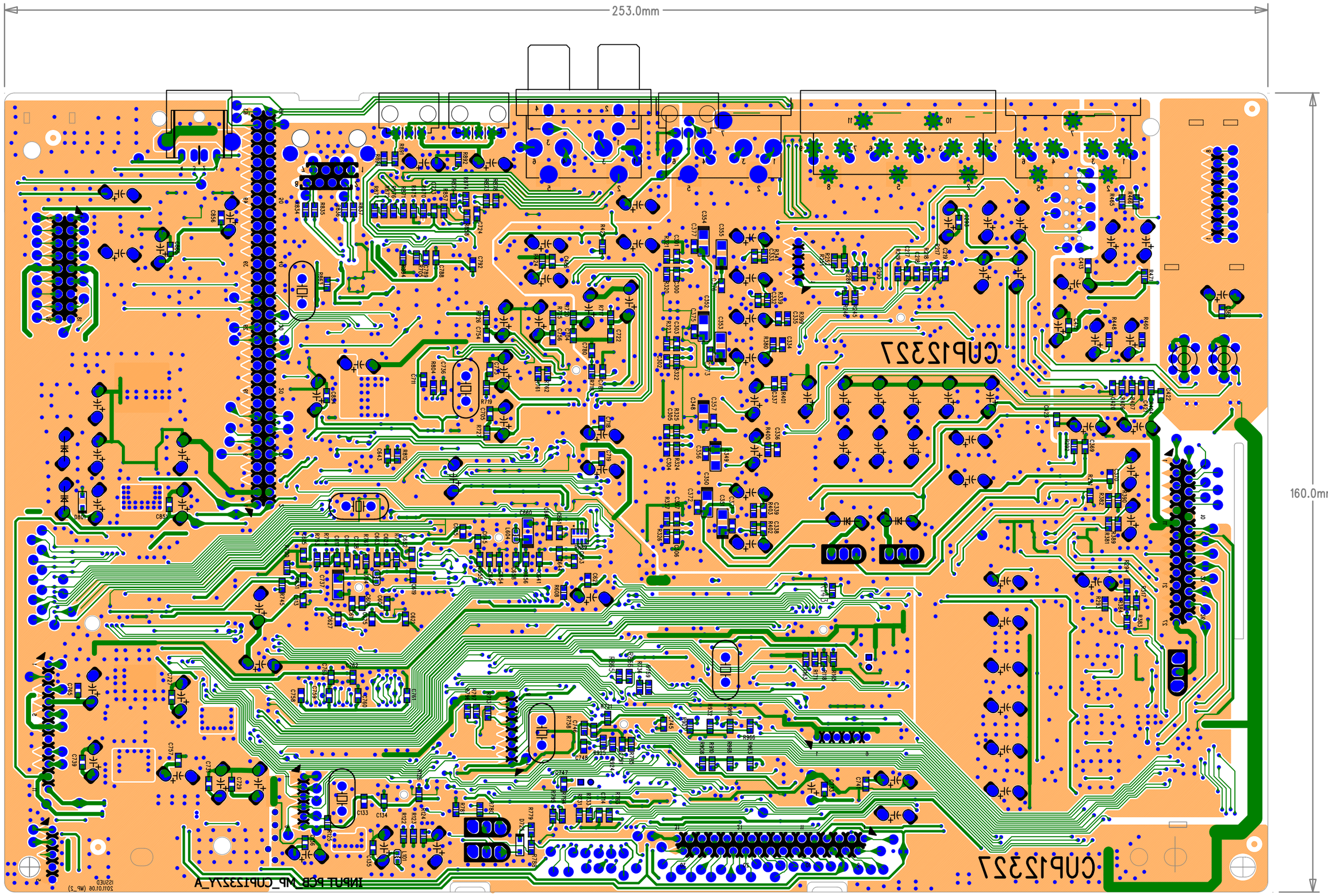


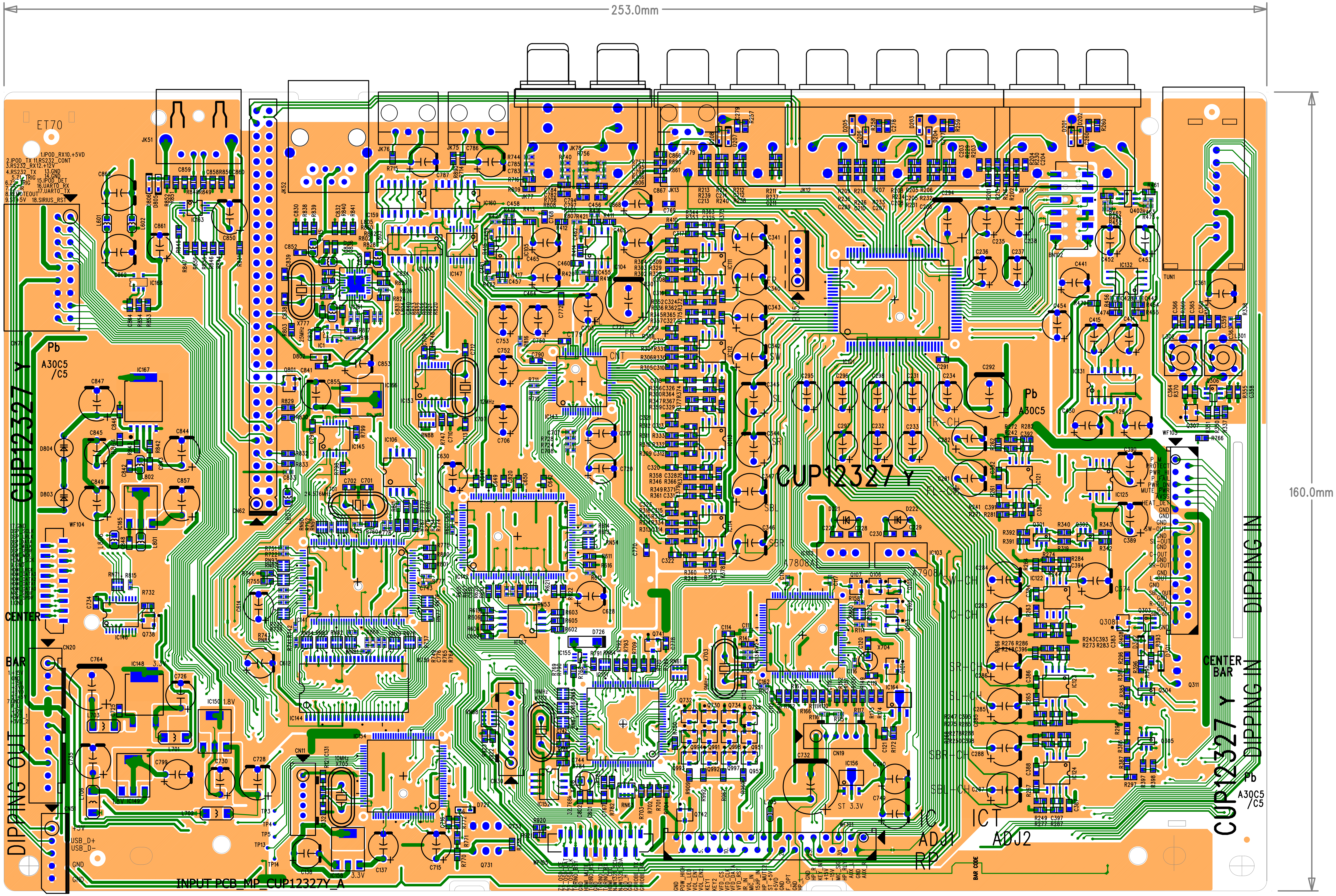




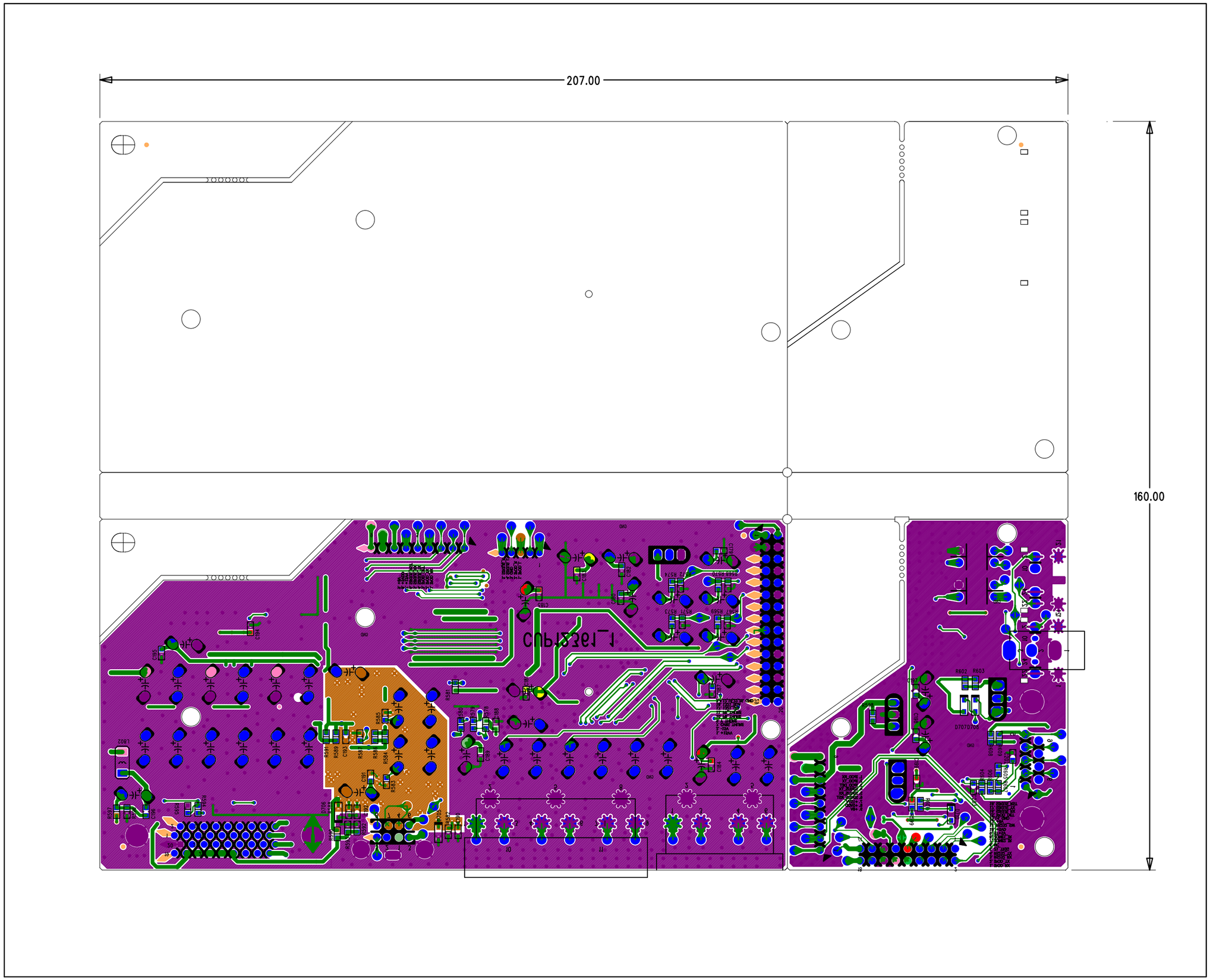


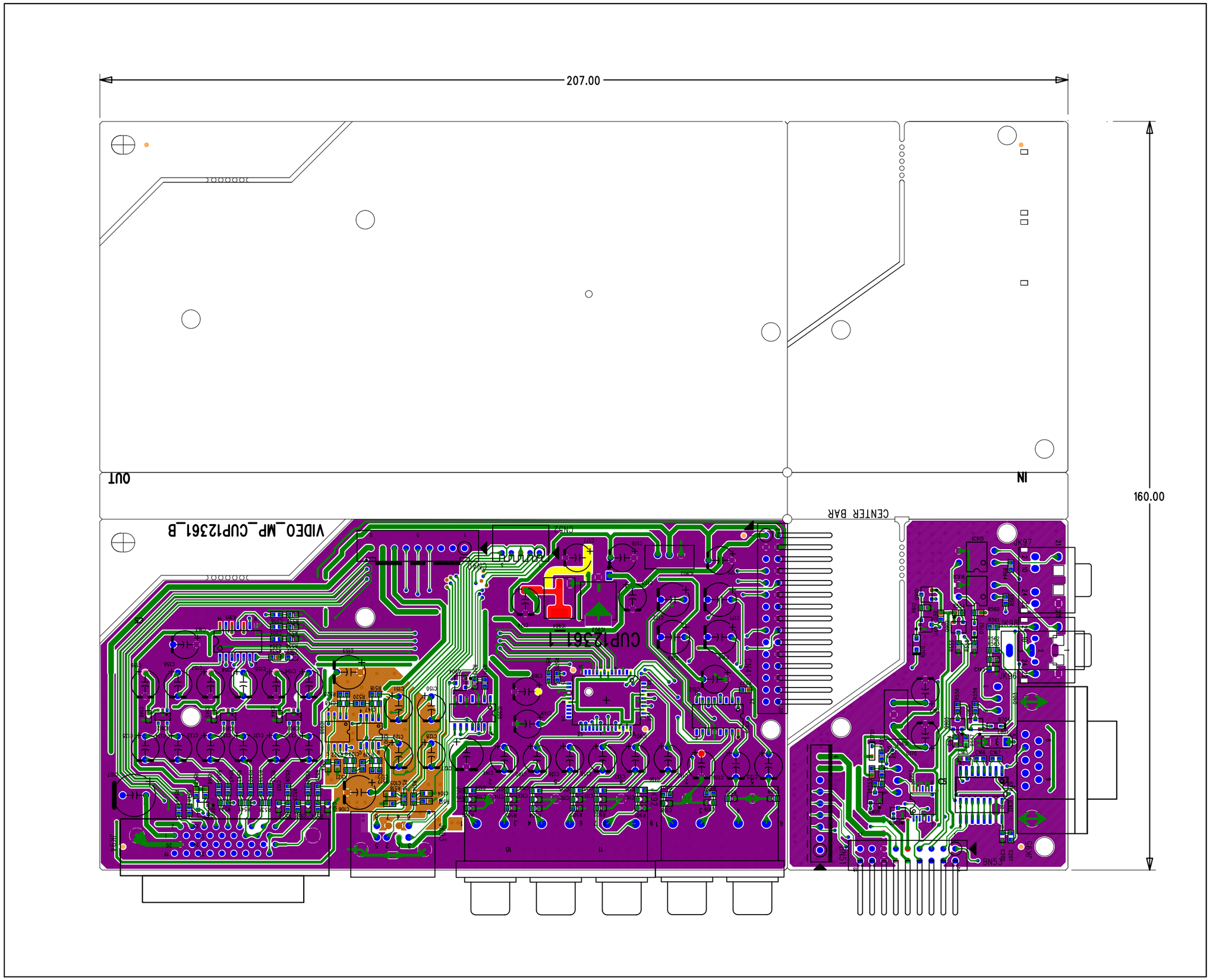

JK97
JK92
JK93
JK94
JK95
JK96
TX_HPD
HDMI5_SCL
HDMI5_SDA
IC918
IC911
IC902
IC901
IC912
IC905
IC915
IC916
IC906
IC907
IC908
IC909
IC913
IC914
IC925
IC926
IC928
IC929
IC903
IC920
IC927
IC930
IC931
IC922
IC923
HD_VCLK2
HD_VCLK
TX_VSYNC
TX_HSYNC
TX_VCLK
X902
28.63MHz
X901
28.63MHz
X903
19.66MHz
C528
BN301
1.+15VA
2.-5VA
3.V_GND
4.OSD_H
5.SV_Y_THRU
6.SV_C_THRU
7.CVBS_THRU
8.V_GND
9.COM_Y_THRU
10.COM_PB_THRU
11.COM_PR_THRU
12.V_GND
13.COM_Y_CONV
14.COM_PB_CONV
15.COM_PR_CONV
16.V_GND
17.1321_SCL
18.1321_SDA
19.OSD_SDA
20.OSD_SCL
21.OSC_CE
22.V_GND
23.CVBS_CONV
24.SV_Y_CONV
25.SV_C_CONV
26.V_GND
27.FRONT_CVBS
28.IPOD_PR/CVBS
29.IPOD_PB/CVBS
30.IPOD_Y/SC
CN63
1.TXEN
2.HP_DET
3.CEC
4.DDC_SDA
5.DDC_SCL
6.+5V
7.+5VA
8.+3.3V
9.+3.3V.
10.GND
11.GND
12.CK-
13.CK+
14.GND
15.D0-
16.D0+
17.GND
18.D1-
19.D1+
20.GND
21.D2-
22.D2+
23.GND
CN62
BN61
A30C5
C5


253.0mm
160.0mm
CUP1232/7
CUP1232/7
INPUT PCB_MP_CUP1232/7_A



AVR400_INPUT_MP_CUP1232 - Tue May 17 11:28:56 2011


207.00
160.00


207.00
160.00
OUT
IN
CENTER BAR
VIDEO_MP_CUP12361_B
CUP12361_1

<Audio Block> AVR CORE AUDIO BLOCK DIAGRAM

3 ANALOG AUDIO INPUT
TUNER AUDIO INPUT
AUTO SETUP MIC INPUT

"R2A15218FP"
8-CH VOLUME
WITH INPUT SELECTOR

HEADPHONE OUTPUT

POWER AMP
FRONT L +26dB FL
FRONT R +26dB FR
SBL/ZONE2 L +26dB SBL/ZONE2 L
SBR/ZONE2 R +26dB SBR/ZONE2 R
SURR L +26dB SL
SURR R +26dB SR
CENTER +26dB CEN

SPEAKER OUTPUT
FL
FR
SBL/ZONE2 LEFT
SBR/ZONE2 RIGHT
SL
SR
CEN

"BD3812F"
ZONE2 VOLUME

S/W_PREOUT
ZONE2_PREOUT

A/D CONVERTER INPUT
7.1 CHANNEL
D/A CONVERTER OUTPUT

"TMP92FD28FG"
32bit u-COM(USB HOST)
For F/W UPGRADE THROUGH USB
USB D+/D-

DIGITAL AUDIO INPUT
2 TOSLINK, 2 COAXIAL
DAB/USB/NETWORK
S/PDIF INPUT

"CS42528"
DIN
8-CH CODEC WITH S/PDIF RECEIVER
SAI
SDIN

SERIAL AUDIO INTERFACE
SERIAL AUDIO DATA OUTPUT

VOLUME IC CONTROL
CODEC CONTROL
DSP CONTROL
HDMI CONTROL
BLACKFIN CONTROL
TUNER CONTROL

"T5CN5"
32bit u-COM

F/W UPGRADE & UART CONTROL
I2C EEPROM(32 Kbit)
FOR BACK-UP MEMORY.
VFD CONTROL
IR CONTROL INPUT
ZONE1, ZONE2

RS232C
CONTROL PORT

HDMI PART
HDMI RX & ARC
S/PDIF INPUT
HDMI RX AUDIO INPUT
HDMI TX AUDIO OUTPUT

I2S

"CS49834"
Audio Decoder DSP
DAI1
DAO1
DAI2
DAO2
Supporting HD AUDIO
featuring Multichannel
Dolby Volume

ADDRESS&DATA
16Mbit SDRAM
32 Mbit SPI Serial Flash

TUNER MODULE
TUNER L/R
TUNER CONT.

AVR CORE VIDEO BLOCK DIAGRAM

TO DSP Block
DIR SPDIF
DIR_SPDIF
HDMI I2S AUDIO DATA
Venice 6.2 Digital AUDIO
DSP I2S AUDIO DATA
DOWNMIX AUDIO
ARC_SPDIF

HDMI_OUT
(Up to 1080p)
HDMI TX
TMDS 225MHz [MAX]

HDMI IN
(Up to 1080p)
TMDS Data
HDMI_IN1
HDMI_IN2
HDMI_IN3
HDMI_IN4
HDMI_IN5
HDMI_FRONT
HDMI BUFFER
HDMI S/W
ADV3014
AVR365/3650 ONLY

28.6363MHz *2EA
TMDS 225MHz [MAX]
DECODER&ADC
HDMI RX
ADV7844
DDR SDRAM
256M * 1EA

20Bit LINE DRIVER *2
HDMI BYPASS MODE
HDMI DIGITAL VIDEO
36bit Video Data
DIGITAL VIDEO DATA
30/36bit Video Data
ADV7511

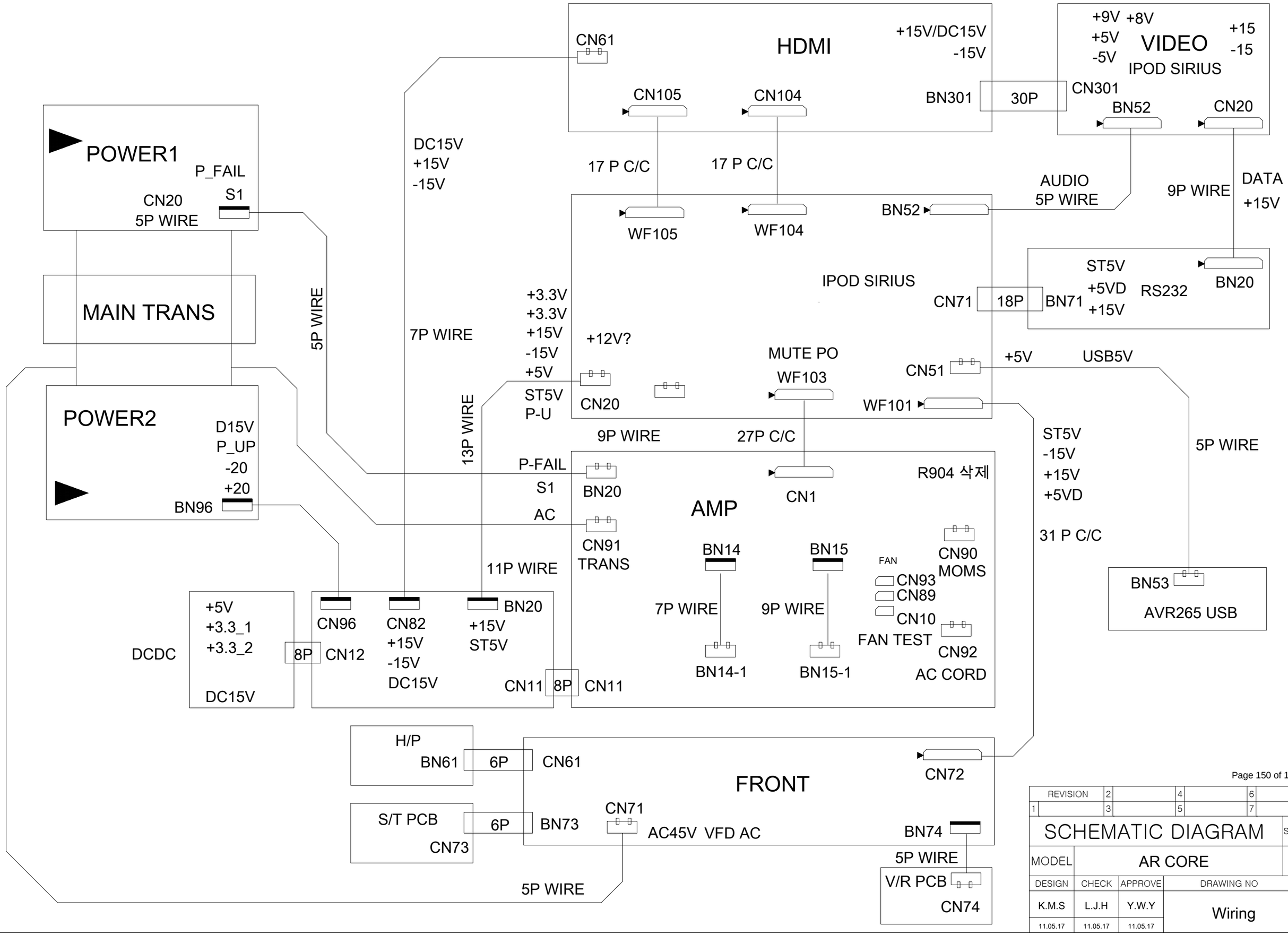
Analog Video Boad

CVBS IN
VIDEO1
VIDEO2
REC OUT
MONITOR OUT
CVBS
VID1
VID2
NJM2595
CONT
+6dB DRV
CVBS REC OUT
CVBS MON OUT

COMPONENT IN
(Up to 1080p)
COMPO INPUT2
COMPO INPUT1
Y
Cb
Cr
SW1
SW2
SW3
SW4
+6dB
NJM1321

SCALING BYPASS MODE
20Bit LINE DRIVER *2
HDMI DIGITAL VIDEO
Under 30bit Video Data
SCALING DIGITAL VIDEO
30bit Video Data
19.668MHz
SCALER
1080p Up
Scaler
FIL30336
SCALING DIGITAL VIDEO
DDR SDRAM
256M * 2EA
FLASH MEMORY
32M

Venice Board
RJ-45
Ethernet
PULES
LAN8700
Ethernet
MAC&PHY
KSZ8851SNL
Micrel
USB
JTAG
DEBUG
USB2.0 ETH MAC
DAB
Venice6.2 (DAB/DAB+)
GPIO
00:43
GPIO I/F
SCB
UART
To Main MCU
SPI I2S/SPDIF
To DSP
Venice 6.2 AUDIO Output
To Main MCU



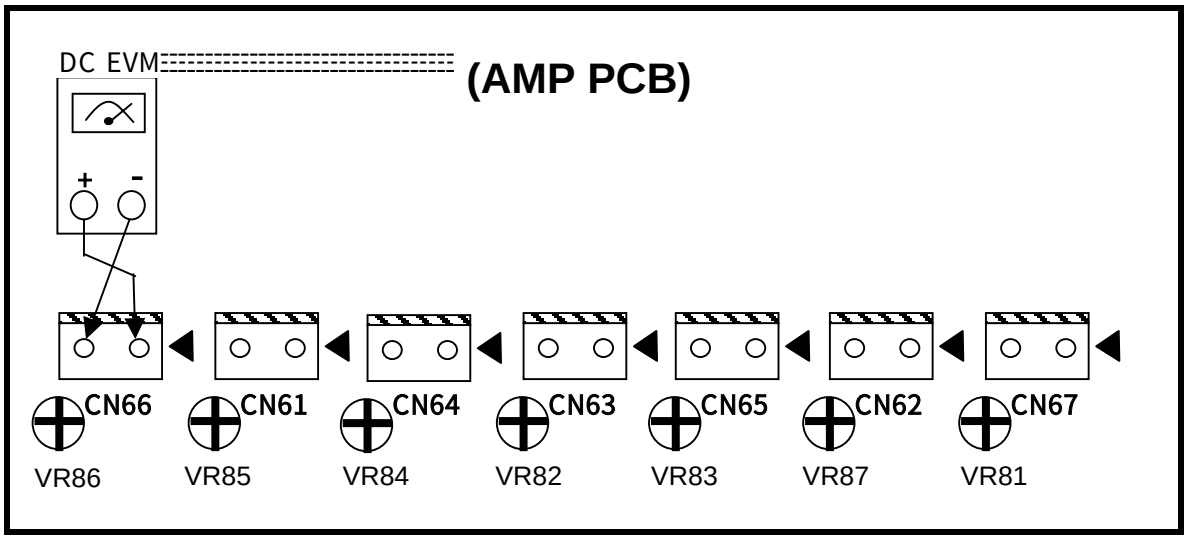
REVISION							
1		2		3		4	
5		6		7			

SCHEMATIC DIAGRAM			SHEET
MODEL	AR CORE		1 / 1
DESIGN	CHECK	APPROVE	DRAWING NO
K.M.S	L.J.H	Y.W.Y	Wiring
11.05.17	11.05.17	11.05.17	1 / 1

AMPLIFIER SECTION BIAS ADJUSTMENT

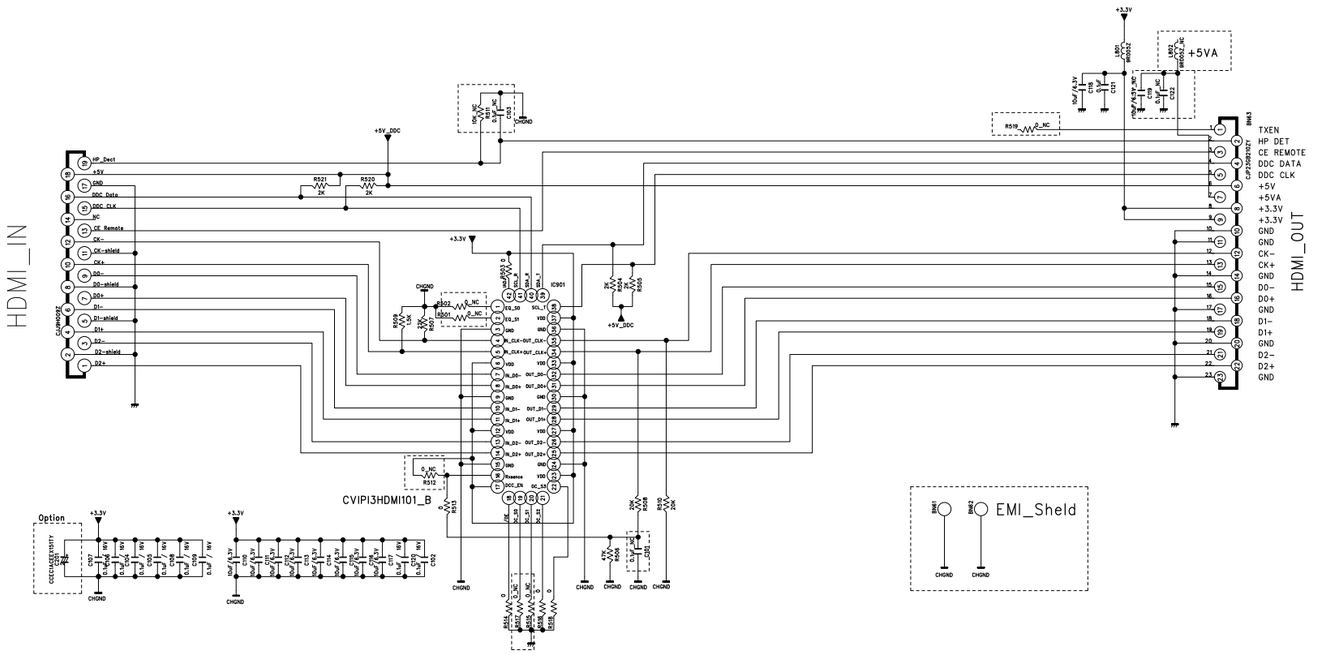
Measurement condition
.No input signal or volume position is minimum.

Standard value
.Ideal current = 48mA (± 5%)
.Ideal DC Voltage = 25.92mV (± 5%)



DC VOLTMETER ; Connect to
CN66(SL),CN61(CEN),CN64(SR),CN63(FL),CN65(SBLmp¨³zvl«·mp¨³z{l¸§·m

NO.	Channel	Adjust for	Adjustment
1	Front Left	25.92mV (± 5%)	CN63
2	Front Right	25.92mV (± 5%)	CN62
3	Center	25.92mV (± 5%)	CN61
4	Surround Left	25.92mV (± 5%)	CN66
5	Surround Right	25.92mV (± 5%)	CN64
6	Surround Back Left	25.92mV (± 5%)	CN65
7	Surround Back Right	25.92mV (± 5%)	CN67



REVISION					
1	2	3	4	5	6	7

SCHEMATIC DIAGRAM — SHEET 1 1

MODEL AVR356x_Front HDMI

DESIGN	CHECK	APPROVE	DRAWING NO
			HDMI
11.05.17	11.05.17	11.05.17	1 1

**IMPORTANT SAFETY NOTICE.
COMPONENTS IDENTIFIED BY▲ MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS.
USE ONLY MANUFACTUREY'S SPECIFIED PARTS.
**THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM, M=1000 KOHM
**THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF=10^6 uF
**THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE

MP

CUP12327*

R2A15218FP
(8CH E.VOLUME
11 INPUT SELECTOR)

ZONE2 VOLUME

8CH DIRECT INPUT B'D

FROM POWER B'D

TO MAIN B'D

TUNER MODULE

ADC INPUT

** IMPORTANT SAFETY NOTICS.
COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM , M=1000 KOHM
** THE UNIT OF CAPACITANCE IS MICROFARAD. (uF)
pF=10^{-6} uF
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE.

M/P

REVISION	2	4	6
1	3	5	7

SCHEMATIC DIAGRAM — SHEET 1/4

MODEL AVR CORE

DESIGN	CHECK	APPROVE	DRAWING NO
			2327SCMZ (INPUT) 1/1
11.05.17	11.05.17	11.05.17	

CUP12327*

Do not use

HDMI SPDIF MODE : DIR MASTER
HDMI I2S MODE : HDMI MASTER
ADC MODE : DSP MASTER
DIR MODE : DIR MASTER

*VHC151 OPTION

SELECT INPUT	A	B	C
OPT1 AV D0	L	L	L
OPT2 SAT D1	H	L	L
D2	L	H	L
AUX F_OPT D3	H	H	L
HDMI_SPDIF D4	L	L	H
ARC_SPDIF D5	H	L	H
VENICE_SPDIF D6	L	H	H
VHC153 D7	H	H	H

*VHC153 OPTION

SELECT INPUT	A	B	G
VCR COAX2 C3	H	H	L
BD COAX1 C2	L	H	L
CD COAX4 C1	H	L	L
PVR COAX3 C0	L	L	L

IC141
CVICS497024CVZ

IC142
CVICS49DV8CCVZ

CRJ10DJ1ROT

CRJ10DJ1R0T

<=> HDMI BOARD

M/P

*OPTION : EMC COUNTERMEASUER

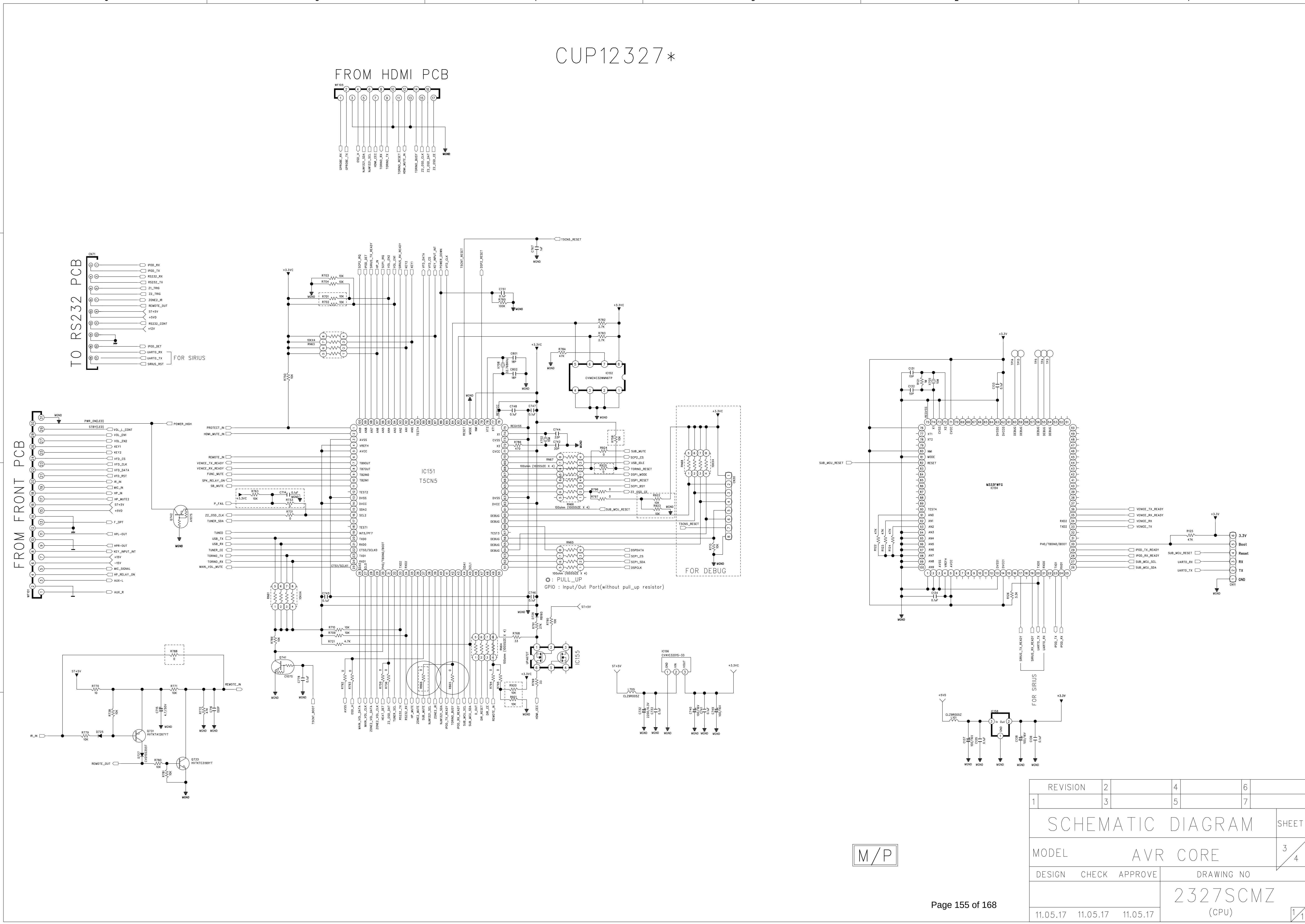
Page 154 of 168

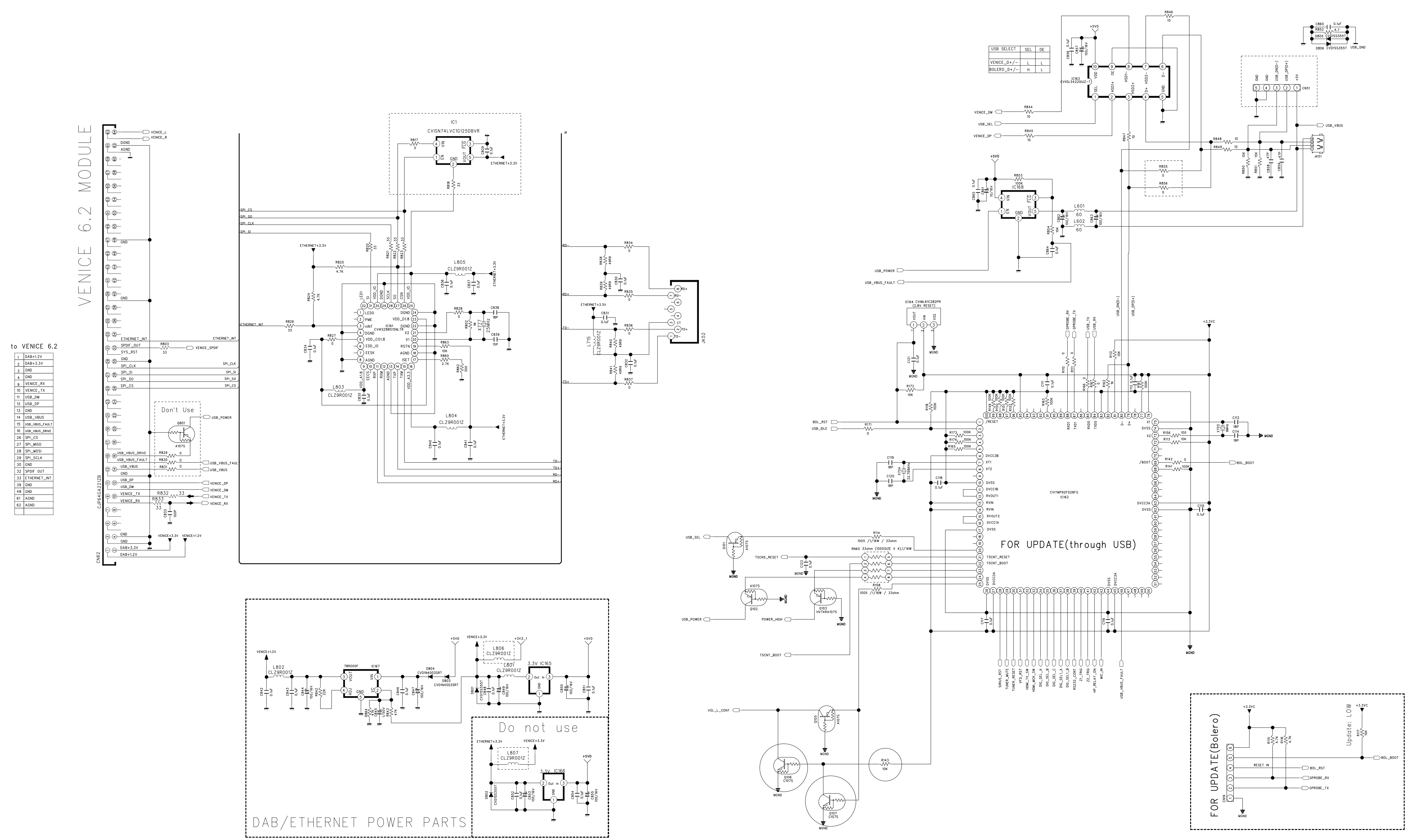
REVISION	2		4		6	
1		3		5		7

SCHEMATIC DIAGRAM — SHEET 2/4

MODEL AVR CORE

DESIGN	CHECK	APPROVE	DRAWING NO
			2327SCMZ (DSP)
11.05.17	11.05.17	11.05.17	1/1


CUP12327*
FROM HDMI PCB
TO RS232 PCB
FROM FRONT PCB
FOR SIRIUS
FOR DEBUG
IC151
T5CN5
IC152
CVM24C32WMN6TP
M333FWFG
IC154
IC155
○ : PULL_UP
GPIO : Input/Out Port(without pull_up resistor)
REVISION
SCHEMATIC DIAGRAM
SHEET
MODEL
AVR CORE
3/4
DESIGN
CHECK
APPROVE
DRAWING NO
2327SCMZ
(CPU)
11.05.17
11.05.17
11.05.17
M/P



REVISION	2	4	6
1	3	5	7

SCHEMATIC DIAGRAM				SHEET
MODEL	AVR CORE			4 / 4
DESIGN	CHECK	APPROVE	DRAWING NO	
C.B.LEE	W.Y.YANG	G.S.WEY	2327SCMZ	
11.05.17	11.05.17	11.05.17	(VENICE_USB)	1 / 1

M/P

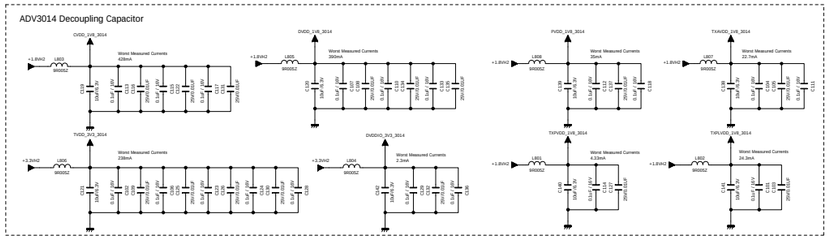
CUP12328Z

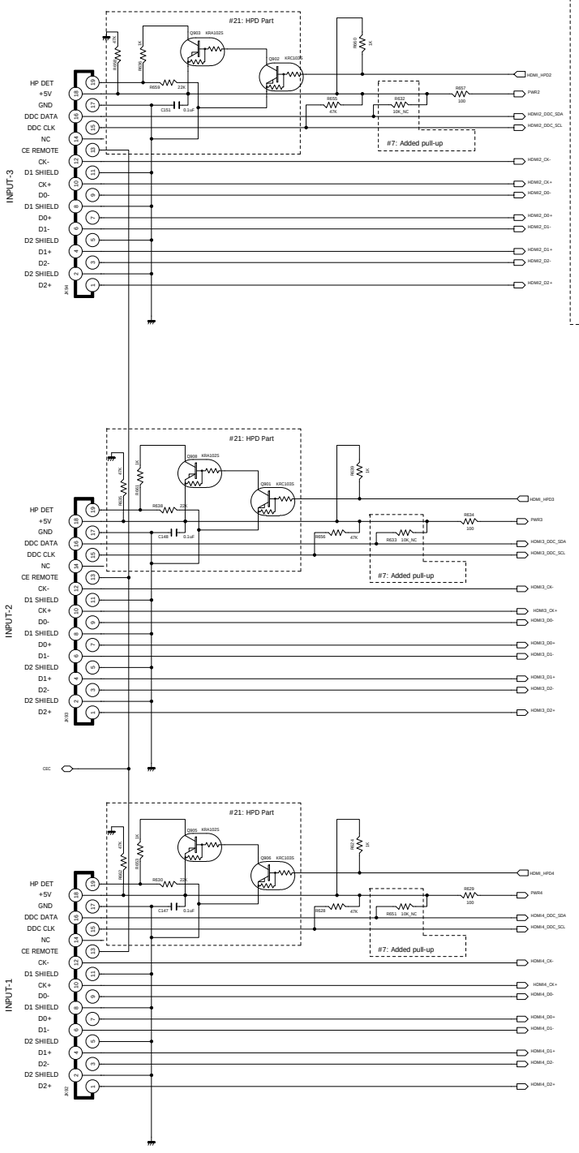
ADV3014 Decoupling Capacitor

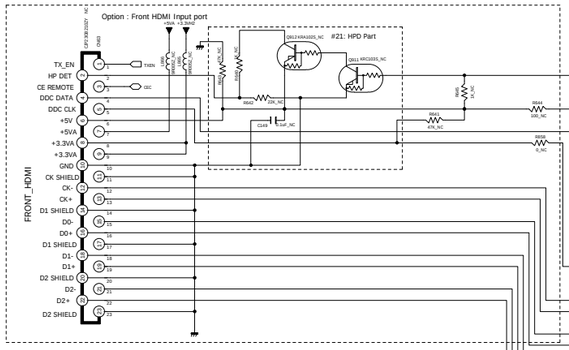
ADV7844 Worst Measured Currents

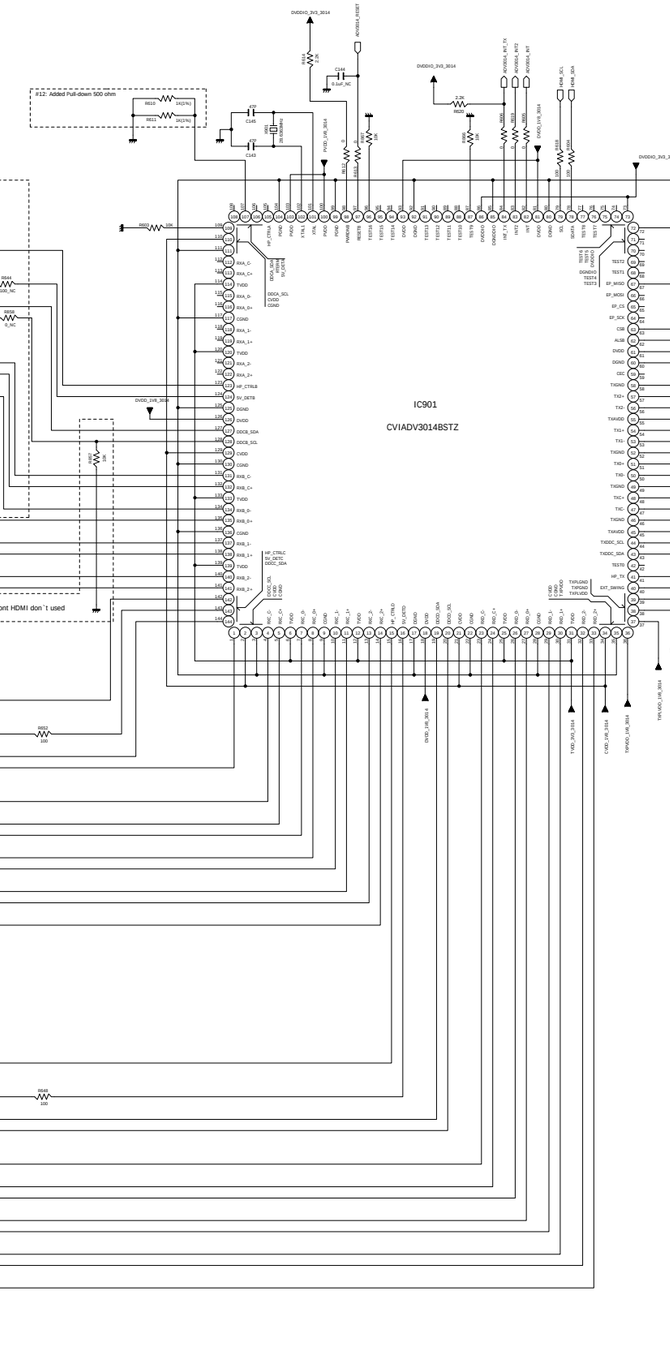
1.8V Total : 904.33mA

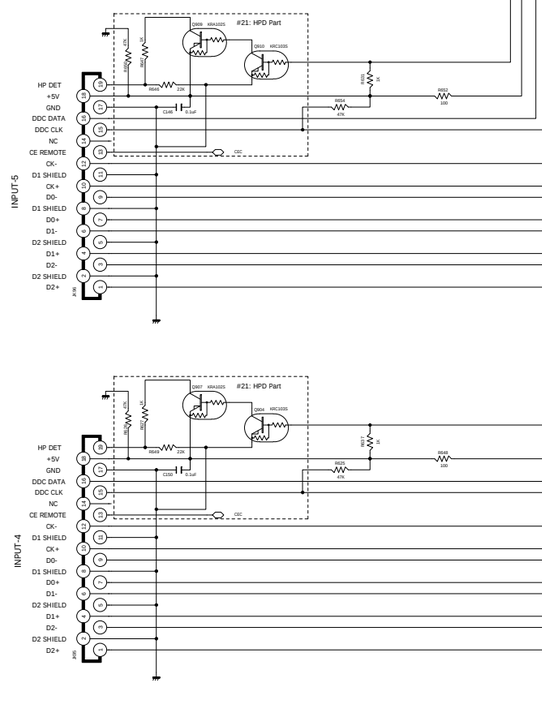
3.3V Total : 240.3mA







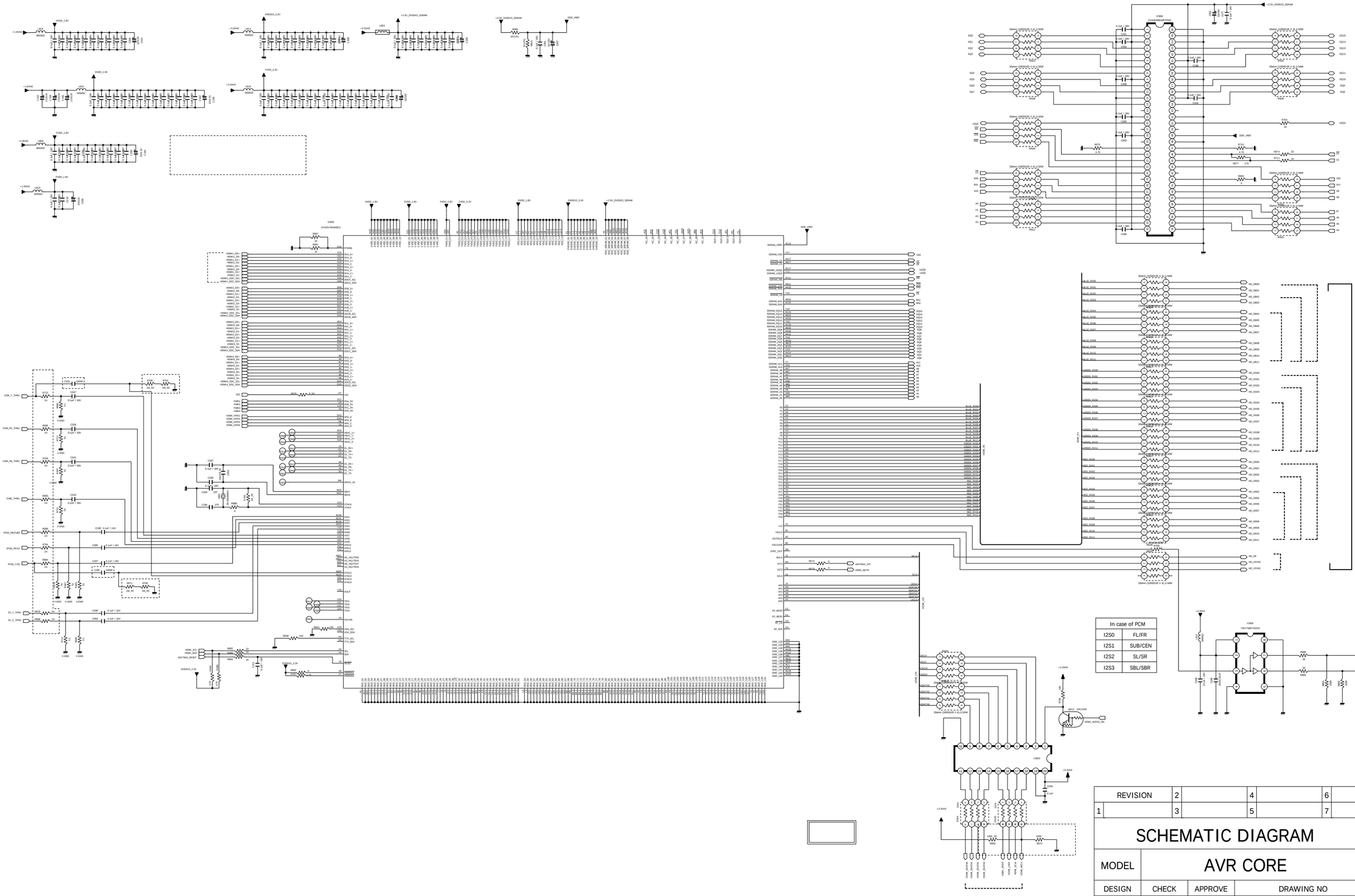




REVISION	2		4		6	
1		3		5		7	

SCHEMATIC DIAGRAM			SHEET
MODEL	AVR CORE		1 / 4
DESIGN	CHECK	APPROVE	DRAWING NO
S.K	W.Y.YANG	G.S.WEY	HDMI INPUT
11.05.17	11.05.17	11.05.17	1 / 1

6	5	4	3	2



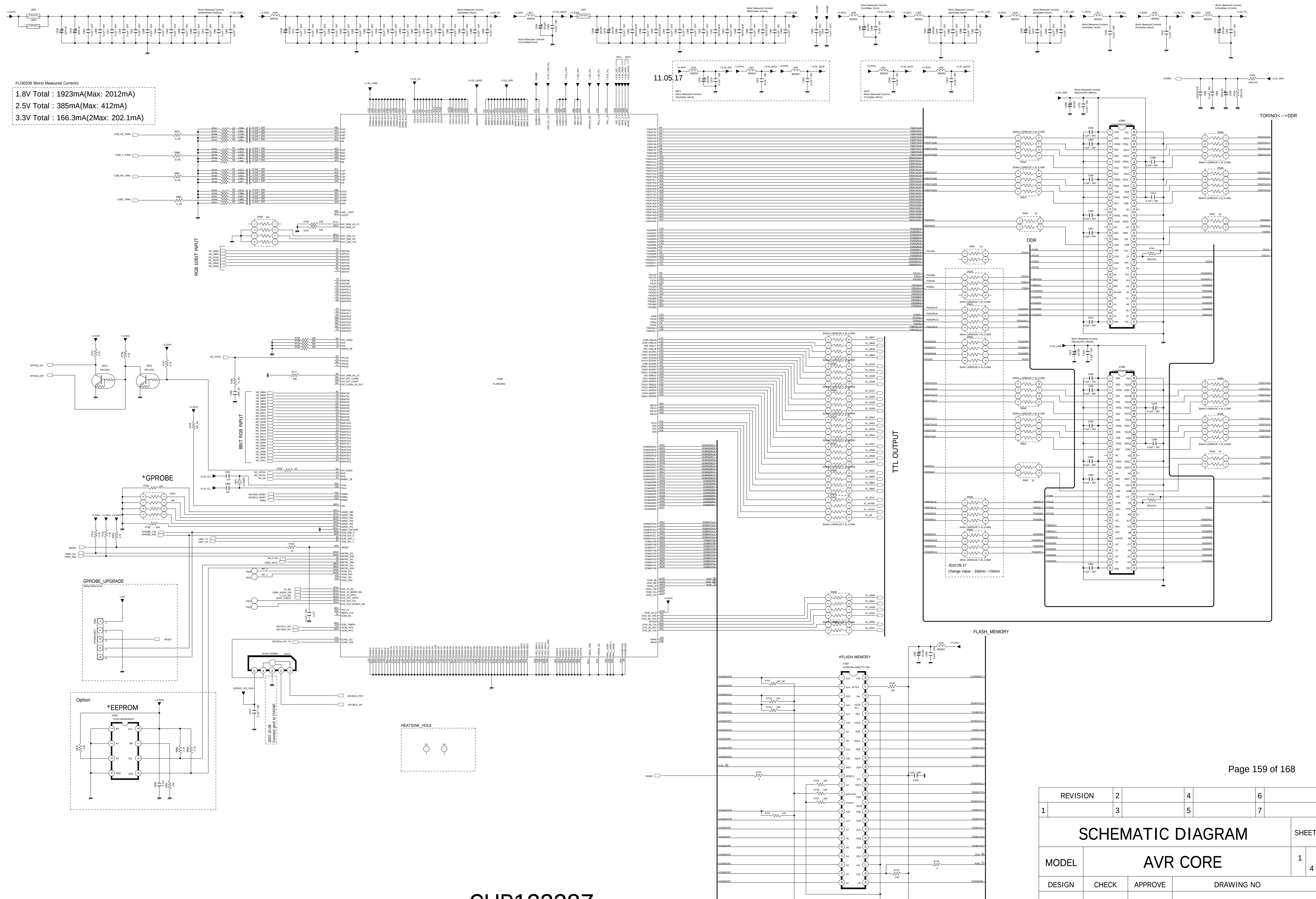
REVISION	2		4		6	
1		3		5		7	

SCHEMATIC DIAGRAM

SHEET 1 4

MODEL	AVR CORE

DESIGN	CHECK	APPROVE	DRAWING NO
11.05.17			1 1



CUP12328Z

REVISION	2	4	6
1	3	5	7

SCHEMATIC DIAGRAM			SHEET 1 4
MODEL	AVR CORE		
DESIGN	CHECK	APPROVE	DRAWING NO
S.K	W.Y.YANG	G.S.WEY	SCALER
11.05.17	11.05.17	11.05.17	1 1

HDMI By Pass Mode Interface

INPUT		OUTPUT
OE1	OE2	

Scaling Mode Interface

HD(30MHZ) MODE : HIGH
SD(13.5MHZ) MODE : LOW

CLOCK DOUBLER
(13.5M*2=27M)

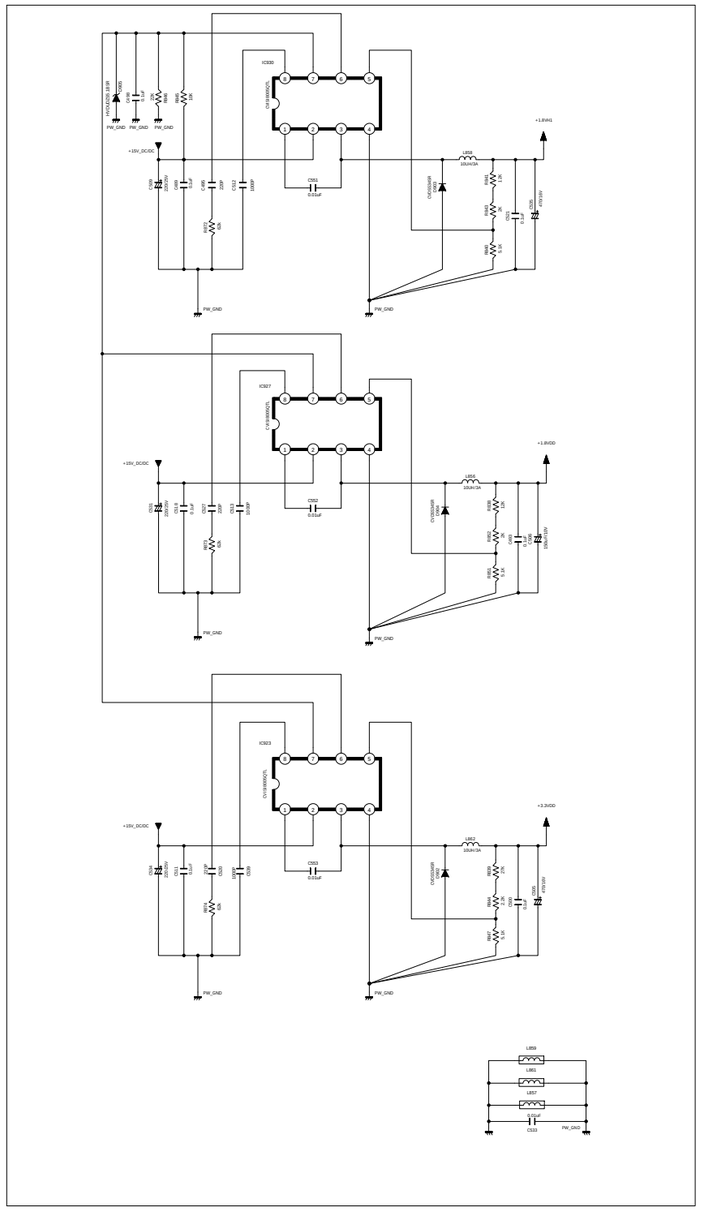
	CLK1
S1:HIGH	ICLK
S1:LOW	2*ICLK

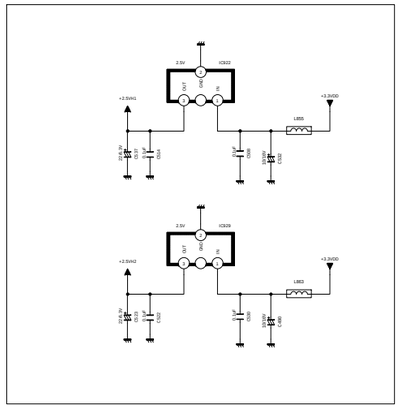
REVISION	2		4		6	
1		3		5		7	

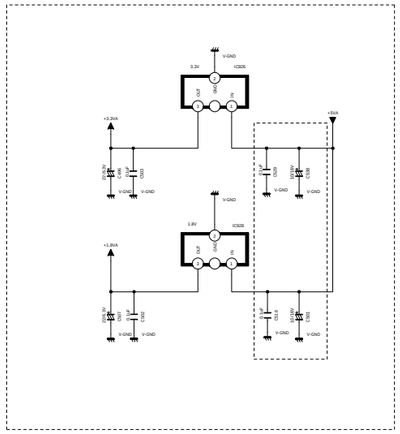
SCHEMATIC DIAGRAM — SHEET

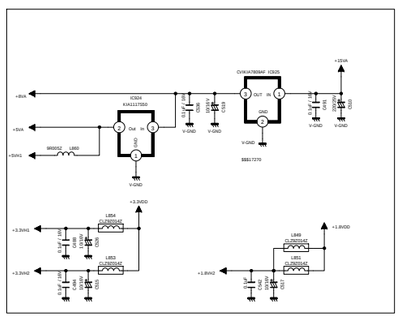
MODEL: AVR CORE — 1 / 4

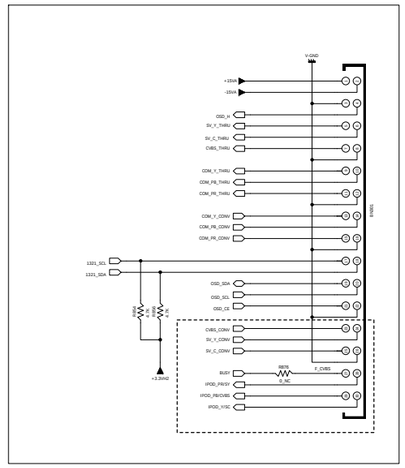
DESIGN	CHECK	APPROVE	DRAWING NO
11.05.17			1 / 1

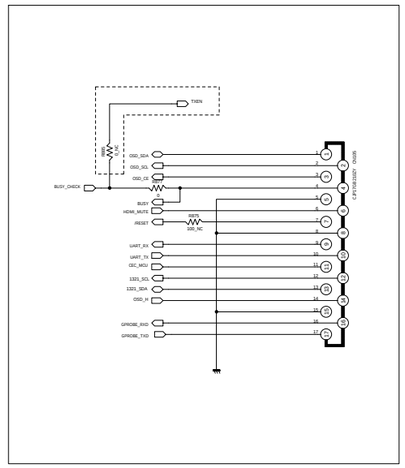


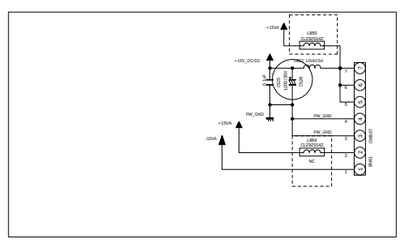












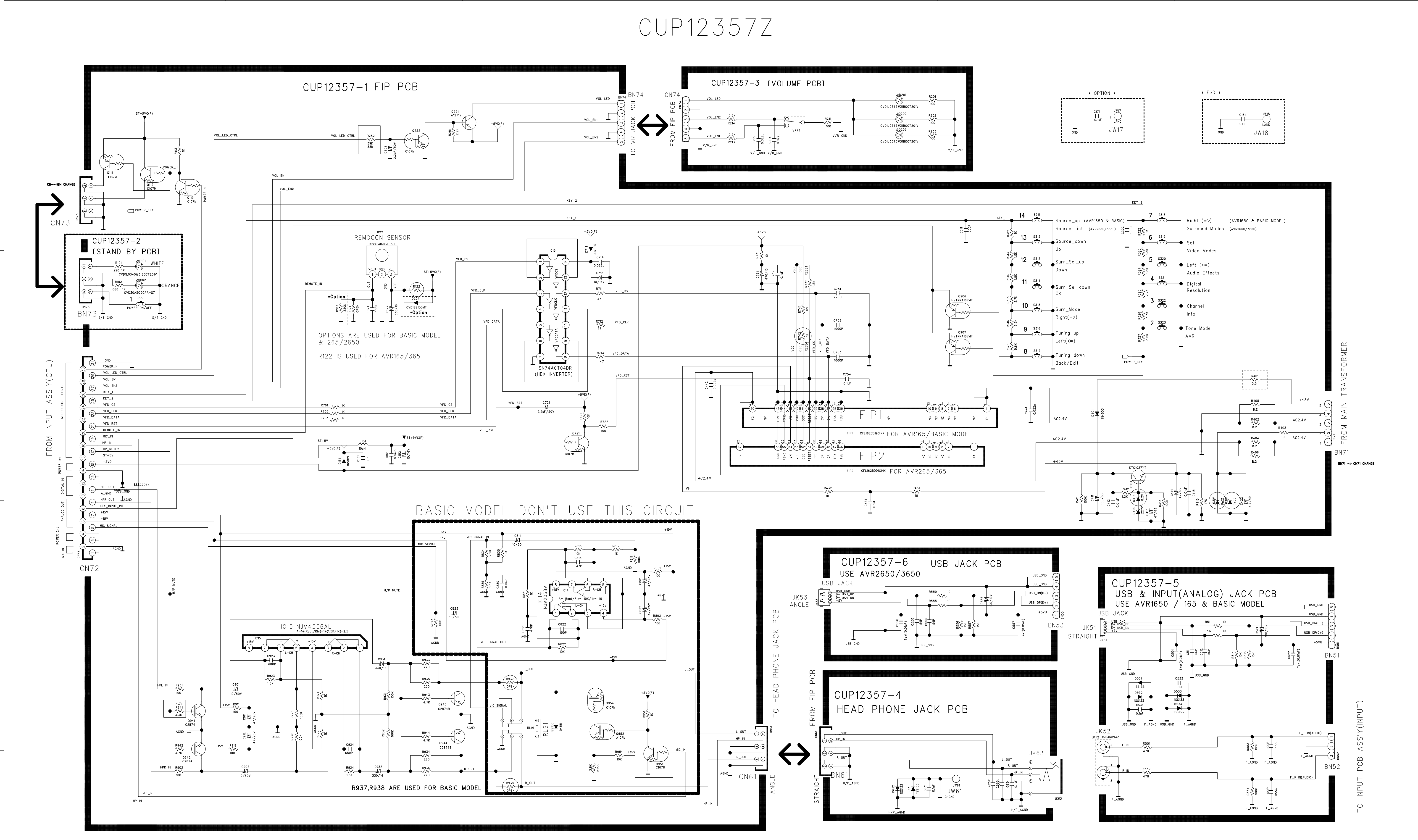
REVISION	2		4		6	
1		3		5		7	

SCHEMATIC DIAGRAM

SHEET

MODEL	AVR CORE	1	4

DESIGN	CHECK	APPROVE	DRAWING NO
			POWER&CONNECTOR 1 1
11.05.17			


CUP12357Z
CUP12357-1 FIP PCB
CUP12357-3 [VOLUME PCB]
CUP12357-2 [STAND BY PCB]
REMOCON SENSOR
OPTIONS ARE USED FOR BASIC MODEL & 265/2650
R122 IS USED FOR AVR165/365
SN74ACT04DR (HEX INVERTER)
FIP1 FOR AVR165/BASIC MODEL
FIP2 FOR AVR265/365
FROM MAIN TRANSFORMER
FROM INPUT ASS'Y(CPU)
TO VR JACK PCB
FROM FIP PCB
BASIC MODEL DON'T USE THIS CIRCUIT
IC15 NJM4556AL
R937,R938 ARE USED FOR BASIC MODEL
TO HEAD PHONE JACK PCB
CUP12357-6 USB JACK PCB
USE AVR2650/3650
CUP12357-5 USB & INPUT(ANALOG) JACK PCB
USE AVR1650 / 165 & BASIC MODEL
CUP12357-4 HEAD PHONE JACK PCB
TO INPUT PCB ASS'Y(INPUT)
CN73
BN73
CN72
CN74
BN74
BN71
CN61
BN61
BN53
BN51
BN52
MP

REVISION	2		4		6
1		3		5	7
SCHEMATIC DIAGRAM					SHEET
MODEL	AVRX65 SERIES				1/7
DESIGN	CHECK	APPROVED	DRAWING NO		
J.I.H	K.M.S	Y.Y.W	2357SCMZ (FRONT)		1/1
11.05.17	11.05.17	11.05.17			

VIDEO MUX PART

* DEFINITION OF I2C REGISTER (NJW1321)

I2C BUS FORMAT

MSB	LSB	MSB	LSB	MSB	LSB		
S(1BIT)	SLAVE ADDRESS(8BIT)	A(1BIT)	DATA(8BIT)	A(1BIT)	DATA(8BIT)	A(1BIT)	P(1BIT)

SLAVE ADDRESS

MSB	Slave Address(6BIT)					MSB	Hex
1	0	0	0	0	0	ADR(1BIT) R/NOT W(1BIT)	-

CONTROL REGISTER TABLE

<WRITE MODE>

NO.	BIT							
	D7	D6	D5	D4	D3	D2	D1	D0
DATA 1	PS1	PS2			OUT1		OUT2	
DATA 2	Aux0		AUX1		Aux2		AUX3	

<READ MODE>

NO.	BIT							
	D7	D6	D5	D4	D3	D2	D1	D0
DATA	PORT0		PORT1		PORT2		PORT3	

S : Starting Term

A : Acknowledge Bit

P : Ending Term

R/NOT W : Set the Write Mode or Read Mode.

ADR : Set the Slave Address by " ADR" terminal.

R/NOT W = 0 : WRITE MODE, ADR = 0/1 ; ADR=0 Hex 64(h), ADR=1 Hex 66(h)

R/NOT W = 0 : READ MODE, ADR = 0/1 ; ADR=0 Hex 65(h), ADR=1 Hex 67(h)

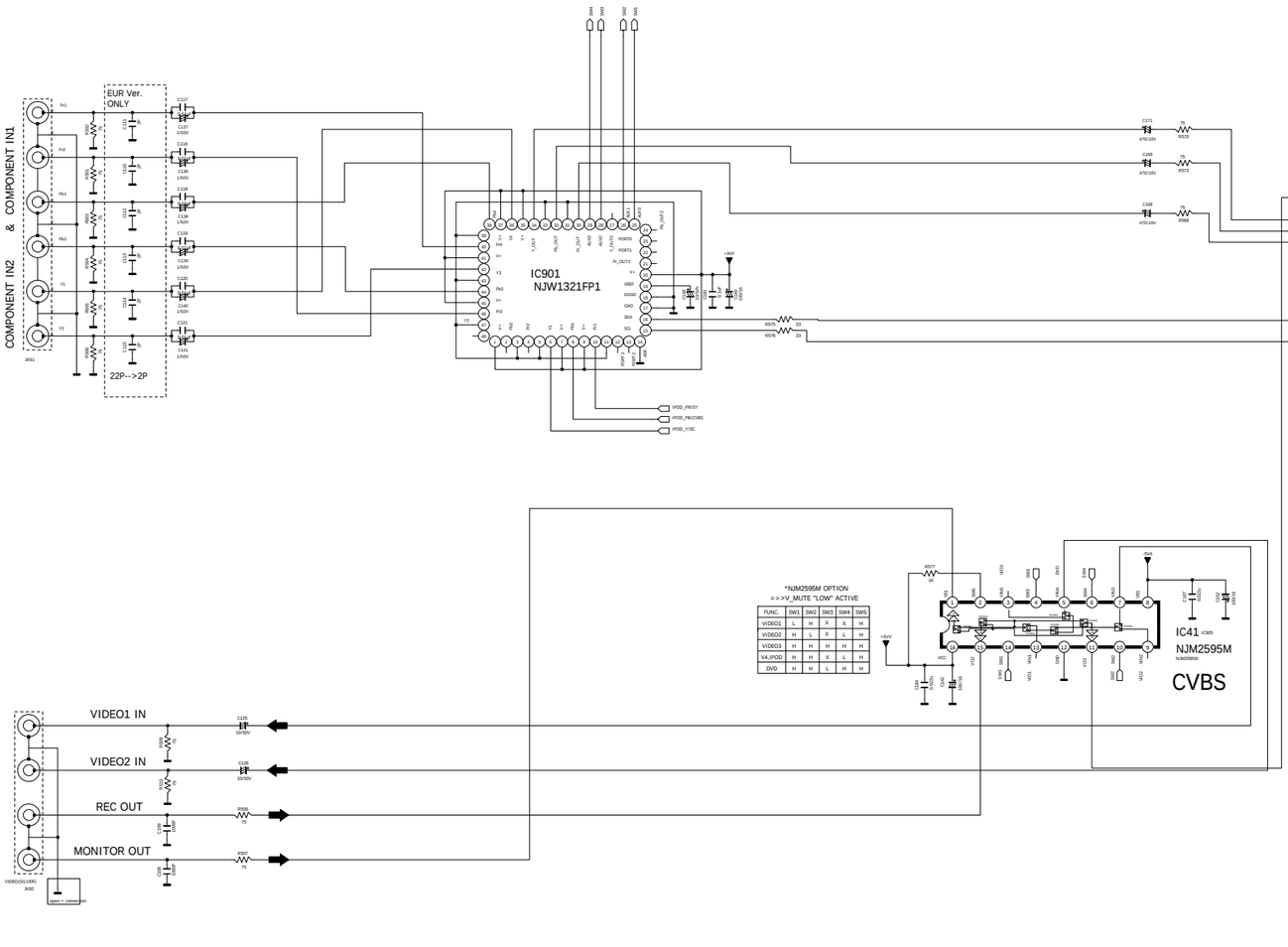
PS : POWER SAVE

=> PS = 1 ; POWER SAVE ON (MUTE), PS = 0 ; POWER SAVE OFF (OUT ON)

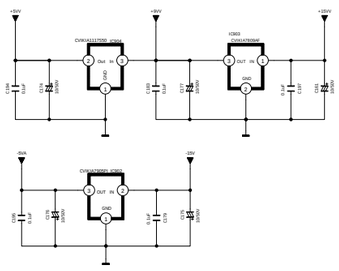
OUT : OUTPUT

AUX : AUXILIARY (CONTROL SIGNAL OUTPUT)

PORT : INPUT



FUNC.	SW1	SW2	SW3	SW4	SW5
VIDEO1	L	H	X	X	H
VIDEO2	H	L	X	L	H
VIDEO3	H	H	H	H	H
V4_IPOD	H	H	X	L	H
DVD	H	H	L	H	H

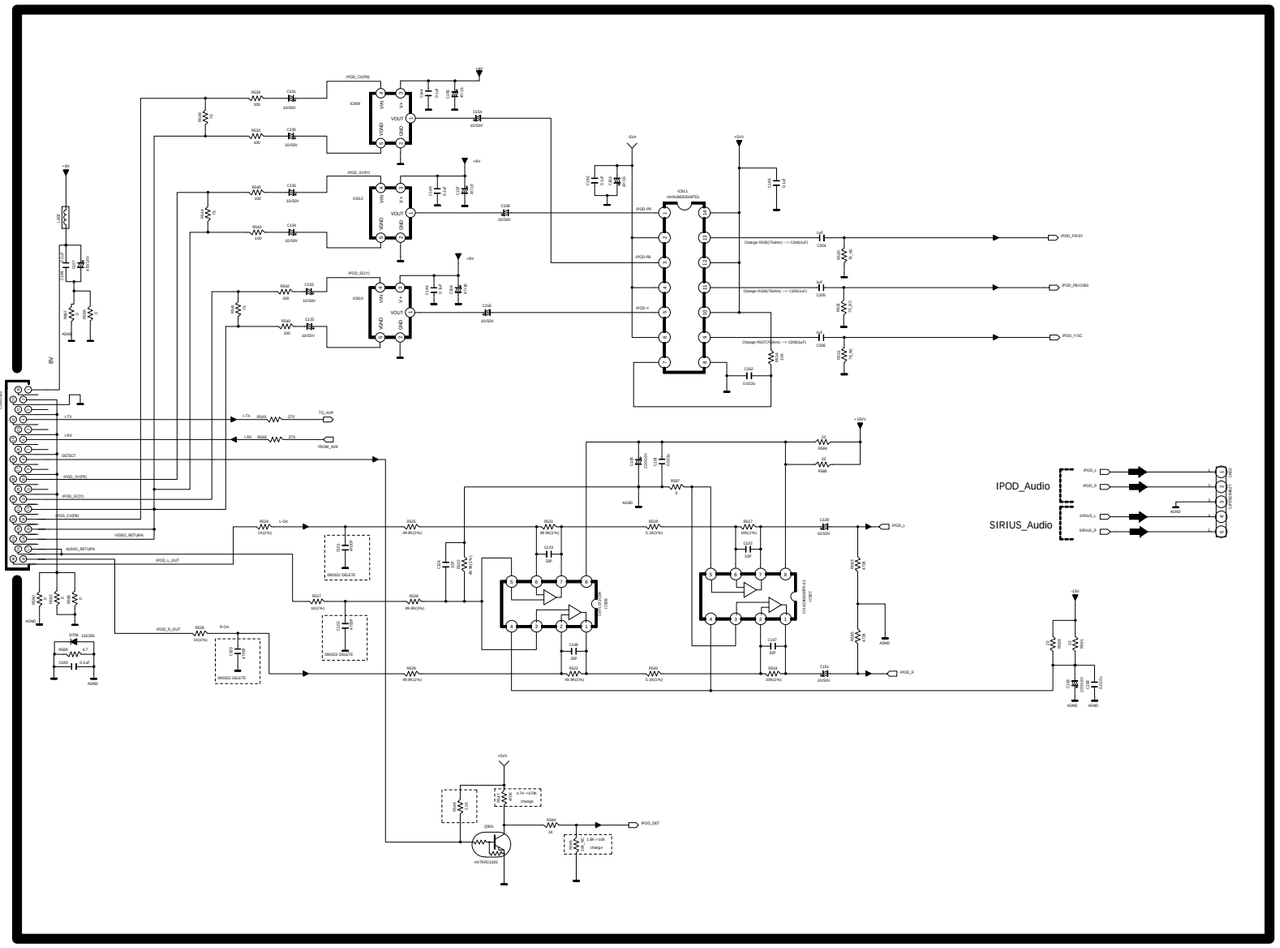


REVISION	2		4		6	
1		3		5		7	

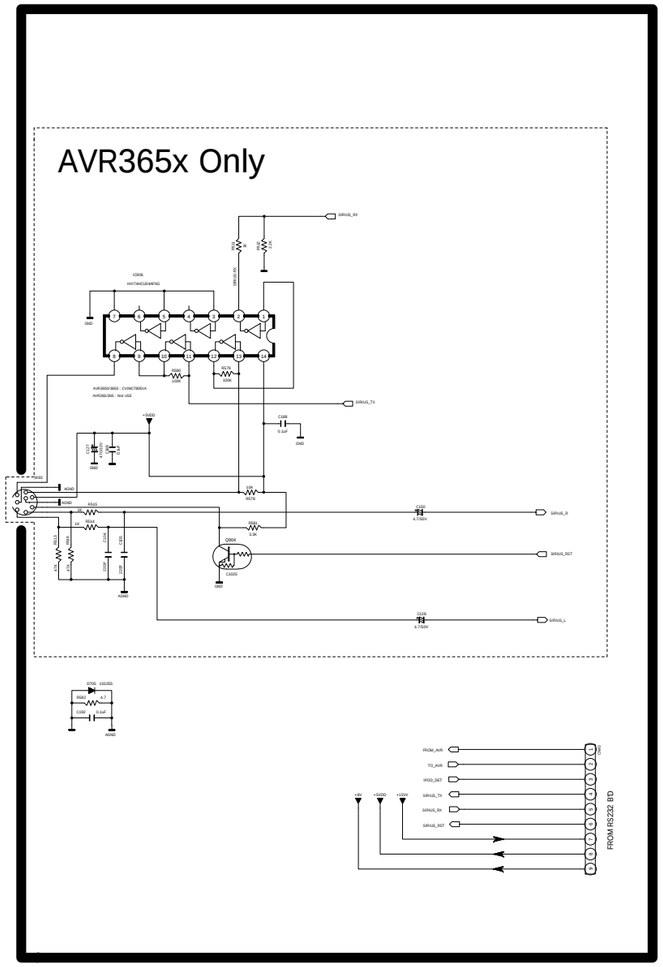
SCHEMATIC DIAGRAM			SHEET
MODEL	AVR CORE		1 / 3
DESIGN	CHECK	APPROVE	DRAWING NO
S.K	W.Y.YANG	G.S.WEY	12361SEMZ (VIDEO) 1 / 1
11.05.17	11.05.17	11.05.17	

S.K

I-POD PART

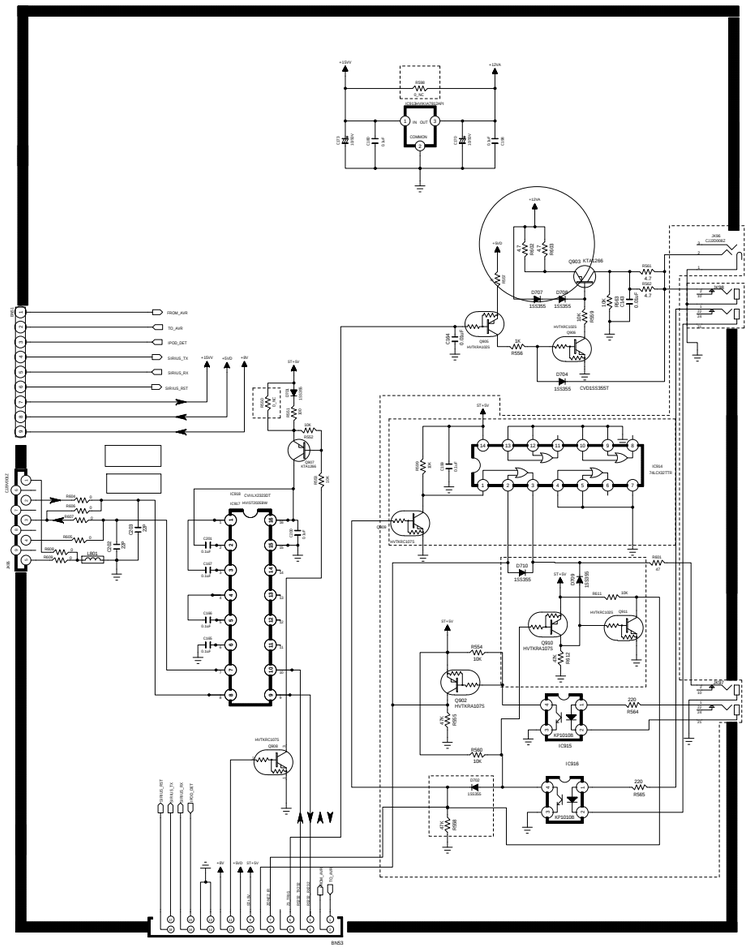


SIRIUS PART



REVISION	2		4		6		
1		3		5		7	

SCHEMATIC DIAGRAM			SHEET
MODEL	ARV CORE		2 / 3
DESIGN	CHECK	APPROVE	DRAWING NO
S.K	W.Y.YANG	G.S.WEY	12361SEMZ
11.05.17	11.05.17	11.05.17	(IPOD&SIRIUS) 1 / 1



REVISION	2		4		6	
1		3		5		7	

SCHEMATIC DIAGRAM			SHEET
MODEL	ARV CORE		3 / 3
DESIGN	CHECK	APPROVE	DRAWING NO
			(RS232) 1 / 1

AVR265/365 AMP Schematic Diagram

SR-CH

BL-CH

SL-CH

BR-CH

C-CH

FR-CH

FL-CH

ONLY FAN USING

FOR USING FAN

GAIN	R561, R562, R563, R564, R565, R850, R851
AVR265/2650	1.3K
AVR365/3650	1.3K

C915/C916		
AVR2650 / 265 : 10000uF/63V	CCET63VKL5103NK
AVR3650 / 365 : 12000uF/63V	CCET63VKL5123NK

JW90,JW91 : ALL MODELS

FROM INPUT B'D

TO TRANS B'D

FROM REGULATOR B'D

FROM TRANS

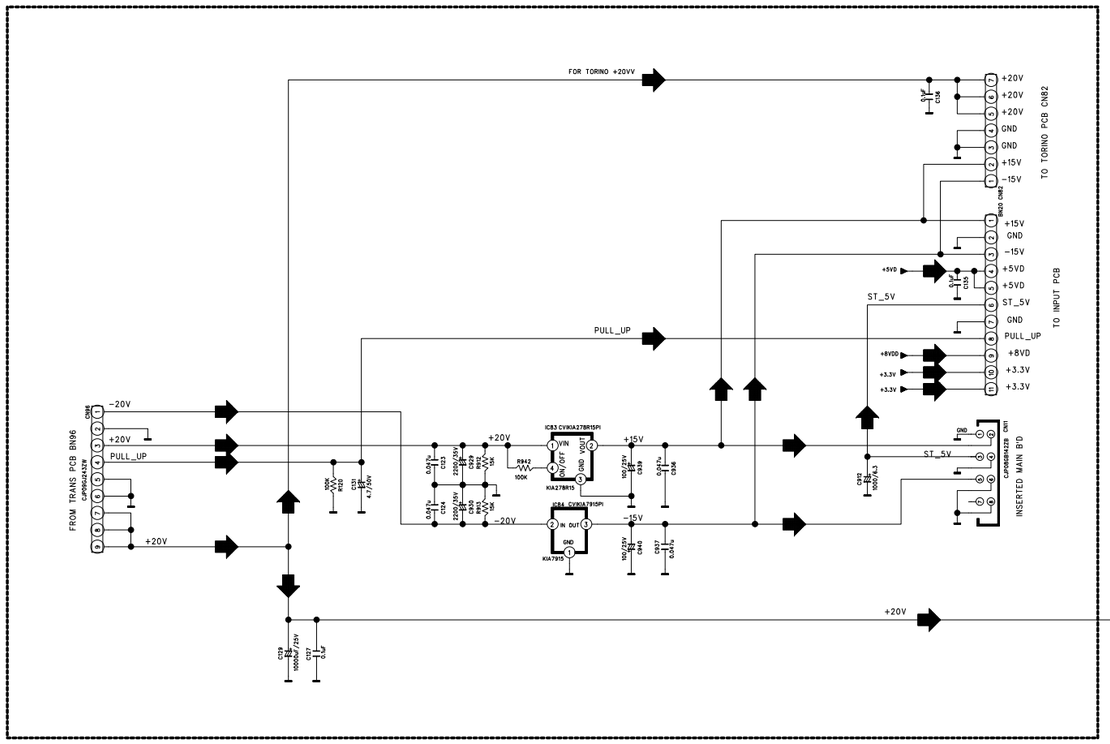
AC IN

MOMS S/W

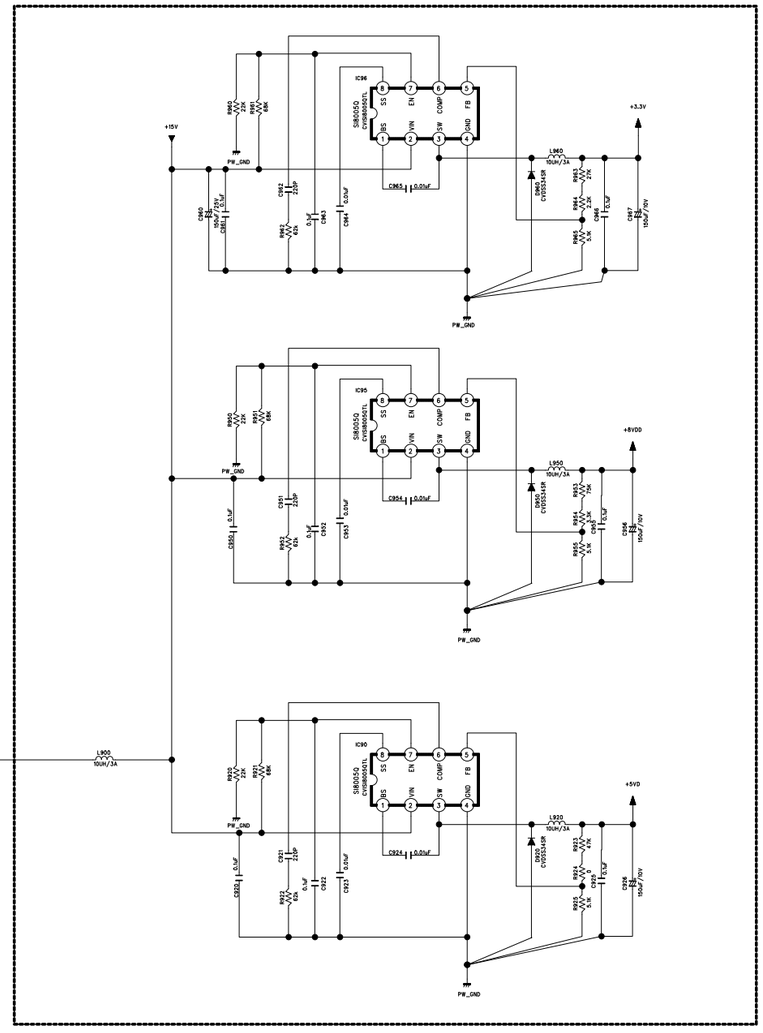
** IMPORTNAT SAFETY NOTICE.
INPORTANT FOR SAFTY WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURE'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM, M=1000 KOHM.
** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF = 10^-6 uF
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WIHE THE IMPROVEMENT OF PERFORMANCE

REVISION	1	2	3	SHEET
SCHEMATIC DIAGRAM				
MODEL AVR CORE				2 / 7
DESIGN	CHECK	APPROVE	DRAWING NO	
\			12364SCMZ (AMP)	1/1
2011.05.17	2011.05.17	2011.05.17		

< Analog Regulator Part >



< DC-DC Regulator Part >



MP

REVISION	2	4	6	
1	3	5	7	

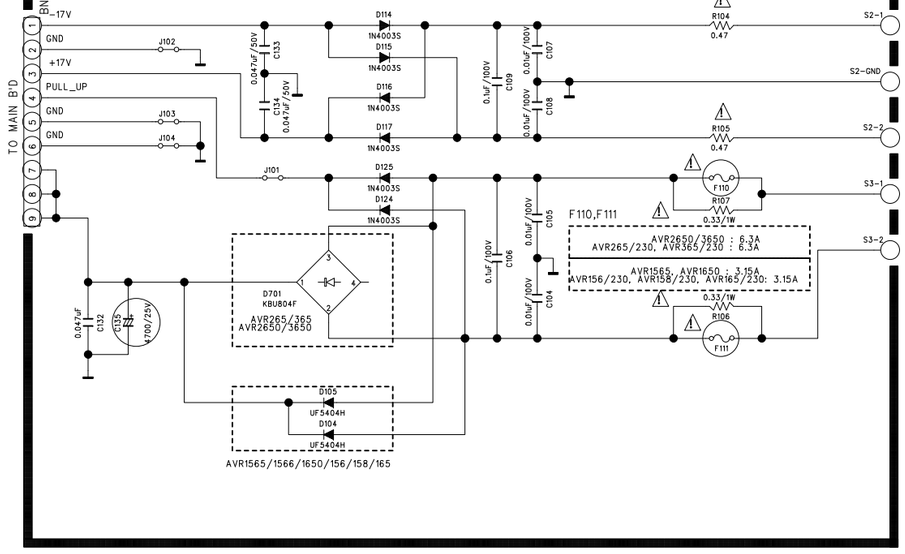
SCHEMATIC DIAGRAM			SHEET
MODEL	AVR 2650/3650		1/1
DESIGN	CHECK	APPROVE	DRAWING NO
K.B.C	Y.Y.W	K.S.W	CUP12365Z
2011.05.17	2011.05.17	2011.05.17	(REG& DC-DC) 1/1

6 5 4 3 2 1

D C B A

< TRANS PCB _ S2,S3>

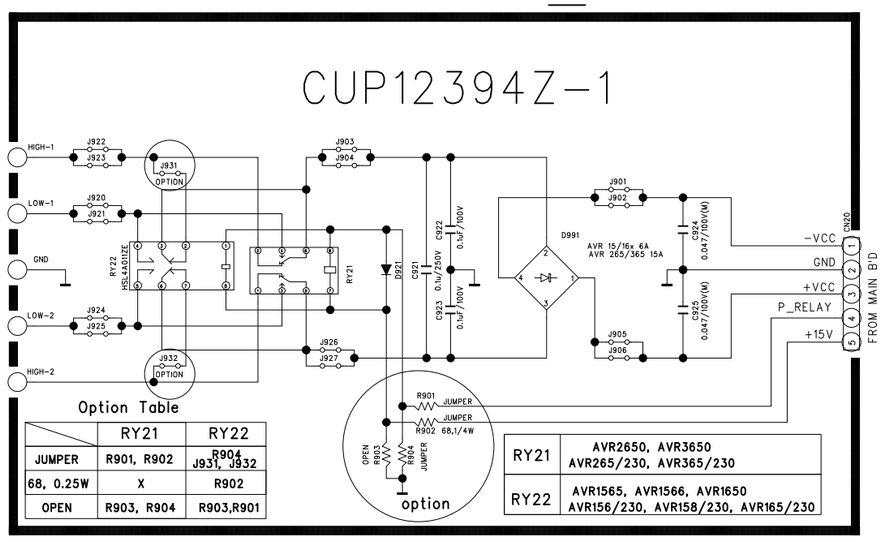
CUP12394Z-2



< Transformer >

< TRANS PCB _ S1 >

CUP12394Z-1



Option Table

	RY21	RY22
JUMPER	R901, R902	R904 J931, J932
68, 0.25W	X	R902
OPEN	R903, R904	R903,R901

RY21	AVR2650, AVR3650 AVR265/230, AVR365/230
RY22	AVR1565, AVR1566, AVR1650 AVR156/230, AVR158/230, AVR165/230

MP

REVISION	2	4	6
1	3	5	7

SCHEMATIC DIAGRAM			SHEET
MODEL	AVR 165/265/365		1/3
DESIGN	CHECK	APPROVE	DRAWING NO
K.B.C	K.M.S	Y.K.Y	CUP12394Z (POWER) 1/1
11.05.17	11.05.17	11.05.17	