

# SB 30/230

Active Soundbar with wireless subwoofer



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# SB 30

Multichannel active soundbar speaker system

Owner's Manual

ENGLISH



**harman / kardon**<sup>®</sup>  
by HARMAN

# SB 30

## Important Safety Instructions

### Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus.  
When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. Do not expose batteries to excessive heat such as sunshine, fire or the like.



 <p style="font-size: small;">THE LIGHTNING FLASH WITH AN ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.</p>	<p><b>CAUTION</b></p> <p style="font-size: x-small;">RISK OF ELECTRIC SHOCK DO NOT OPEN</p> <p style="font-size: x-small;">WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.</p>	 <p style="font-size: x-small;">THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE PRODUCT.</p>
SEE MARKING ON BACK OF PRODUCT.		

### FCC Regulations (USA only)

#### FCC Information For Users

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Radio and Television Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and then on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment to a different outlet so that the equipment and receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

**NOTE:** Changes or modifications not expressly approved by Harman Kardon could void the user's authority to operate the equipment.

### IC Statement and Warning (Canada only)

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

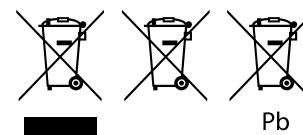
#### For Canadian Model

This Class B digital apparatus complies with Canadian ICES-003.

#### Modèle pour les Canadien

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### Instructions for Users on Removal and Disposal of Used Batteries. Specifications of Included Battery Types.



These symbols shown on the product, the packaging or in the manual or separate information sheet mean that the product itself, as well as the batteries included or built into the product, should never be thrown away with general household waste. Take them to applicable collection points, where proper treatment, recycling and recovery takes place, in accordance with national or local legislation, or European Directives 2002/96/EC and 2006/66/EC.

Correct handling of the product and batteries to be disposed helps saving resources and prevents possible negative effects on the environment or human health.

The batteries included with your equipment may be alkaline, carbon zinc/manganese or lithium (button cells) type. All types should be disposed of according to the above instructions.

To remove the batteries from your equipment or remote control, reverse the procedure described for inserting batteries in the owner's manual.

For products with a built-in battery that lasts for the lifetime of the product, removal may not be possible for the user. In this case, recycling or recovery centers handle the dismantling of the product and the removal of the battery. If, for any reason, it becomes necessary to replace such a battery, this procedure must be performed by authorized service centers.

# SB 30

## Introduction, Description and Features, and Included Items

### Introduction

Thank you for purchasing the Harman Kardon SB 30 multichannel active soundbar speaker system, with which you're about to begin many years of listening enjoyment. The SB 30 has been custom-designed to create an extraordinarily realistic cinema experience in your own living room.

While extremely sophisticated electronics and state-of-the-art speaker components are hard at work within the SB 30, connecting, setting up and operating the system is simple.

To obtain maximum enjoyment from your new speaker system, we urge you to take a few minutes to read through this manual. It will help ensure that the connections you make are correct. In addition, a few minutes spent learning the functions of the various controls will enable you to take advantage of all the power and refinement the SB 30 is able to deliver.

If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer, or visit our Web site at [www.harmankardon.com](http://www.harmankardon.com).

### Description and Features

The SB 30 is a complete home theater speaker system that includes:

- A video-shielded soundbar speaker (the SB 30 CNTR) that features 13 speaker elements, 11 amplifier channels and a triple-core digital signal processor.
- An 8-inch (200mm), 100-watt wireless powered subwoofer (the SB 30 SUB).
- An IR remote control.
- Wall-mount brackets for the soundbar.
- An optical digital audio cable for connecting the system directly to your cable/satellite tuner or disc player.
- A 6-1/2-foot (2m) stereo audio cable for connecting the system directly to your TV's audio output.
- A 3-foot (1.8m) AC power cord for the SB 30 CNTR soundbar.

The SB 30 CNTR soundbar contains six 2-inch woofers and seven 1-inch tweeters, powered by four 40-watt amplifiers and seven 10-watt amplifiers. It features a powerful triple-core DSP (digital signal processor) with two HARMAN-exclusive surround modes (Virtual and HARMAN Wave – patent pending) that utilize different combinations of the soundbar's 13 transducers and 11 amplifier channels to create an astonishingly realistic surround-sound experience in any size room and for listeners at any position in the room, without needing any extra speakers or wires.

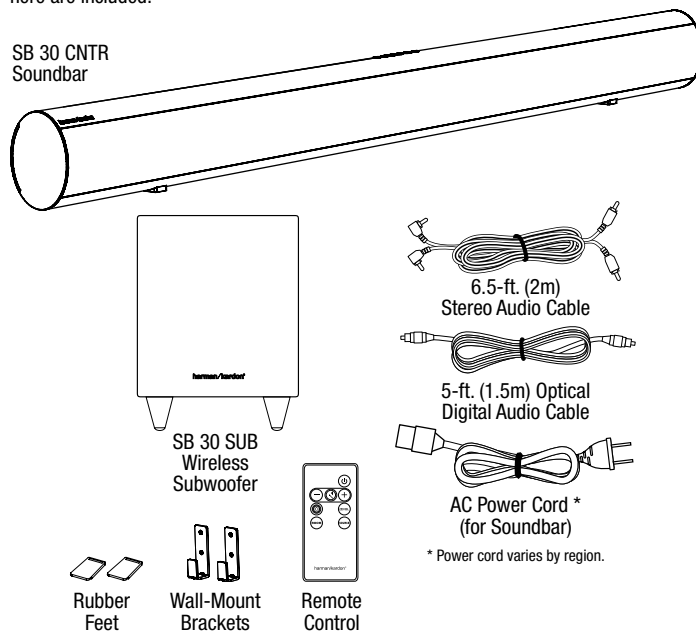
You can set the soundbar on a table in front of your TV, or, if you have a wall-mounted flat-panel TV, you can use the supplied brackets to mount the soundbar on the wall along with your flat-panel TV.

The SB 30 SUB subwoofer receives its signal from the SB 30 CNTR soundbar via wireless technology, so you can place it anywhere in your room without having to run any wires between it and the soundbar. Its 8-inch (200mm) woofer and built-in 100-watt amplifier deliver the impact and excitement from your favorite movies and video games. Other conveniences include a volume control, a phase switch for fine-tuning bass performance to suit your listening environment, and an efficient switching system that senses the presence of an audio signal and automatically switches the subwoofer on.

Sidney Harman and Bernard Kardon invented the high-fidelity receiver more than 50 years ago. With state-of-the-art features and time-honored circuit designs, the SB 30 system will turn your flat-panel TV into a fun and exciting home theater.

### Included Items

Carefully unpack your soundbar speaker system and confirm that all the items shown here are included.



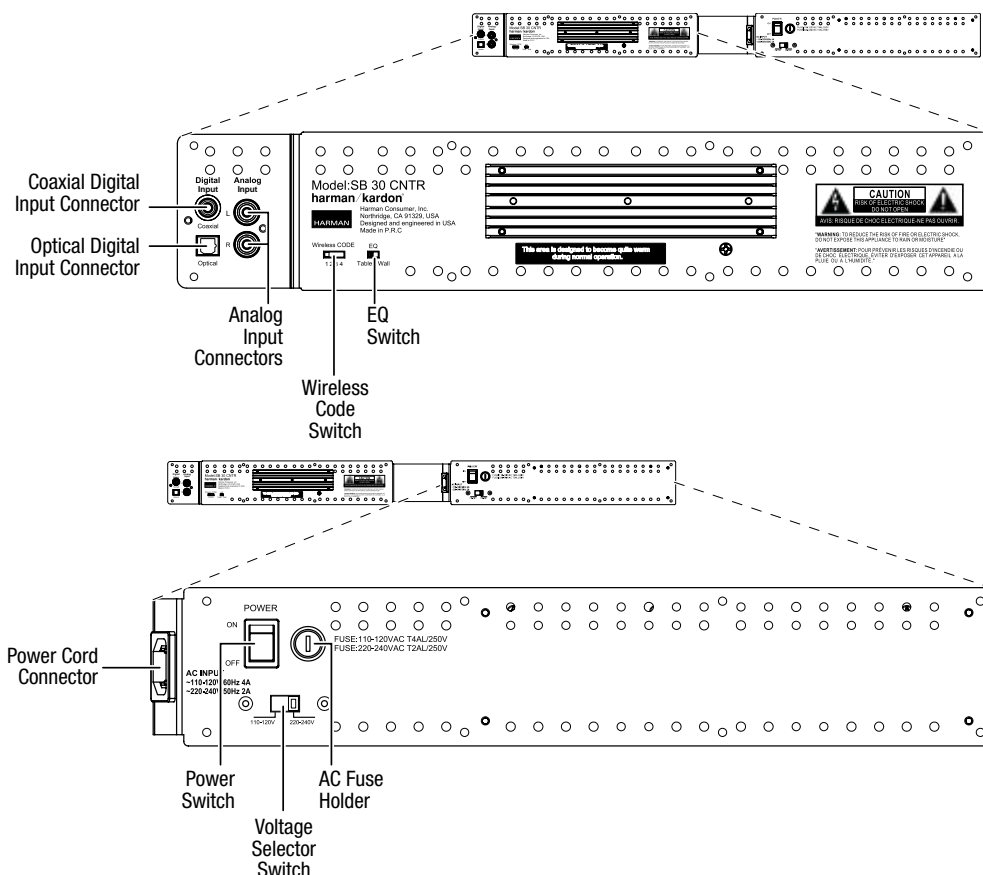
**IMPORTANT:** If anything is missing, or if any part of your SB 30 system fails to operate properly, contact your dealer immediately.

## SB 30

## Connections and Controls

## Connections and Controls

## Soundbar Rear-Panel Controls and Connectors



**Coaxial Digital Input connector:** If your TV, disc player or cable/satellite tuner has a coaxial digital output, use a coaxial digital audio cable (not supplied) to connect it here.

**Optical Digital Input connector:** If your TV, disc player or cable/satellite tuner has an optical digital output, use the supplied optical digital audio cable to connect it here.

**Analog Input connectors:** Use the supplied stereo audio cable to connect the stereo analog outputs of your TV, disc player or cable/satellite tuner here.

**NOTE:** You can connect three different source components to the three input connectors. See *Source Connections*, on page 8 for more information.

**Wireless Code switch:** This switch selects among four different wireless channels for the wireless subwoofer signal.

**IMPORTANT:** Be sure to set the soundbar's Wireless Code switch to the same channel that you set the subwoofer's Wireless Code switch. See *Wireless Code Switches*, on page 10, for more information.

**EQ switch:** This switch adjusts the soundbar's bass performance for either wall or table mounting. If you're mounting the soundbar on a wall with the included wall-mount brackets, set this switch to the "Wall" position for the most natural-sounding bass performance. If you are placing the soundbar on a table, set the EQ switch to the "Table" position for the most natural-sounding bass performance.

**Power Cord connector:** Connect the supplied AC power cord here. See *Power Connections*, on page 9, for more information.

**CAUTION:** Before connecting the power cord, make sure the Voltage Selector switch (see below) is in the correct setting for your local AC voltage. See *Power Connections*, on page 9, for more information.

**Power switch:** Set this switch to the "On" position to put the soundbar into the Standby mode. In normal operation, this switch will be left in the "On" position. See *Turning the Soundbar On and Off*, on page 10, for more information.

**Voltage Selector switch:** This switch is set at the factory for the proper AC voltage in the region where the soundbar is shipped. See *Voltage Selector Switch*, on page 8, for more information.

**AC Fuse holder:** The SB 30 CNTR is factory-equipped with a T4AL/250V AC fuse (110 – 120V AC operation) or a T2AL/250V AC fuse (220 – 240V AC operation). If the fuse ever blows:

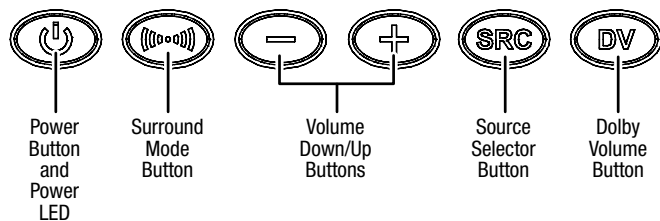
1. Unplug the soundbar power cord from the AC outlet and wait for the Power LED to turn off before proceeding.
2. Use a screwdriver to open the fuse holder.
3. Remove the blown fuse.
4. Replace the fuse with an identical fuse: T4AL/250V (110 – 120V AC operation); T2AL/250V (220 – 240V AC operation).

**CAUTION:** FOR CONTINUED PROTECTION AGAINST FIRE, REPLACE THE FUSE ONLY WITH THE SAME TYPE AND RATING.

## SB 30

## Connections and Controls

## Soundbar Top-Panel Controls



**Power button:** When the soundbar is in the Standby mode (the Power LED is amber), pressing the Power button will turn on the soundbar. When the soundbar is on (the Power LED is blue), pressing the Power button will put it into the Standby mode.

**Power LED:** The Power LED will display different colors and patterns to indicate the soundbar's status:

- Power LED is constantly blue: The soundbar is on.
- Power LED is flashing blue: The soundbar is muted.
- Power LED is amber: The soundbar is in the Standby mode.
- Power LED is off: The soundbar is off.

**Surround Mode button:** Pressing the Surround Mode button cycles the soundbar's audio output through the following three surround modes: Stereo > Virtual > HARMAN Wave > Stereo, etc. The active surround mode is indicated by the soundbar Status LEDs (see *Soundbar Status LEDs*, below). See *Surround Modes*, on page 11, for information about the surround modes.

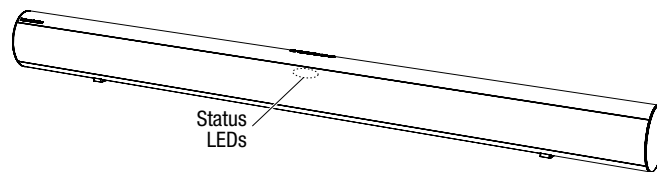
**Volume Down/Up buttons:** Press the “-” button to decrease the volume; press the “+” button to increase the volume.

**Source Selector button:** Pressing the Source Selector button changes the active input source among the Optical Digital, Coaxial Digital and Analog input connectors. The active input source is indicated by the soundbar Status LEDs (see below).

**Dolby® Volume button:** Pressing the Dolby Volume button cycles the Dolby Volume setting between off, low and high. The active setting is indicated by the soundbar Status LEDs (see below). See *Dolby Volume*, on page 12, for more information about Dolby Volume.

## Soundbar Status LEDs

The soundbar has three LED indicators located behind the grille, as shown in the illustration below.



The status LEDs light up in different colors and numbers to indicate the following:

**Active input source (white LEDs)**

- 1 LED = Optical Digital Input
- 2 LEDs = Coaxial Digital Input
- 3 LEDs = Analog Input

**Active surround mode (blue LEDs)**

- 1 LED = Stereo mode
- 2 LEDs = Virtual surround mode
- 3 LEDs = Wave surround mode

(See *Surround Modes*, on page 11, for information about the surround modes.)

**Room Size setting (green LEDs)**

- 1 LED = Small room
- 2 LEDs = Medium room
- 3 LEDs = Large room

(See *Surround Modes*, on page 11, for information about the Room Size setting.)

**Dolby Volume setting (red LEDs)**

- 1 LED = Off
- 2 LEDs = Low
- 3 LEDs = High

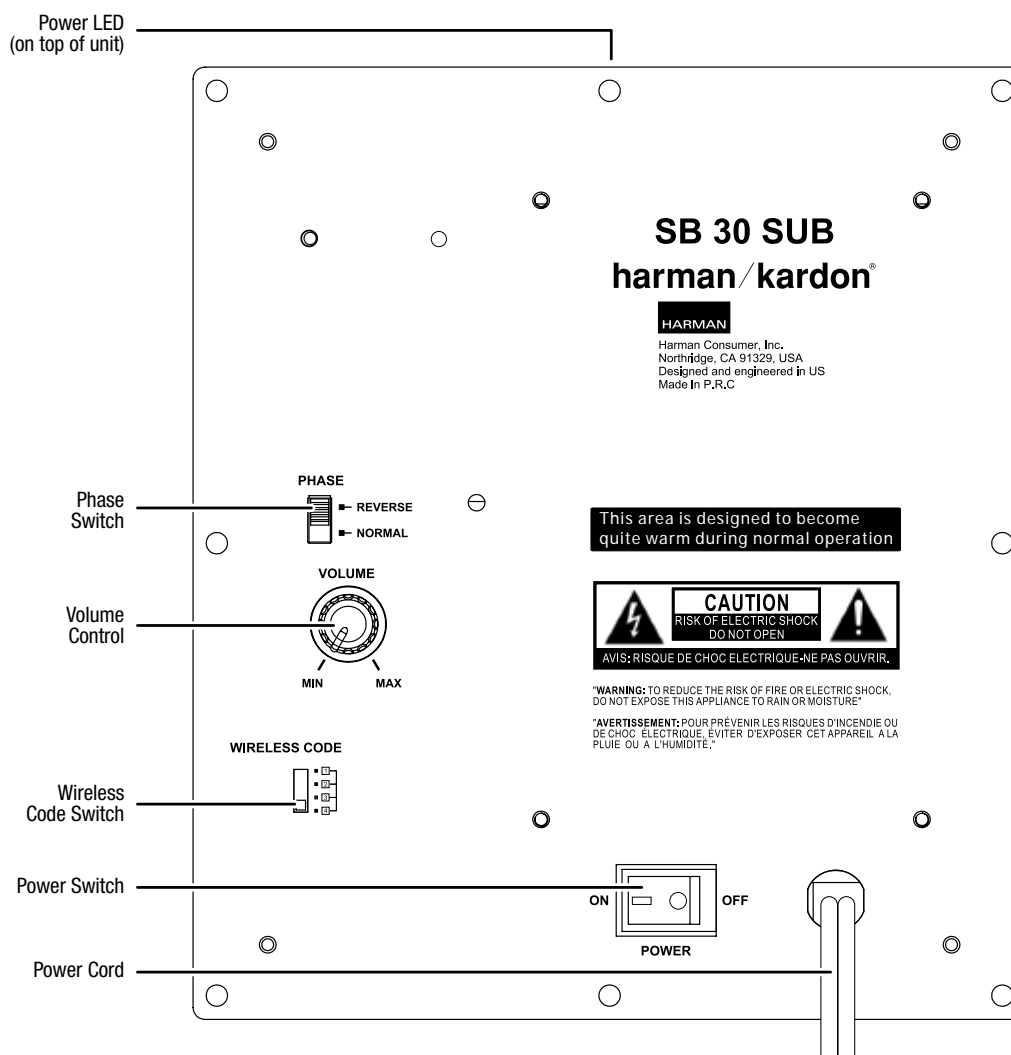
(See *Dolby Volume*, on page 12, for information about Dolby Volume.)

**NOTE:** The Status LEDs will turn off after five seconds of no button presses.

## SB 30

## Connections and Controls

## Subwoofer Controls



**Power LED (on top of unit):** The Power LED's color indicates the subwoofer's operational status:

- Blue: The subwoofer is operational.
- Amber: The subwoofer is in the Standby mode.
- Off: The subwoofer is turned off.

**Phase switch:** This switch determines whether the subwoofer driver's piston-like action moves in and out in phase with the speakers in the soundbar. If the subwoofer were to play out of phase with the soundbar speakers, the sound waves from the soundbar could cancel out some of the sound waves from the subwoofers, reducing bass performance and sonic impact. This phenomenon depends in part on the placement of the subwoofer and soundbar relative to each other in the room. See *Subwoofer Phase Switch*, on page 11, for more information.

**Volume control:** Use this control to balance the subwoofer's volume with that of the soundbar. Turn the knob clockwise to increase the subwoofer's volume; turn it counterclockwise to decrease the subwoofer's volume. See *Subwoofer Volume Control*, on page 10, for more information.

**Wireless Code switch:** This switch selects among four different wireless channels for the wireless subwoofer signal.

**IMPORTANT:** Be sure to set the subwoofer's Wireless Code switch to the same channel that you set the soundbar's Wireless Code switch. See *Wireless Code Switches*, on page 10, for more information.

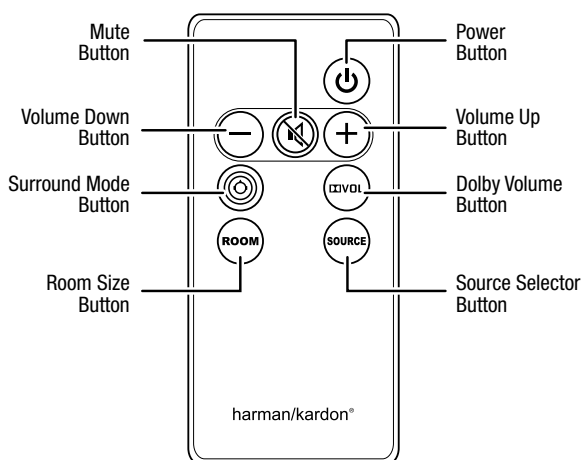
**Power switch:** Set this switch to the "On" position to activate the subwoofer. In normal operation, this switch will be left in the "On" position. See *Turning the Subwoofer On and Off*, on page 10, for more information.

**Power cord (non-detachable):** Plug this cord into an active, unswitched AC outlet. See *Power Connections*, on page 9, for more information.

## SB 30

## Remote Control Functions and Placing the Soundbar and Subwoofer

## Remote Control Functions



**Mute button:** Press this button to mute the system (the soundbar Power LED will flash blue); press again to unmute the system.

**Power button:** When the soundbar is in the Standby mode (the soundbar Power LED is amber), pressing the Power button will turn on the soundbar. When the soundbar is on (the Power LED is blue), pressing the Power button will put it into the Standby mode.

**Volume Down/Up buttons:** Press the "-" button to decrease the volume; Press the "+" button to increase the volume.

**Surround Mode button:** Pressing the Surround Mode button cycles the soundbar's audio output through the following three surround modes: Stereo > Virtual > HARMAN Wave > Stereo, etc. The active surround mode is indicated by the soundbar Status LEDs (see *Soundbar Status LEDs*, on page 5). See *Surround Modes*, on page 11, for information about the surround modes.

**Dolby® Volume button:** Pressing the Dolby Volume button cycles the Dolby Volume setting among Off, Low and High. The active setting is indicated by the status LEDs (see *Soundbar Status LEDs*, on page 5). See *Dolby Volume*, on page 12, for more information about Dolby Volume.

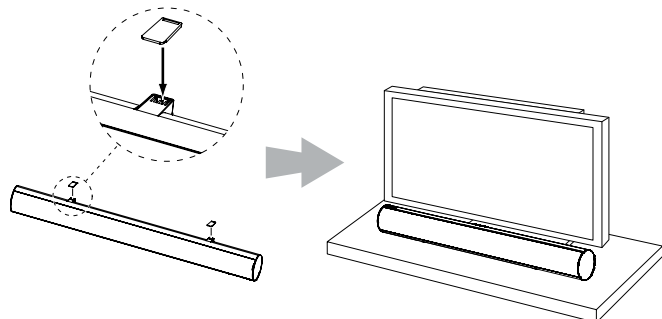
**Room Size button:** The Room Size button lets you tailor the soundbar's energy field in the HARMAN Wave surround mode to match the size of your listening room. See *Surround Modes: HARMAN Wave*, on page 12, for more information.

**Source Selector button:** Pressing the Source Selector button changes the active input source among the Optical Digital, Coaxial Digital and Analog input connectors. The active input source is indicated by the status LEDs (see *Soundbar Status LEDs*, on page 5).

## Place the Soundbar and Subwoofer

## Placing the Soundbar on a Table

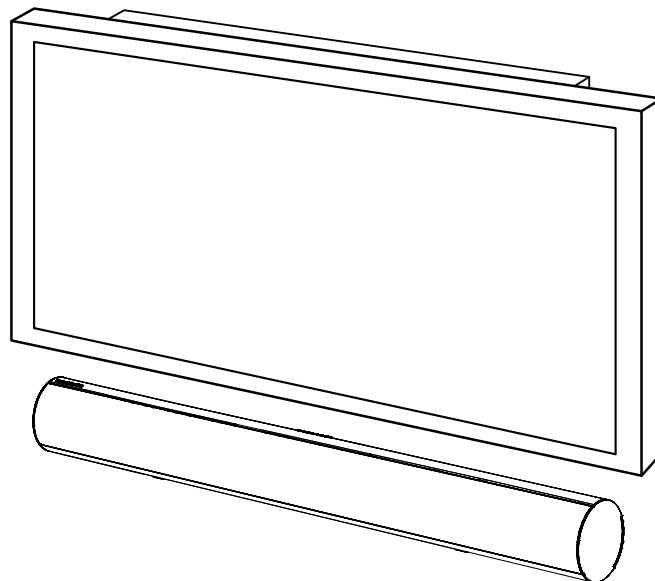
If your TV is placed on a table, you can place the soundbar on the table directly in front of the TV stand, centered with the TV screen. Attach the supplied rubber feet to the soundbar as shown in the illustration and set the soundbar's EQ switch in the "Table" position.



As long as the table's surface is flat, the soundbar will rest on the rubber feet.

## Wall-Mounting the Soundbar

If your TV is attached to a wall, you can use the included wall-mount brackets to mount the soundbar on the wall directly below the TV screen.



1. Determine the location for the soundbar on the wall. Make sure that the top of the soundbar will not block your view of the TV screen when it is mounted on the wall.
2. Mark the locations of the soundbar wall-mount bracket holes on the wall. The holes for the left and right brackets are spaced 830mm apart and are designed to accept #8 screws. The top and bottom holes for each bracket are spaced 25mm apart. See the illustration below.



**NOTE:** To ensure that the soundbar will be level, use a carpenter's level, laser sight or other device to ensure that the two sets of holes are at exactly the same height.

3. Attach the two wall-mount brackets to the wall at the locations you marked, using hardware that is appropriate for the wall's construction and materials. Note that the soundbar weighs 8.4 lb (3.8kg). Be sure to use hardware that can support this weight.



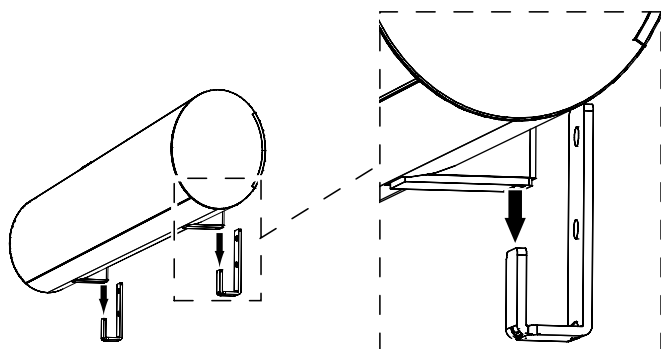
4. Set the soundbar's EQ switch in the "Wall" position.



# SB 30

## Placing the Soundbar and Subwoofer and Connecting the System

- After making all of the connections described in *Connecting the System*, on this page, attach the soundbar to the brackets by sliding the slots in its feet onto the brackets' vertical tabs.



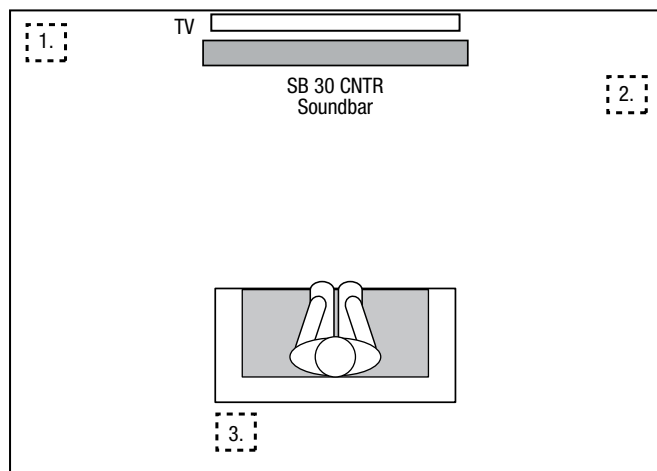
### Placing the Subwoofer

The performance of a subwoofer is directly related to its placement in the listening room and its physical position relative to the other speakers in the system.

While it is true that in general our ears do not hear directional sounds at the low frequencies where subwoofers operate, when installing a subwoofer within the limited confines of a room, the reflections, standing waves and absorptions generated within the room will strongly influence the performance of any subwoofer system. As a result, the specific location of the subwoofer in the room does become important to the amount and quality of bass that is produced.

For example, placing the subwoofer next to a wall generally will increase the amount of bass in the room; placing it in a corner (1) generally will maximize amount of bass in the room. However, corner placement can also increase the destructive effect of standing waves on bass performance. This effect can vary depending on the listening position – some listening positions may yield very good results while others may have far too much (or too little) bass at certain frequencies.

In many rooms, placing the subwoofer along a wall away from a corner (2) can produce the best integration between the sound of the subwoofer and that of the left and right speakers. In some rooms, the best performance could even result from placing the subwoofer behind the listening position (3).



We strongly recommend that you experiment with placement before choosing a final location for your subwoofer. One way you can determine the best location for the subwoofer is by temporarily placing it in the listening position and playing music with strong bass content. Move around to various locations in the room while the system is playing (putting your ears where the subwoofer would be placed), and listen until you find the location where the bass performance is best. Place the subwoofer in that location.

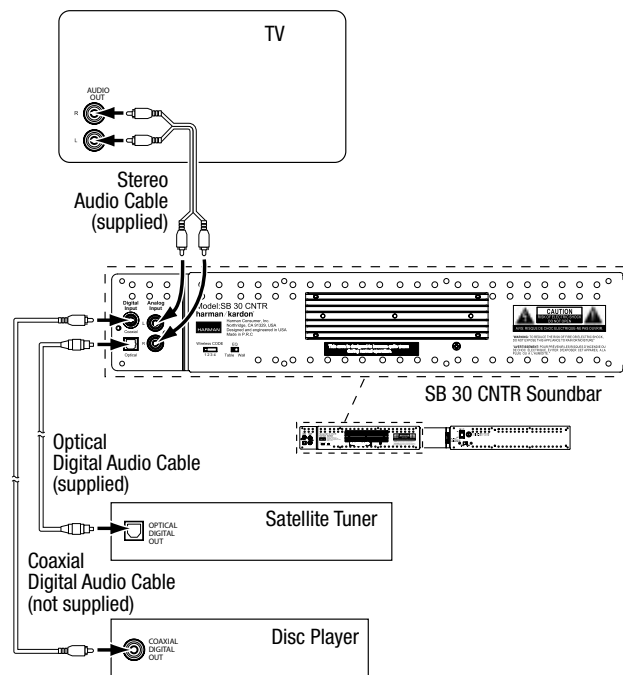
### Connecting the System

#### Source Connections

**Analog:** Use the supplied stereo audio cable to connect the soundbar's Analog Input connectors to your TV's stereo audio output. If your TV has two sets of audio output jacks, use the set that has a fixed (not variable) output level. It will let you turn your TV's speakers all the way off while the TV still supplies a constant audio signal to the soundbar.

**Digital:** If your disc player, cable tuner or satellite tuner has a coaxial or optical digital output, you can use the supplied optical digital audio cable and a coaxial digital audio cable (not supplied) to connect them to the soundbar's Optical and Coaxial Digital Input connectors. We recommend setting the component's digital output to "Bitstream" so it will send Dolby® Digital and DTS® bitstreams to the SB 30 CNTR for decoding. This will produce better results when using the Virtual and HARMAN Wave surround modes (see *Surround Modes*, on page 11).

**NOTE:** If your disc player, cable tuner or satellite tuner does not have a digital output you can connect its analog audio output to your TV. The TV will send its audio signal to the soundbar through the analog connection described above.



#### Voltage Selector Switch

The soundbar's Voltage Selector switch is set at the factory to accommodate the AC power voltage in the area where the soundbar is shipped.

**IMPORTANT:** Before you connect the power cord for the first time it is a good idea to verify that the setting of the voltage selector is appropriate for the power in your area.

In the event that you do need to change the Voltage Selector switch setting:

- Make sure that the soundbar is powered off and the power cord is disconnected from the soundbar.
- Slide the Voltage Selector switch to the appropriate setting ("110 – 120V" or "220 – 240V") as required for your area.

**WARNING: DO NOT UNDER ANY CIRCUMSTANCES OPERATE THE SOUNDBAR WITH THE WRONG VOLTAGE SELECTED. DOING SO MAY RESULT IN SERIOUS DAMAGE TO THE SOUNDBAR, WHICH WILL NOT BE COVERED BY WARRANTY.**

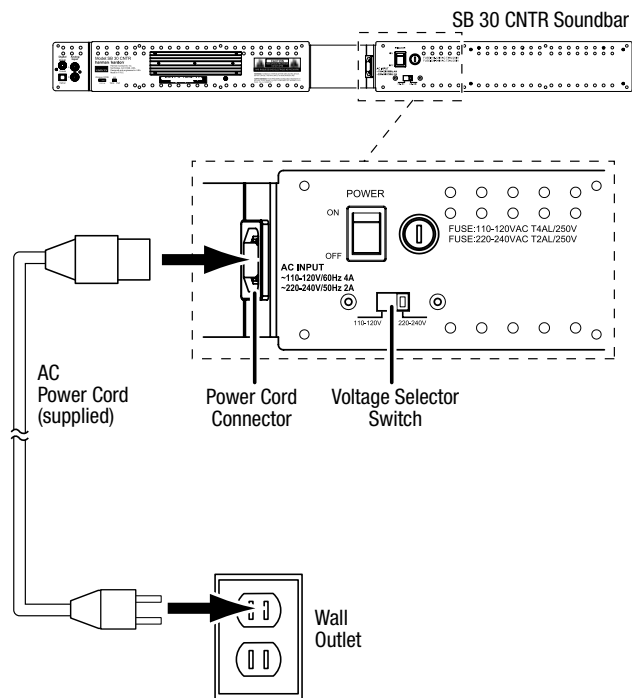
# SB 30

## Connecting and Using Your Soundbar Speaker System

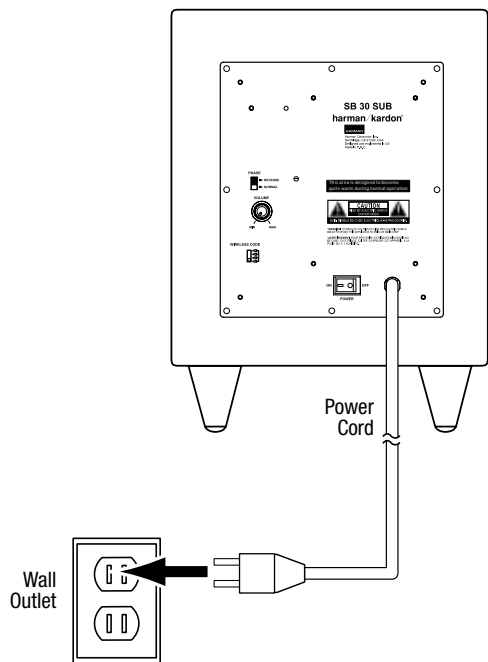
### Power Connections

After you have made and verified all of the source connections and the Voltage Selector switch setting:

1. Connect the supplied AC power cord to the SB 30 CNTR's Power Cord connector and to a working unswitched wall outlet.
2. Connect the subwoofer's power cord into a working unswitched wall outlet.

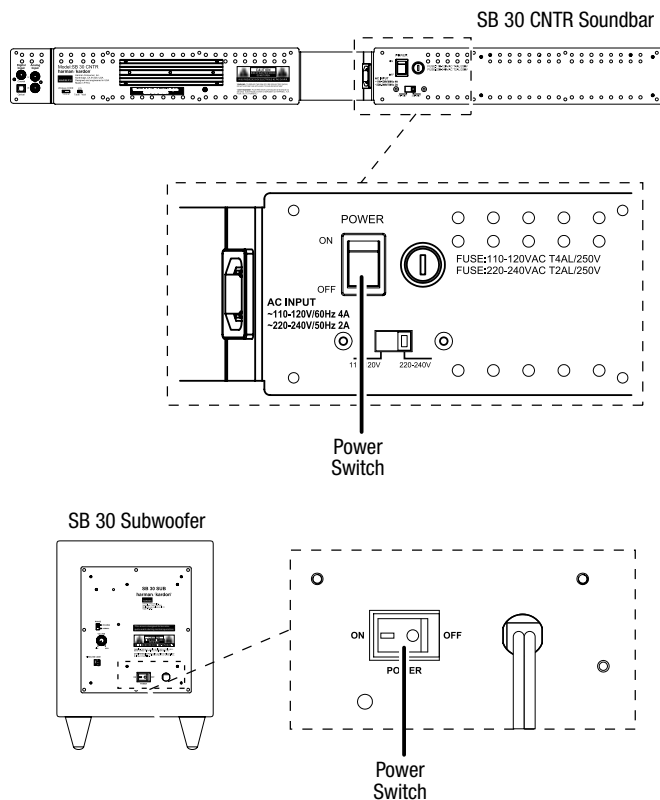


SB 30 Subwoofer



### Using Your Soundbar Speaker System

Set the soundbar's and subwoofer's Power switches in their "On" positions. Normally, you can leave both Power switches set to "On" all the time. If you will be away from home for an extended period of time, or if you will not be using the system for an extended period, set both Power switches to "Off."



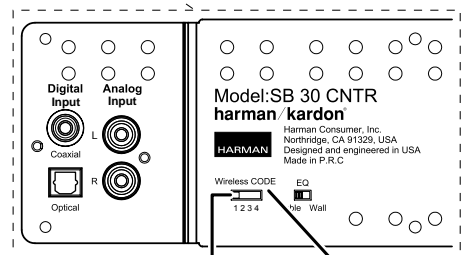
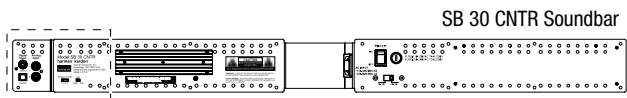
ENGLISH

# SB 30

## Using Your Soundbar Speaker System

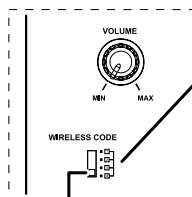
### Wireless Code Switches

In the unlikely event that you encounter interference when operating the system, or if you have more than one SB 30 system in operation, you may change the channel at which the wireless system operates. There are four-position Wireless Code switches on both the soundbar and subwoofer. To change the wireless channel, set each of the switches to one of the other three positions. **IMPORTANT: The switches on the soundbar and the subwoofer must be set to the same position for the wireless system to work.**

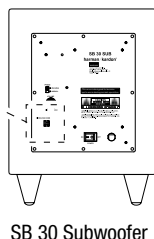


Wireless Code Switch

**Set Both Switches to the Same Number**



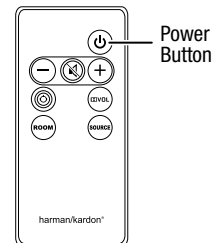
Wireless Code Switch



SB 30 Subwoofer

### Turning the Soundbar On and Off

**Manually:** To turn the soundbar on manually, momentarily press the Power button on the soundbar or on the remote control. Pressing the Power button while the soundbar is on will put it into the Standby mode.



**NOTE:** If you put the soundbar into the Standby mode manually, you can turn it back on only by manually pressing the Power button again.

**Auto turn-on:** The soundbar has a signal detector that will automatically turn the unit on when it senses an audio signal at any of its inputs. To minimize power consumption, the signal detector is not activated unless the soundbar first senses any kind of IR remote signal. Once the soundbar's signal detector has been activated, the unit will automatically turn from Standby to on as soon as it detects an input signal at any of its source input connections.

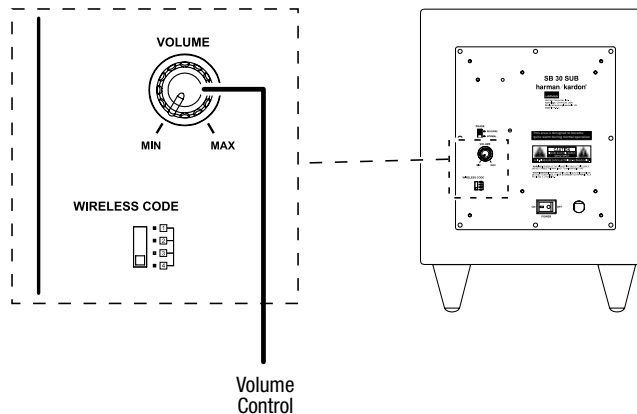
**Auto turn-off:** The soundbar will automatically enter the Standby mode if no audio signal is detected at any of its source input connections for approximately 15 minutes.

### Turning the Subwoofer On and Off

The subwoofer will automatically turn on when it receives an audio signal from the soundbar, and it will return to the Standby mode when it has received no audio signal for 15 minutes. The subwoofer's Power LED will turn blue when the subwoofer is on and will turn amber when the subwoofer is in Standby.

### Subwoofer Volume Control

Use the subwoofer's Volume control to balance its volume with that of the soundbar. Once you find the proper balance between the subwoofer and the soundbar, the soundbar's Volume Up/Down buttons will control the volume of the entire system, and you should not have to readjust the subwoofer's Volume control.



Volume Control

### Notes on setting subwoofer volume

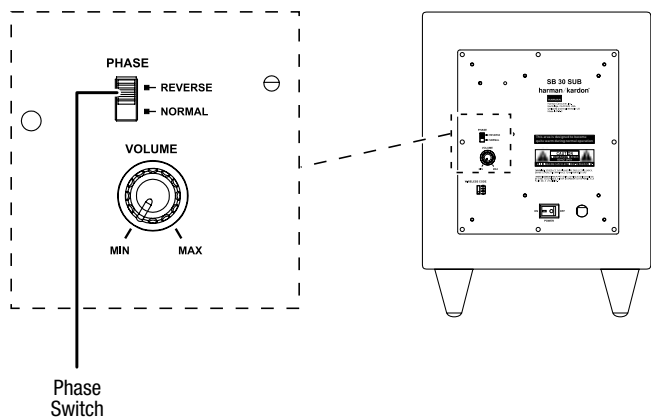
- Sometimes the ideal subwoofer volume setting for music is too loud for films, while the ideal setting for films is too quiet for music. When setting the subwoofer's Volume control, listen to both music and films with strong bass content and find a "middle ground" volume level that works for both.
- If your subwoofer always seems too loud or too quiet, you may want to place it in a different location. Placing the subwoofer in a corner will always tend to increase its bass output, while placing it away from any walls or corners will always tend to lessen its bass output.

# SB 30

## Using Your Soundbar Speaker System

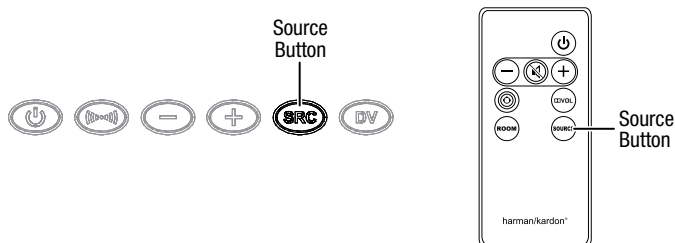
### Subwoofer Phase Switch

When the subwoofer is properly in phase with the soundbar speakers, the sound will be clearer and have more impact. In-phase performance will make percussive sounds like drums, piano and plucked strings sound more lifelike. Although there is no absolutely correct setting for the subwoofer's Phase switch, in most cases it should be left in the "Normal" position. The best way to set the Phase switch is to listen to music that you are familiar with and adjust the switch so that drums and other percussive sounds have maximum impact.



### Selecting an Input Source

Press the Source button on the soundbar or the remote control to switch among the three sources: optical digital, coaxial digital and analog.

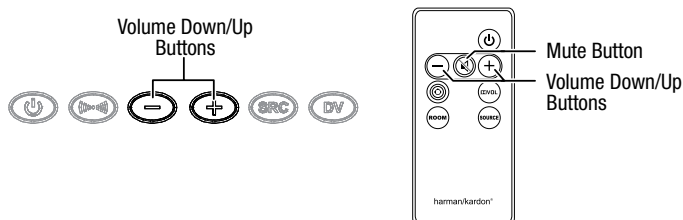


The soundbar's Status LEDs will glow white to indicate the active source.

- Optical Digital
- Coaxial Digital
- Analog

### Adjusting the System's Volume

Press the Volume Up and Down buttons on the soundbar or the remote control to raise and lower the system's volume one step at a time. Hold down the buttons to raise or lower the volume continuously. To mute the system, press the remote control's Mute button.



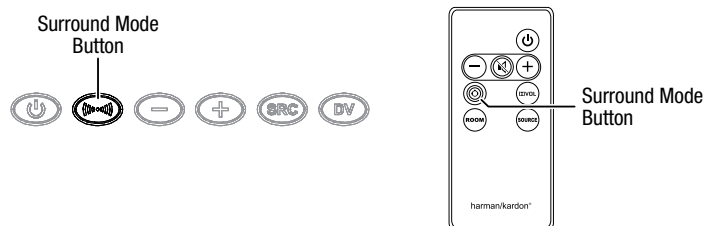
For the best sound, we recommend turning your TV's built-in speakers off. Consult your TV's owner's manual to find out how to do it. If there is no way to turn your TV's speakers off, you can adjust your TV's volume so that the SB 30 system will always supply most of the sound:

1. Using the volume buttons on your TV, turn its volume all the way down.
2. Then use the soundbar's Volume Up/Down buttons to set the sound to a comfortable listening level.

### Surround Modes

Your soundbar incorporates extremely sophisticated digital signal processing that, along with 13 individual transducers powered by 11 amplifier channels, creates an astonishingly realistic surround-sound presentation in any size room, for listeners at any position in the room, without needing any extra speakers or wires.

Press the Surround Mode button on the soundbar or the remote control to switch among the three surround modes: Stereo, Virtual and HARMAN Wave.



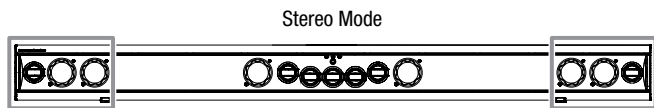
The soundbar's Status LEDs glow blue to indicate the active surround mode:

- Stereo
- Virtual
- HARMAN Wave

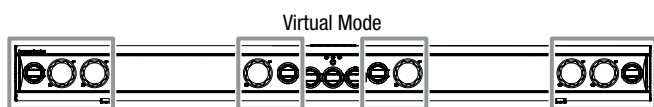
# SB 30

## Using Your Soundbar Speaker System

**Stereo:** The Stereo mode reproduces the input signal in conventional two-channel stereo, utilizing the soundbar's left and right speakers. Digital equalization and digital crossover filters help achieve accurate performance for listeners in a variety of seating positions, not just those directly on the speaker's center line.

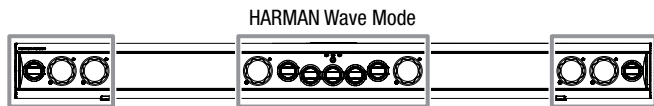


**Virtual:** The Virtual mode utilizes sophisticated digital signal processing and an additional four transducers to simulate the reflected sounds that would be created by the rear-channel speakers in a room with a dedicated surround-sound system. The soundbar's digital signal processing is specifically designed to maximize the useful listening area while reducing sonic colorations. This digital processing also enhances conventional stereo and MP3 sources by creating rear ambience that adds depth to the sound presentation.

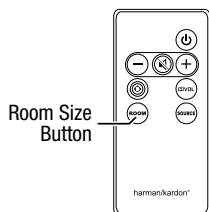


This mode achieves the best surround sound effect for listeners who are sitting along the soundbar's center line, from 3 ft – 10 ft (1m – 3m) away from the speaker.

**HARMAN Wave:** The HARMAN Wave mode utilizes all 13 of the soundbar's transducers to create both left and right surround sound fields, in addition to using the left and right transducer groups to reproduce the front left and right stereo signals. Extremely sophisticated digital signal processing uses wave field synthesis to separately control direct and indirect sound fields, creating an impressive surround sound sensation in even a large room and for many listeners seated over a large listening area.



The HARMAN Wave mode features a Room Size adjustment that allows you to tailor the soundbar's energy field to match the size of your listening room. Press the Room Size button on the remote



The soundbar's Status LEDs glow green to indicate the active Room Size setting:

- Small Room
- Medium Room
- Large Room

Feel free to experiment with this adjustment to find the effect that works best for your particular listening room and seating arrangement.

As with the Virtual mode, in the HARMAN Wave mode the soundbar's digital signal processing also creates rear ambience that adds depth to the sound presentation for conventional stereo and MP3 sources.

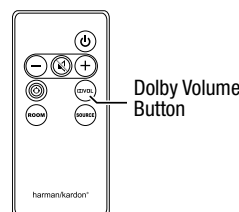
### Dolby Volume

Your soundbar implements Dolby Volume processing, which can improve the audio performance of the system by revealing subtle details in the sound, even at normal home-listening volumes.

One concern of the typical home theater listener is that volumes can vary widely for different programs played by a source (e.g., television commercial advertisements are often much louder than the main program). Another is that details heard in the recording studio at typically high reference volumes are lost at the lower volumes used by many listeners at home.

The soundbar uses two Dolby Volume techniques to address these issues. The Leveler module maintains a consistent listening volume within a source (e.g., commercial television or different tracks on a mix CD). The Modeler module endeavors to re-create the reference presentation that was heard in the recording studio without losing portions of the program at the typically lower volume levels often used in the home. When the Modeler module is active, you may notice details of the performance that were hidden when the program was played on other equipment.

Press the Dolby Volume button on the remote to adjust the Dolby Volume setting.



The soundbar's Status LEDs glow red to indicate the active Dolby Volume setting:

- Dolby Volume Off
- Dolby Volume Low
- Dolby Volume High

**Off:** No Dolby Volume processing.

**Low:** Dolby Volume Modeler module is active.

**High:** Dolby Volume Modeler and Leveler modules are active.

## SB 30

## Specifications

**Specifications****SB 30 System**

Frequency response:	40Hz – 20kHz
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**SB 30 CNTR Soundbar**

Low-frequency transducers:	Six x 2" (51mm) cones
High-frequency transducers:	Seven x 1" (25mm) domes
Amplifier power:	40 watts x 4; 10 watts x 7
Power requirement:	110V – 120V AC, 60Hz (USA); 220V – 240V AC, 50Hz (EU), selectable
Power consumption :	<0.5W (standby); 230W (maximum)
Dimensions (H x W x D):	3-15/16" x 45-11/16" x 3-1/8" (100mm x 1160mm x 80mm)
Weight:	8.4 lb (3.8kg)

**SB 30 Subwoofer**

Low-frequency transducer:	8" (200mm) down-firing cone
Amplifier power:	100 watts
Frequency response:	40Hz – 160Hz
Controls:	Volume, phase
Enclosure type:	Sealed
Power requirement:	120V, 60Hz (USA); 220V-240V, 50Hz/60Hz (EU)
Power consumption:	<0.5W (standby); 100W (maximum)
Dimensions (H x W x D):	13-29/32" x 10-1/2" x 10-1/2"; (353mm x 267mm x 267mm)
Weight:	19.2 lb (8.7kg)

## SB 30

## Troubleshooting

## Troubleshooting

If your SB 30 system isn't performing the way you think it should, check to see if the problem is covered in this section before calling your dealer or contacting a Harman Kardon representative.

Problem	Solution
The soundbar does not turn on (the Power LED is off):	<ul style="list-style-type: none"> <li>• Check that the soundbar's power cord is plugged into a working AC outlet.</li> <li>• Check that the soundbar's Power switch is in the "On" position.</li> <li>• Check if the soundbar's AC fuse has blown. See <i>Soundbar Rear-Panel Controls and Connections: AC Fuse Holder</i>, on page 4, for instructions on checking and changing the fuse.</li> <li>• Check if the soundbar's voltage selector switch is set in the incorrect position for the AC voltage in your area. <b>CAUTION: If the switch is set in the incorrect position, do not change the switch position or attempt to turn the soundbar back on.</b> Unplug the soundbar from the wall outlet and take it to an authorized Harman Kardon service center.</li> </ul>
The subwoofer does not turn on (the Power LED is off):	<ul style="list-style-type: none"> <li>• Check that the subwoofer's power cord is plugged into a working AC outlet.</li> <li>• Check that the subwoofer's Power switch is in the "On" position.</li> </ul>
There is no sound coming from both the soundbar and the subwoofer (their Power LEDs are amber or blue):	<ul style="list-style-type: none"> <li>• Check that the soundbar is on (the Power LED is blue).</li> <li>• Check that the cable connecting the TV or other source component to the soundbar is properly connected at both ends.</li> <li>• Check that the soundbar is set to the correct input source (one white Status LED glows for optical digital, two white Status LEDs for coaxial digital, and three white Status LEDs for analog) and that the input source device is playing an audio signal.</li> <li>• Check that the system is not muted (when the system is muted, the soundbar's Power LED flashes blue). If the system is muted, press the remote control's Mute button to un-mute the system.</li> <li>• Check that the soundbar's volume is not turned all the way down.</li> </ul>
There is no sound coming from just the subwoofer (the Power LED is amber or blue):	<ul style="list-style-type: none"> <li>• Check that the Subwoofer Volume control is not turned all the way down (fully counterclockwise).</li> <li>• Check that the Wireless Code switches on the subwoofer and soundbar are both set to the same setting number.</li> <li>• Move the subwoofer closer to the soundbar. The maximum wireless operation distance is 50 feet (15.3m).</li> </ul>
The soundbar's sound is distorted:	<ul style="list-style-type: none"> <li>• Check the source device to see if the distortion is coming from it and not from the soundbar.</li> </ul>
The system's sound is too quiet, even when the soundbar's volume is turned all the way up:	<ul style="list-style-type: none"> <li>• If the TV or source component is connected via a variable analog output, check its instructions to be sure that the output is not turned down too low.</li> </ul>
The bass output is not loud enough:	<ul style="list-style-type: none"> <li>• Turn up the subwoofer's Volume control.</li> <li>• Move the subwoofer into a corner of the room.</li> <li>• Move the subwoofer closer to the seating location.</li> </ul>

You can find additional troubleshooting information in the FAQs link on the Support page at [www.harmankardon.com](http://www.harmankardon.com).



**HARMAN**

HARMAN Consumer, Inc.  
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Features, specifications and appearance are subject to change without notice.

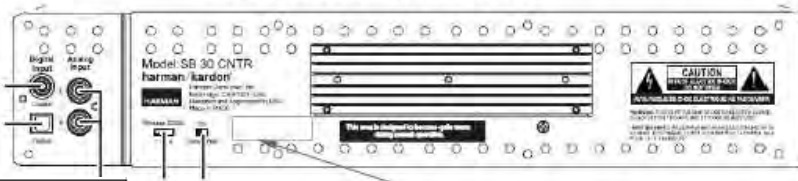
Part No. 950-0357-001

**harman/kardon**  
by HARMAN

[www.harmankardon.com](http://www.harmankardon.com)



SOUNDBAR



1	411-000-09213-E	Serial Nr. Label
2	188-SB30CNT00-E*1	Remote Control
3	413-000-06704-E	Label
4	152-V60201A01-E*1	Power Cable
5	320-SR-05273-0BAE*2	Rubber Feet
6	376-000-01249-0BAE*1	Wall Brackets
7	376-000-01272-0BAE*1	Wall Brackets
8	165-020001101-1E*1	RCA Cable
9	165-01500PP01-E*1	Optical Cable
10	401-000-05374-E	Accessory Box
11	435-000-05196-E	Card Board Insert
12	431-000-07518-E	EPE End
13	430-002-05493-E	Foam Sheet
14	431-000-07026-E	EPE Middle
15	413-000-05591-E	Antistatic Sheet for Logo
16	398-000-00304-E	Dessicant Bag
17	402-000-06634-E	Beauty Box
18	411-000-09213-E	Serial Nr. Label

1) Serial Nr. Label  
411-000-09213-E

2) Remote Control  
188-SB30CNT00-E\*1  
413-000-06704-E

3) Label  
152-V60201A01-E\*1  
320-SR-05273-0BAE\*2  
376-000-01249-0BAE\*1  
376-000-01272-0BAE\*1  
165-020001101-1E\*1  
165-01500PP01-E\*1

4) Power



5) Rubber Feet  
6) Wall Brackets  
7) Wall Brackets  
8) RCA Cable  
9) Optical Cable

10) Accessory Box

401-000-05374-E

435-000-05196-E

11) Card Board Insert

431-000-07518-E

12) EPE End

430-002-05493-E

13) Foam Sheet

431-000-07026-E

14) EPE Middle

413-000-05591-E

15) Antistatic Sheet for Logo

398-000-00304-E

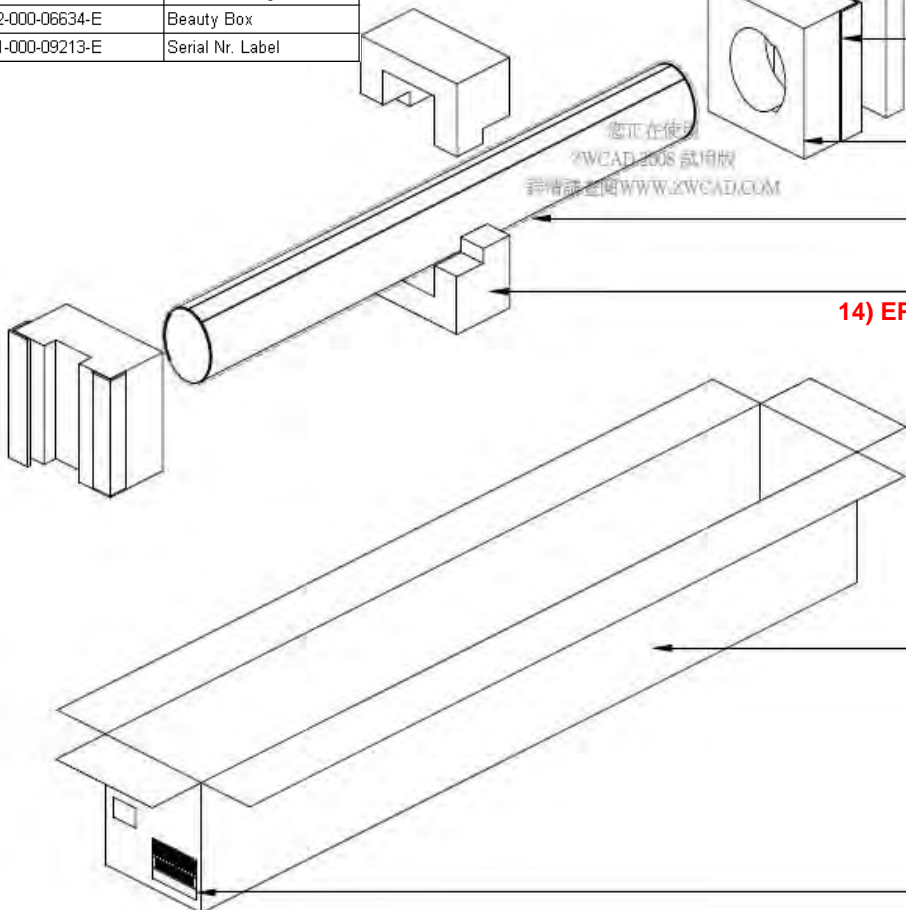
16) Dessicant Bag

402-000-06634-E

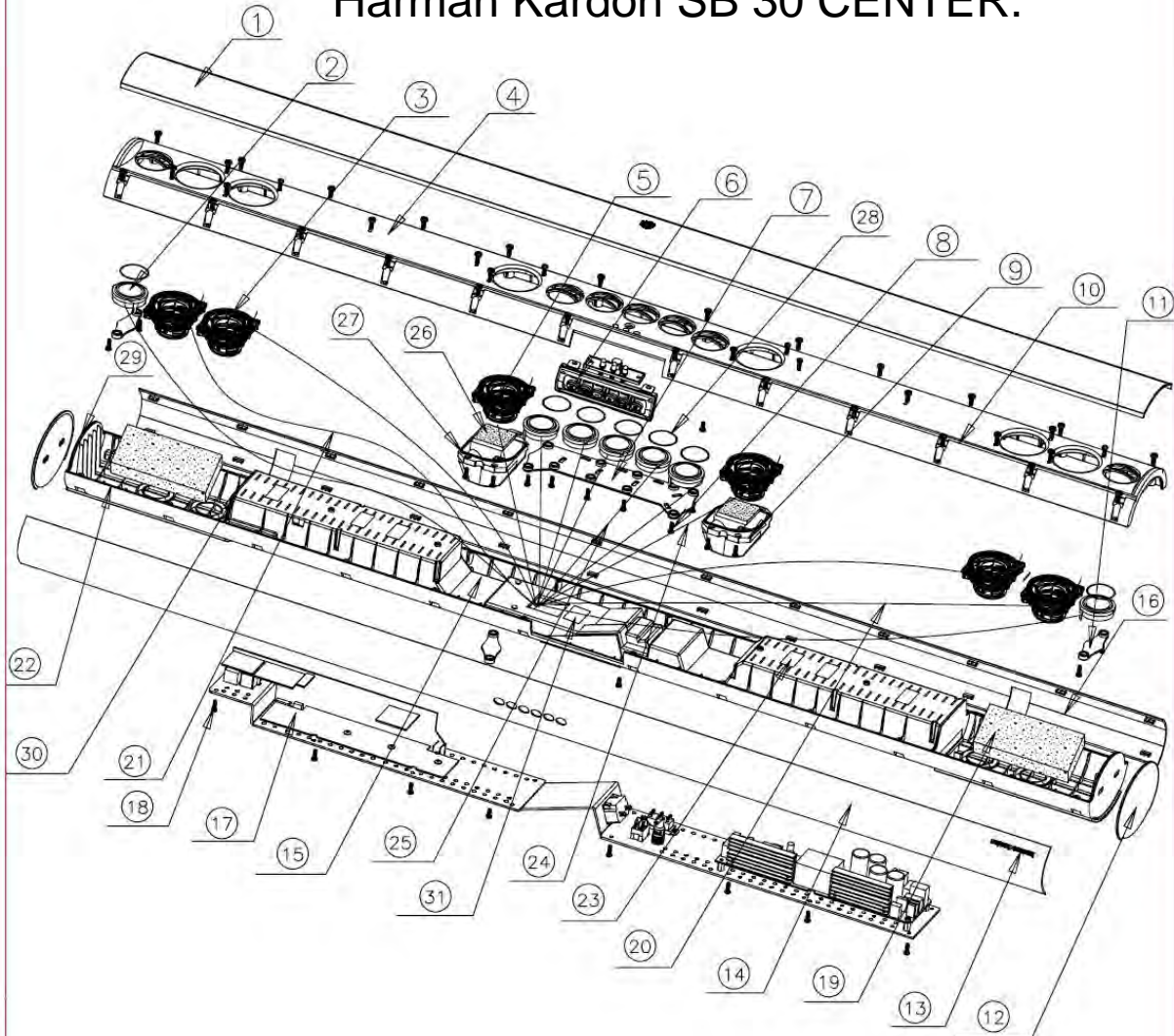
17) Beauty Box

411-000-09213-E

18) Serial Nr. Label

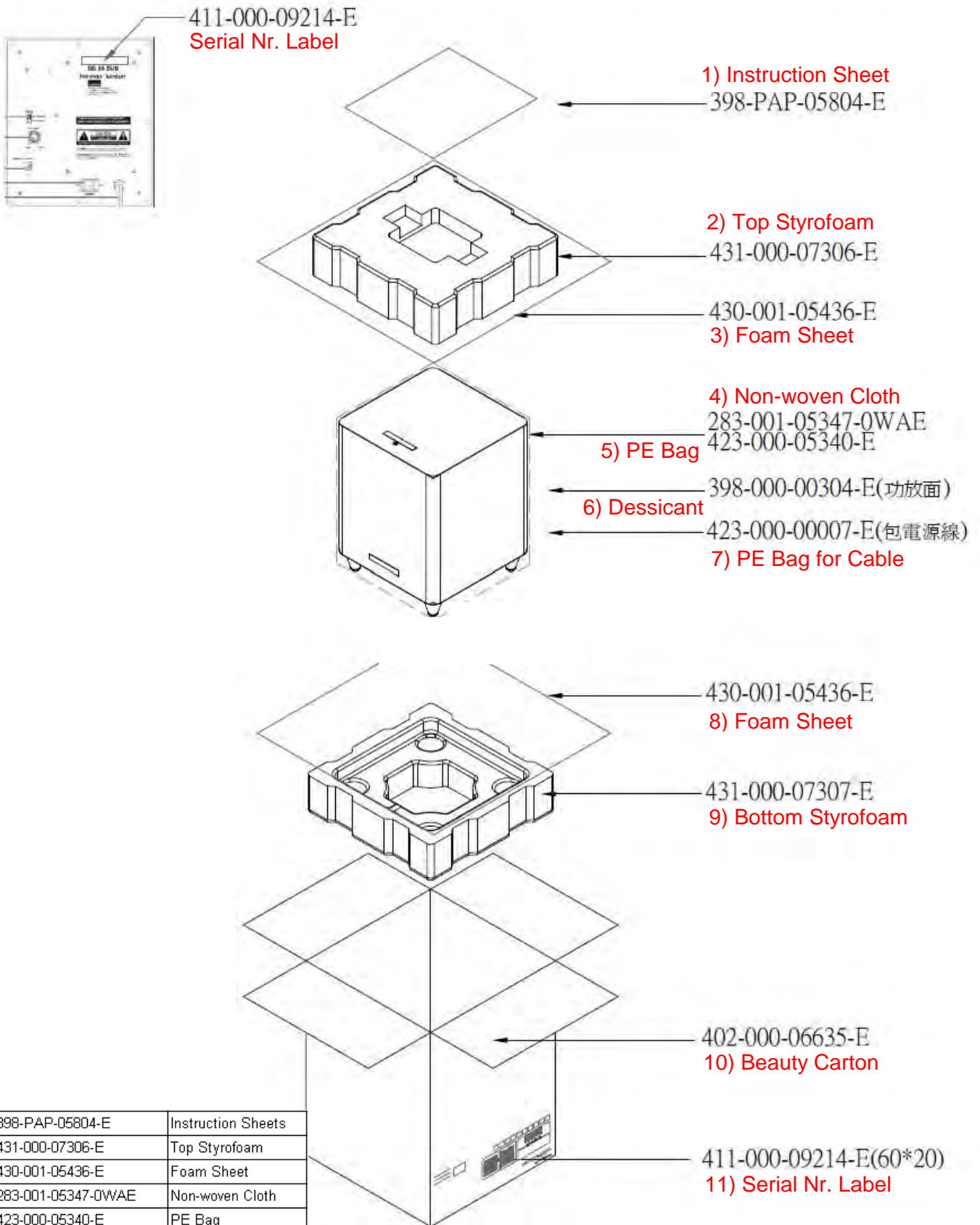


# Harman Kardon SB 30 CENTER.



SB 30CNTR/230	Part No.	
1	Grille	329-020-05540-0BAE
2	Tweeter	0500132004Z
3	Woofer Warrior 8ohm black	0500107001Z
4	Front Enclosure	243-020-05305-0BAE
5	Woofer Warrior 4ohm black	0500108001Z
6	IR Button	015-0N00-00057-E
7	Tweeter hold-on board	398-ABS-05717-0BAE
8	Screw T3*8	352-AM03008C1086-E
9	Woofer back cover	398-ABS-05716-0BAE
10	Screw $\varnothing$ 3.5*10 B type	352-AM03510D117-E
11	Tweeters hold-on bar	398-ABS-05062-E
12	End Cap	305-ABS-05051-0BAE
13	Logo	315-AG-00556-0VAE
14	Top Trim Panel	315-ABS-05289-0BAE
15	Rear Enclosure	247-020-05114-0AAE

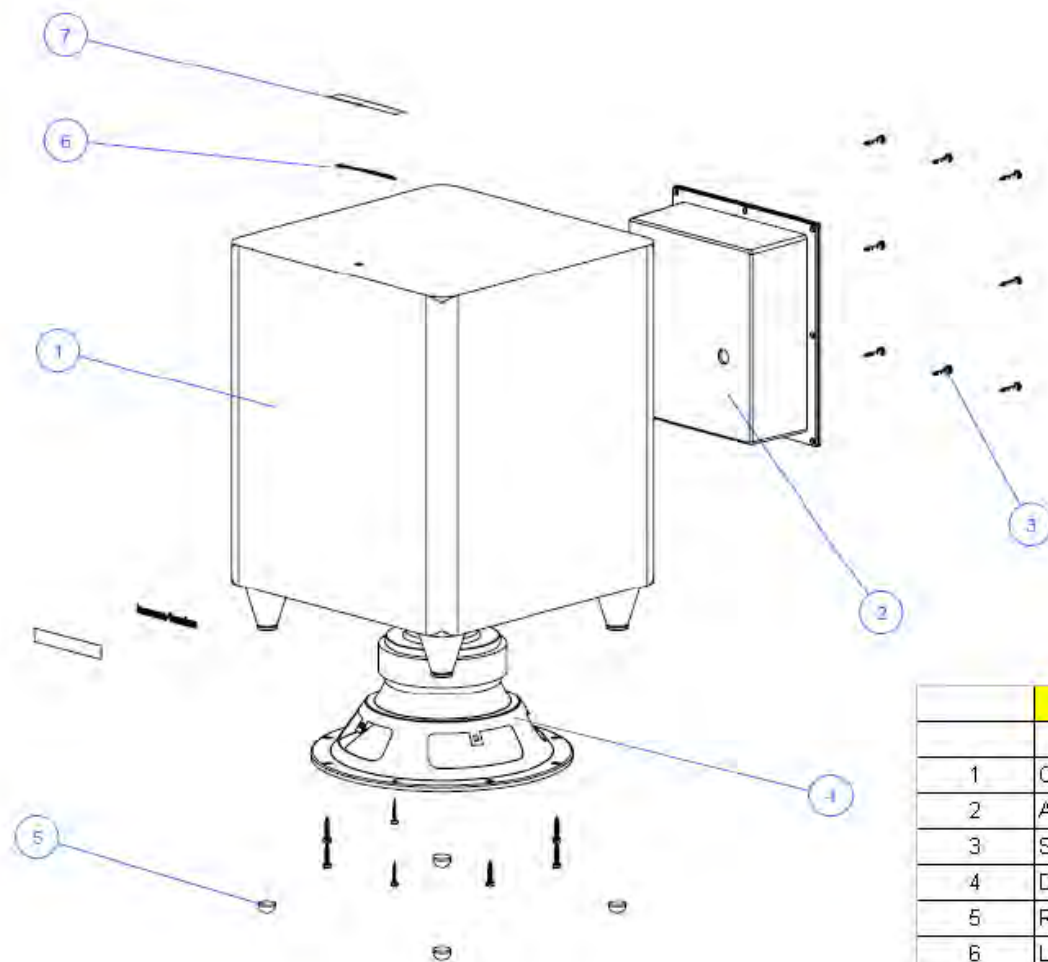
	SB 30CNTR/230	Part No.
16	Bottom Trim Panel	315-ABS-05290-0BAE
17	Amp	010-0N04-05361-E
18	Screw for Amp	352-AM03010C1503-E
19	Harness SPG 170*80*15mm3.5g	328-SPG-06075-0WAE
20	Right Channel Cable	166-5088C3JD-E
21	Left Channel Cable	166-5040A3JD-E
22	EVA Gasket 600*6*1mm	333-EVA-06114-0BAE
23	EVA Gasket 60*20*2.5mm	333-EVA-06116-0BAE
24	Woofer Cable	166-5048A3JB-E
25	Tweeter Color Cable	166-5046A1JB-E
26	Harness SPG 35*35*30mm0.9g	328-SPG-06074-0WAE
27	EVA Gasket 70*60.8*1.0mm	333-EVA-06118-0BAE
28	Insulation	333-EVA-06119-0BAE
29	EVA Gasket (rear- short)	214-000-05409-0BAE
30	EVA Gasket 150*10*1.5mm	333-EVA-06113-0BAE
31	EVA Gasket 60*40*1.5mm	333-EVA-06115-0BAE



1	398-PAP-05804-E	Instruction Sheets
2	431-000-07306-E	Top Styrofoam
3	430-001-05436-E	Foam Sheet
4	283-001-05347-0WAE	Non-woven Cloth
5	423-000-05340-E	PE Bag
6	423-000-00304-E	Dessicant
7	423-000-00007-E	PE Bag for Cable
8	430-001-05436-E	Foam Sheet
9	431-000-07307-E	Bottom Styrofoam
10	402-000-06635-E	Beauty Carton
11	411-000-09214-E (60*20)	Serial Nr. Label



# Harman Kardon SB 30 SUB.



SB 30SUB/230		
	Description	Part No.
1	Cabinet	241-080-05531-1BAE
2	Amp Assy	
3	Screw	352-FM04020D605-E
4	Driver	24MR11DZA-DWD1-E
5	Rubber Foot	320-SR-05226-0BAE
6	Logo	316-AG-00557-E
7	Logo ProtectiveFilm	413-000-05591-E

Please note. Amp assembly number is:  
 010-0N10-05363-E: Complete Amp SB30/230 SUB.

# HK SB 30 soundbar amplifier parts list.

item	part no.	description	quantity	refer
1	130-3F471MD00-E	Y1 Cap 470P Y5U20% 400V/250V (RoHS)	2	
2	153-V2163NG-E	power plug(IEC JK 2P)SS-120-H (RoHS)	1	
3	155-520F528-E	fuse holder MF528 VDE RoHS	1	
4	156-H010015-E	heatshrink tube $\varphi$ 1.0mm*15mm (RoHS)	2	
5	154-U40006T0-E	fuse 4.0A 250V 20mm (RoHS)	1	
6	156-H050010-E	heatshrink tube 5 $\varphi$ *10mm (RoHS)	2	
7	162-10062005-E	WIRE 60mm UL1617 AWG18 RED	2	
8	163-11009-E	nylon tie 100mm clear color (RoHS+REACH	2	
9	180-SL2122AL-E	Switch SLIDE SW L2122AL(RoHS)	1	
10	336-PET-05770-0BAE	mylar sheet PET 221.0*58.0*0.4mm black + back adhesive RoHS	1	
11	333-SPG-06137-0BAE	50*50*5MM38degree foam RoHS	1	
12	333-EVA-06138-0BAE	EVA 38degree EVA. 30*5*1MM RoHS	1	
13	333-EVA-06120-0BAE	EVA 245*6*1mm 38degree RoHS	1	
14	333-EVA-06085-1BAE	EVA gasket 15*10*4MM 60degree RoHS	1	
15	317-000-00037-0LAE	GND terminal M3 t=0.3 (RoHS)	1	
16	302-AL-05333-1BAE	Aluminum panel	1	
17	180-PRF1003S-E	switchROCK RF-1003-BB2-OHA (RoHS)	1	
18	162-A016D011-E	Cable H03VV2*0.75 blk/wht 160 mm 3.96mmHousing	1	
19	432-000-05054-E	3M9448 double sided adhesives 16mm*50 meter length	0,0042	
20	362-CU-05002-0YAE	hex copper stand off M3*8 (RoHS)	4	
21	355-P0306242-E	M3 washer ID3.2 OD5.6 T0.8 (RoHS)	4	
22	354-HM03005-E	M3 nut (RoHS)	4	
23	352-AM03010D065-E	$\varnothing$ 3*10 P type, philips head screw (RoHS+REACH+CPSIA)	2	
24	351-AM03010A085-E	M3*10 philips head/ screw (RoHS)	3	
25	351-AM03006A069-E	M3*6 philips head/screw(RoHS)	7	
26	156-H070011-E	tube $\varphi$ 7mm*11mm	6	
27	015-0N00-00057-E	Amp HARMAN SB30 CNTRbuttons RoHS	1	
28	051-A05360E01-E	PCB ASS'Y SB30 IR BD EUP RoHS	1	
29	050-A05360ET01-E	SMD PCB ASS'Y SB30 IR BD TOP EUP RoHS	1	
30	050-A05360EB01-E	SMD PCB ASS'Y SB30 IR BD BOTTOM EUP RoHS	1	
31	051-A05360F-E	PCB ASS'Y SB30 KEY BD EUP RoHS	1	
32	050-A05360F-E	SMD PCB ASS'Y SB30 KEY BD EU P RoHS	1	
33	051-A05360A-E	PCB ASS'Y SB30 DSP-MCU RoHS	1	
34	051-A05360D-E	PCB ASS'Y Digital-Converter SB30 EUP RoHS	1	
35	050-A05360D-E	SMD PCB ASS'Y SB30 Digital-Converter EUP RoHS	1	
36	051-A05360G-E	PCB ASS'Y SB30 OP BD EUP RoHS	1	
37	050-A05360GT-E	SMD PCB ASS'Y SB30 OP BD TOP RoHS	1	
38	050-A05360GB-E	SMD PCB ASS'Y SB30 OP BD BOTTOM RoHS	1	
39	051-A05360H-E	PCB ASS'Y SB30 Trigger BD EUP RoHS	1	
40	050-A05360H-E	SMD PCB ASS'Y SB30 Trigger BD EUP RoHS	1	
41	050-A05360AT-E	SMD PCB ASS'Y SB30 DSP-MCU TOP RoHS	1	
42	051-A05360B-E	PCB ASS'Y SB30 DAMP RoHS	1	
43	051-A05360C-E	PCB ASS'Y SB30 POWER SURCE EUP RoHS	1	
44	051-A05360I-E	PCB ASS'Y SB30 PSU Standby RoHS	1	
45	052-A05360I-E	AI PCB ASS'Y SB30 PSU Standby RoHS	1	
46	050-A05360I-E	SMD PCB ASS'Y SB30 PSU Standby RoHS	1	
47	052-A05360C-E	AI PCB ASS'Y SB30 POWER SURCE EUP RoHS	1	
48	050-A05360C-E	SMD PCB ASS'Y SB30 POWER SURCE EUP RoHS	1	
item	part no.	description	quantity	refer
1	123-11T35315-E	Ferrite core K5B T 3.5*3*1.5 RoHS	2	
2	156-H010015-E	Heat shrink tube $\varphi$ 1.0mm*15mm (RoHS)	2	
3	193-0S018012-E	transistor Isolation gasket OTHER SILCON18mm*12mm (RoHS)	2	
4	361-NYL-00054-0LAE	transistor Isolation gasket (SW06002) (RoHS)	2	
5	351-AM03008A078-E	M3*8 Screw (RoHS+REACH	8	
6	197-00GBU6G-E	Rectifier GBU6G 600V 6AMP (RoHS)	1	R1,
7	135-C337M200-E	Capacitor 330uF 200V $\pm$ 20% 105°C 18*35 P=7.5mm RoHS	4	C1,C2,C3
8	135-A108M35A-E	Capacitor 105°C 1000u/35V 20% LOWESR TAP RoHS	3	C22,C23,C24
9	129-D473JF34-E	EMDCapacitor 0.047uF 630V $\pm$ 5% LS:15mm RoHS	1	C28
10	175-1D03V02-E	Connector 3PIN JWT A3963 (RoHS)	1	CN1
11	175-1D02V01-E	Connector 2PIN PITCH=3.96mm (RoHS)	1	CN3
12	132-334KB74-E	Capacitor0.33uF 275V +/-10% LS=15mm (RoHS)	1	CX1
13	132-224KB54-E	Capacitor 0.22uF 250V AC+/-10% W18*H13.5*T5.0 P=15mm	1	CX2
14	197-031N5406-E	Diode MIC 1N5406 3A 600V DO-201 RoHS	1	D13
15	197-00MBR10100CT-E	Diode MBR10100CT HI-SEMICON 100V 10A TO220AB RoHS	2	D6,D8
16	162-A018D021-E	wire H03VV2*0.75 BK/WH 180m m 3.96mm RoHS	1	J2
17	122-116R0M010-E	Inductor CR310-6ROMS RoHS	1	L3
18	122-14672M07501-E	FERRITE CORE 670uH 20% 0.75mm EMI (RoHS)	1	LF1
19	122-14124M05001-E	FERRITE CORE 12mH 20% 0.5mm EMI (RoHS)	1	LF2
20	192-993A14N50C-E	Transistor IPS FTA14N50C TO-220F 500V14A RoHS	2	Q2,Q3
21	116-1410R0F26-E	Resistor 10.0 $\Omega$ 1/4W $\pm$ 1% MF 26mm TAP (RoHS)	1	R36
22	150-SLP292001-E	Transformer LP-2920H(12P) 1.5mH MIN(RoHS)	1	T2
23	109-1SCK0480-E	Resistor NTC SCK048 (RoHS)	1	TH1
24	190-99PC817C-E	IC PC817C(COSMO) (RoHS)	1	U4
25	109-2VR104710-E	Varistors TVR10471(RoHS)	1	ZNR1
26	130-3F222MD00-E	Capacitor 2200PF 400V $\pm$ 20% Y1 (RoHS)	1	背焊,CY2,

27	051-A05360I-E	PCB ASS'Y SB30 PSU StandbyRoHS	1	
28	052-A05360I-E	AI PCB ASS'Y SB30 PSU Standby RoHS	1	
29	050-A05360I-E	SMD PCB ASS'Y SB30 PSU Standby RoHS	1	
30	052-A05360C-E	AI PCB ASS'Y SB30 POWER SURCE EUP RoHS	1	
31	050-A05360C-E	SMD PCB ASS'Y SB30 POWER SURCE EUP RoHS	1	
item	part no.	description	quantity	
1	050-A05360C-E	<b>SMD PCB ASS'Y SB30 POWER SURCE EUP RoHS</b>	1	
2	139-B106M50-E	LOWESR Capacitor 10uF 50V 105°C 20% TAP(RoHS)	1	
3	130-2B221KJ03-E	Capacitor 220pF 1000V ±10% TAP (RoHS)	1	
4	154-V4000BT3-E	Fuse 4A 250V VDE TimeLag AI RoHS	1	
5	190-16L431CLP1-E	IC TL431CLP (RoHS)	1	
item	part no.	description	quantity	refer
1	104-A05360C00V-E	<b>PCB OF SB30 PSU FR-4 1.6 mm 220*127 RoHS</b>	0,5	
2	141-C7105K50-E	SMD Capacitor 1206 X7R 1uF 50V 10% RoHS	1	C18,
3	141-C7474K50-E	SMD Capacitor 0.47uF 50V 1206 X7R 10% (RoHS)	1	C19,
4	141-C7104K50-E	SMD Capacitor 1206 X7R 0.1uF 50V 10% RoHS	2	C20,C27,
5	141-B0331J50-E	SMD Capacitor 330PF 50V 5% 0805 NPO (RoHS)	1	C21,
6	141-C7472K50-E	SMD Capacitor 0.0047U 50V 1206 X7R 10% RoHS	1	C26,
7	141-C7103K50-E	SMD Capacitor 10nF 50V 1% 1206 X7R (RoHS)	1	C29,
8	141-C7224K50-E	SMD Capacitor 1206 X7R 0.22uF 50V 10% (RoHS)	1	C31,
9	141-B7473K50-E	SMD Capacitor 0.047uF 50V X7R 0805 (RoHS)	1	C32,
10	141-B7102K50-E	Capacitor CAP SMD 0805 X7R 0.001uF ±10% 50V LF	1	C35,
11	197-03RLS4148S-E	*SMD diode RLS4148-TE11 ROHM 1206 RoHS	4	D5,D7,D9,D1
12	192-991T4401S-E	SMD transistor YG NPN MMBT4401 SOT-23 (RoHS)	1	Q5,
13	118-12061004F-E	SMD Resistor 1M 1206 1% (RoHS)	4	R1,R3,R4,R6
14	118-12060000F-E	SMD Resistor 0Ω 1206 1% (RoHS)	3	R22,R29,R54
15	118-12064704F-E	SMD Resistor 4.7MEG 1% (RoHS)	1	R23,
16	118-08052701J-E	SMD Resistor 2.7K 1/10W 0805 5% (RoHS)	1	R24,
17	118-08050000F-E	SMD Resistor 0Ω 0805 1% RoHS	1	R25,
18	118-12061000F-E	SMD Resistor 100Ω 1206 1% (RoHS)	2	R26,R31,
19	118-12062204J-E	SMD Resistor 2.20M 1206 5% (RoHS)	2	R27,R30,
20	118-08051004J-E	SMD Resistor 1M 0805 1/10W 5%(RoHS)	1	R28,
21	118-12065101J-E	SMD Resistor 5.1K 1206 5% RoHS	1	R32,
22	118-08051602F-E	SMD Resistor 0805 16K 1% RoHS	1	R33,
23	118-12064702J-E	SMD Resistor 47.0K 1206 5% (RoHS)	1	R34,
24	118-120610R0J-E	SMD Resistor 10.0Ω 1206 5% (RoHS)	1	R35,
25	118-12061002F-E	SMD Resistor 10K 1206 1% (RoHS)	1	R37,
26	118-08055601J-E	SMD Resistor 0805 5.6K 5% RoHS	1	R38,
27	118-12061500J-E	SMD Resistor 1206 150Ω ±5% RoHS	1	R39,
28	118-12062701J-E	SMD Resistor 2.70K 1206 5% (RoHS)	1	R40,
29	118-120675R0F-E	SMD Resistor 1206 75R 1% RoHS	1	R41,
30	118-12061001J-E	SMD Resistor 1206 1/4W 1K ±5%LF/RoHS	1	R42,
31	118-08052201J-E	SMD Resistor 2.2K 0805 1/10W 5% (RoHS)	1	R43,
32	118-08052702J-E	SMD Resistor 0805 27K ±5% (RoHS)	1	R44,
33	118-12064302F-E	SMD Resistor 1206 43K 1% RoHS	1	R45,
34	118-08054991F-E	SMD Resistor 4.99K 0805 1/10W 1%(RoHS)	1	R46,
35	118-12064700J-E	SMD Resistor 470Ω 1206 5% (RoHS)	1	R49,
36	190-16L6599DS-E	SMD IC ST L6599DTR SO-16N RoHS	1	U3,
37	199-6500130D-E	Diode 13V 500mW SMT ZMM524 3B LL-34 1206 RoHS	1	ZD1,
item	part no.	description	quantity	refer
1	052-A05360I-E	<b>AI PCB ASS'Y SB30 PSU Standby RoHS</b>	1	
2	175-1C04V01-E	Connector 4PIN PITCH=2.5mm (RoHS)	1	CN2,
3	175-9B04H221-E	4PIN PITCH=2.0mm 90 black RoHS	1	CN4,
4	175-9B04H220-E	4PIN PITCH=2.0mm 90 black RoHS	1	CN5,
5	130-3F102MB50-E	Capacitor Y1 1NF 20% 250V (RoHS)	1	CY1,
6	197-00SR1100-E	SR1100 (1A 100V) (RoHS)	1	D1,
7	197-000UF4007-E	Diode UF4007 (RoHS)	1	D2,
8	197-03SR160-E	Diode MIC SR160 DO-41 60V 1A TAP RoHS	1	D3,
9	122-113R0MUSD-E	DIP Inductor3uH E5-8 CR315-3ROMUZ RoHS	1	L2,
10	110-12184J5V-E	Resistor 180K 1/2W ±5% 5.0mm(RoHS)	1	R2,
11	150-SEE1611-E	Transformer EE16 SB30 CNTR ROHS	1	T1,
12	190-99Y274PN-E	DIP8 TNY274PN (RoHS)	1	U1,
13	190-99PC817C-E	IC PC817C(COSMO) (RoHS)	2	U2,U5
item	part no.	description	quantity	refer
1	050-A05360I-E	<b>SMD PCB ASS'Y SB30 PSU Standby RoHS</b>	1	
2	139-B105M50-E	LOWESR Capacitor 1uF 50V 105°C 20% TAP(RoHS)	1	C12,
3	130-2B222MJ03-E	Capacitor2200pF 1000V Y5P20% TAP RoHS	1	C3,
4	139-B476M25-E	Capacitor 47uF 25V RoHS	1	C34,
5	139-B226M50-E	LOWESR Capacitor 22uF 50V 105°C 20% TAP(RoHS)	1	C37,
6	135-B475M400-E	4.7uF 400V 105°C 10*16(RoHS)	1	C38,
7	139-B106M50-E	LOWESR Capacitor 10uF 50V 105°C 20% TAP(RoHS)	2	C6,C10,
8	139-B477M10-E	CapacitorLOWESR 470uF 10V 105°C 20% 8X12 TAP RoHS	1	C9,
9	190-16L431CLP1-E	IC TL431CLP (RoHS)	1	IC1,

10	121-CDTB1R5KS-E	Inductor .1.5UH.CD124TB1 R5KS RoHS.	1	L1,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	104-A05360100V-E	<b>PCB OF SB30 PSU Standby FR-4 1.6mm 155*77</b>	0,25	
2	141-C7104K50-E	SMD Capacitor 1206 X7R 0.1uF 50V 10% RoHS	1	C36,
3	141-B5105M50-E	SMD Capacitor 0805 Y5V 1uF 50V 20% (RoHS)	1	C39,
4	141-B7104K50-E	Capacitor CAP SMD 0805 X7R 0.1uF ±10% 50V LF/RoHS	5	C7,C11,C13,C16,C17,
5	141-B7103K50-E	SMD Capacitor 0.01U 50V X7R 0805 (RoHS)	1	C8,
6	197-03RLS4148S-E	*SMD diode RLS4148-TE11 ROHM 1206 RoHS	2	D12,D14,
7	197-600BAV103S-E	SMD diode Panjit BAV103 MINI-MELF 100mA 100V RoHS	2	D4,D11,
8	192-991BT3904S-E	SMT transistor MMBT3904 NPN 40V 200mA (RoHS)	1	Q6,
9	192-992T4403S-E	SMD transistor YG PNP MMBT4403 SOT-23 (RoHS)	2	Q7,Q4,
10	118-12060000F-E	SMD Resistor 0Ω 1206 1% (RoHS)	1	R11,
11	118-12066801J-E	SMD Resistor 1206 6.8K ±5% RoHS	1	R12,
12	118-120622R0J-E	SMD Resistor 22Ω 1206 5% (RoHS)	1	R13,
13	118-12068200J-E	SMD Resistor820Ω 1206 5%(RoHS)	1	R14,
14	118-08051001F-E	SMD Resistor 0805 1/10W 1K ±1% LF	1	R15,
15	118-08055602F-E	SMD Resistor 0805 56K 1% (RoHS)	1	R16,
16	118-08052942F-E	SMD Resistor 0805 29.4K 1% RoHS	1	R17,
17	118-08053301F-E	SMD Resistor 0805 3.3K 1% RoHS	1	R18,
18	118-08054301F-E	SMD Resistor 0.1W 1% 4.3K(RoHS)	1	R19,
19	118-12061004F-E	SMD Resistor 1M 1206 1% (RoHS)	1	R1A,
20	118-08051002F-E	SMD Resistor 10K 0805 1/10W ±1% LF	1	R21,
21	118-08050000F-E	SMD Resistor 0Ω 0805 1% RoHS	1	R47,
22	118-08051002J-E	SMD Resistor 0805 1/10W 10KΩ ±5% LF	1	R48,
23	118-08055101J-E	SMD Resistor 0805 5.1K 5% (RoHS)	1	R50,
24	118-12063002F-E	SMD Resistor 30KΩ 1206 1% (RoHS)	1	R51,
25	118-12062002J-E	SMD Resistor 20.0K 1206 5% (RoHS)	1	R52,
26	118-12064700J-E	SMD Resistor 470Ω 1206 5% (RoHS)	1	R53,
27	118-120610R0J-E	SMD Resistor 10.0Ω 1206 5% (RoHS)	2	R7,R9,
28	118-12062004J-E	SMD Resistor 2.0M 1206 5% RoHS	4	R8,R10,R20,R1B,
29	199-6500280SG-E	SMD diode MINI-MELF 500mW 2% 28V GLZJ30B(RoHS)	1	ZD2,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	050-A05360H-E	<b>SMD PCB ASS'Y SB30 Trigger BD EUP RoHS</b>	1	
2	175-9B14H220-E	14PIN PITCH=2.0mm 90°C black RoHS	1	CN160,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	104-A05360H00V-E	<b>PCB OF SB30 Trigger FR-41.6mm 175*121 RoHS</b>	0,0667	
2	141-B5225Z25-E	Capacitor CAP SMD 0805 Y5V 2.2uF +80/-20% 25V LF	1	C160,
3	141-B7106K16-E	SMDCapacitor 0805 10u/16V RoHS	2	C161,C166,
4	141-A7104K25-E	SMDCapacitor 0603 0.1UF 25V 10% X7R (RoHS)	5	C163,C168,C172,C180,C177
5	141-A7103K50-E	Capacitor CAP SMD 0603 X7R 0.01uF ±10% 50V LF	2	C164,C169,
6	118-08050000F-E	SMD Resistor 0Ω 0805 1% RoHS	1	C165,
7	141-A0470J50-E	Capacitor CAP SMD 0603 NPO 47pF ±5% 50V LF	1	C167,
8	141-A0471J50-E	Capacitor CAP SMD 0603 NPO 470pF ±5% 50V LF/RoHS	4	C170,C176,C178,C184,
9	141-B5106Z16-E	Capacitor CAP SMD 0805 10uF +80/-20% 16V LF/RoHS	2	C171,C179,
10	134-B226M16-E	SMD Capacitor 22uF 16V 3528±20% (RoHS)	4	C173,C175,C181,C183,
11	141-A7272J50-E	SMDCapacitor 0603 X7R 2.7nF 5% 50V (RoHS)	2	C174,C182,
12	192-991BT3904S-E	SMT transistor MMBT3904 NPN 40V 200mA (RoHS)	2	Q160,Q161,
13	118-06031002F-E	SMD Resistor 0603 1/16W 10K ±1% LF/RoHS	2	R160,R165,
14	118-06034753F-E	SMD Resistor 0603 475K 1% (RoHS)	2	R161,R166,
15	118-06034701J-E	SMD Resistor 0603 1/16W 4.7K ±5% LF(RoHS)	2	R162,R167,
16	118-06031003F-E	SMD Resistor 0603 1/16W 100K ±1% LF	2	R163,R168,
17	118-06032202J-E	SMD Resistor 0603 1/16W 22KΩ ±5% LF(RoHS)	3	R164,R169,R178,
18	118-06036340F-E	SMD Resistor 0603 1/16W 634 ±1% LF	2	R170,R179,
19	118-060391R0F-E	SMD Resistor 0603 1/16W 91 ±1% LF	4	R171,R177,R180,R186,
20	118-06035112F-E	SMD Resistor 0603 1/16W 51K1 ±1% LF RoHS	6	R172,R174,R176,R181,R183,R185,
21	118-06032801F-E	SMD Resistor 0603 2.8K 1%(RoHS)	2	R173,R182,
22	118-06033321F-E	SMD Resistor 0603 1/16W 3.32K ±1% LF	2	R175,R184,
23	118-06032402J-E	SMD Resistor 0603 24K ±5% (RoHS)	1	R187,
24	190-06NJU7181S-E	SMD IC NJRC NJU7181RB1 TVSP8 RoHS	2	U160,U161,
25	190-06NJM4580S-E	SMD IC NJRC NJM4580V SSOP-8 RoHS	2	U162,U163,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	050-A05360GT-E	<b>SMD PCB ASS'Y SB30 OP BD TOP RoHS</b>	1	
2	175-9B16V221-E	16PIN PITCH=2.0mm 180 black RoHS	1	CN206,
3	175-9B10V221-E	10PIN PITCH=2.0mm 180 black RoHS	1	CN209,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	050-A05360GB-E	<b>SMD PCB ASS'Y SB30 OP BD BOTTOM RoHS</b>	1	
2	141-A0471J50-E	Capacitor CAP SMD 0603 NPO 470pF ±5% 50V LF/RoHS	8	C201,C209,C219,C242,C275,C291,C304,C3
3	118-06031502F-E	SMD Resistor 0603 1/16W 15K ±1% LF	16	R202,R208,R212,R224,R232,R242,R247,R2
4	118-06031271F-E	SMD Resistor 0603 1.27K 1% RoHS	16	51,R265,R273,R281,R291,R295,R302,R305,
				R203,R207,R213,R223,R233,R239,R248,R2
				50,R266,R271,R282,R287,R296,R301,R306,

5	118-08055600J-E	SMD Resistor 0805 560Ω ±5% (RoHS)	8	R204,R215,R234,R249,R268,R284,R298,R3
6	118-06039101F-E	SMD Resistor 0603 1/16W 9.1Kohm 1% LF RoHS	8	R209,R226,R243,R255,R278,R292,R303,R3
7	190-06NJM4580S-E	SMD IC NJRC NJM4580V SSOP-8 RoHS	4	U201,U204,U207,U208,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	104-A05360G00V-E	<b>PCB OF SB30 OP BD FR-4 1.6mm 170*127 RoHS</b>	1	
2	141-A7222K50-E	SMD Capacitor 2200PF 0603 X7R10% 50V(RoHS)	16	C202,C204,C210,C212,C223,C225,C247,C2
3	141-A0101J50-E	Capacitor CAP SMD 0603 NPO100pF ±5% 50V LF/RoHS	8	55,C280,C285,C294,C297,C305,C315,C317,
4	141-A7104K25-E	SMDCapacitor 0603 0.1UF 25V 10% X7R (RoHS)	4	C203,C211,C224,C252,C283,C295,C306,C3
5	141-B7106K16-E	SMDCapacitor 0805 10u/16V RoHS	4	C205,C232,C286,C308,
6	141-A0471J50-E	Capacitor CAP SMD 0603 NPO 470pF ±5% 50V LF/RoHS	4	C206,C233,C287,C309,
7	141-A5225M10-E	SMD Capacitor 2.2uF 0603 Y5V10V 10%(RoHS)	8	C207,C213,C235,C262,C288,C300,C310,C3
8	118-06039101F-E	SMD Resistor 0603 1/16W 9.1Kohm 1% LF RoHS	8	C208,C214,C239,C270,C289,C303,C312,C3
8	118-06039101F-E	SMD Resistor 0603 1/16W 9.1Kohm 1% LF RoHS	8	R201,R211,R231,R245,R260,R279,R294,R3
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	050-A05360D-E	<b>SMD PCB ASS'Y SB30 Digital-Converter EUP RoHS</b>	1	
2	175-9B03V220-E	3PIN P:2.0mm 180 black RoHS	1	CN801A,
3	175-9B04V220-E	4PIN P:2.0mm 180 black RoHS	1	CN801B,
4	175-9B11V220-E	11PIN P:2.0mm 180 black RoHS	1	CN801C,
5	175-9B12H220-E	12PIN PITCH=2.0mm 90 black RoHS	1	CN802,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	104-A05360D00V-E	<b>PCB OF SB30 D-Converter FR-4 1.6mm185*148</b>	0,0667	
2	121-06036000N-E	SMD Inductor 600Ω 500mA 0603 (RoHS)	1	B801,
3	141-A7104K25-E	SMD Capacitor 0603 0.1UF 25V 10% X7R (RoHS)	2	C801,C806,
4	141-A0220J50-E	Capacitor CAP SMD 0603 NPO 22pF ±5% 50V LF	4	C802,C803,C804,C805,
5	141-B5106Z16-E	Capacitor CAP SMD 0805 10uF +80/-20% 16V LF/RoHS	1	C807,
6	118-06030000F-E	SMD Resistor 0603 0Ω ±1% (RoHS)	1	R802,
7	118-06031002J-E	SMD Resistor 0603 1/16W 10K ±5% LF (RoHS)	1	R804,
8	118-06032202J-E	SMD Resistor 0603 1/16W 22KΩ ±5% LF(RoHS)	1	R805,
9	118-060333R0J-E	SMD Resistor 0603 1/16W 33 ±5% LF	4	R806,R808,R809,R810,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	050-A05360F-E	<b>SMD PCB ASS'Y SB30 KEY BD EUP RoHS</b>	1	
2	175-9B10H220-E	10PIN PITCH=2.0mm 90 black RoHS	1	CN154,
3	175-9M16V110-E	FFC 1.25mm 16pin 180 white RoHS	1	CN152,
4	180-TSKHHAL-E	Switch SKHHAL (RoHS)	6	S151,S152,S153,S154,S155,S156,
5	195-401CA002-E	LED 3mm (RoHS)	1	LD154,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	104-A05360F00V-E	<b>PCB OF SB30 KEY BD FR-41.6mm 270*117 RoHS</b>	0,1	
2	118-060310R0F-E	SMD Resistor 0603 10Ω 1% (RoHS)	1	R175,
3	118-06031201F-E	SMD Resistor 0603 1/16W 1.2K ±1% LF	1	R179,
4	118-06031911F-E	SMT Resistor 0603 1.91K 1% (RoHS)	1	R183,
5	118-06033090F-E	SMD Resistor0603 309Ω 1% RoHS	1	R186,
6	118-06034701J-E	SMD Resistor 0603 1/16W 4.7K ±5% LF(RoHS)	2	R180,R181,
7	118-060347R0F-E	SMD Resistor 0603 1/16W 47 ±1% LF	1	R178,
8	118-06034991F-E	SMD Resistor 0603 1/16W 4.99K ±1% LF/RoHS	1	R182,
9	118-06038200F-E	SMD Resistor820Ω ±1%0603 RoHS	1	R184,
10	118-08051002F-E	SMD Resistor 10K 0805 1/10W ±1% LF	1	R185,
11	118-08055600J-E	SMD Resistor 0805 560Ω ±5% (RoHS)	1	R176,
12	118-08055601J-E	SMD Resistor 0805 5.6K 5% RoHS	1	R177,
13	134-B476M06-E	Capacitor CAP-TAN SMD #B SIZE 47uF ±20% 6.3V LF	3	C162,C163,C165,
14	141-A7104K25-E	SMDCapacitor 0603 0.1UF 25V 10% X7R (RoHS)	2	C164,C166,
15	192-991BT3904S-E	SMT transistor MMBT3904 NPN 40V 200mA (RoHS)	2	Q157,Q158,
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	051-A05360E01-E	<b>PCB ASS'Y SB30 IR BD EUP RoHS</b>	1	
2	<b>050-A05360ET01-E</b>	<b>SMD PCB ASS'Y SB30 IR BD TOP EUP RoHS</b>	1	
3	050-A05360EB01-E	<b>SMD PCB ASS'Y SB30 IR BD BOTTOM EUP RoHS</b>	1	
4	175-9B10H220-E	10PIN PITCH=2.0mm 90 black RoHS	1	CN154,
5	175-9M16V110-E	FFC 1.25mm 16pin 180 white RoHS	1	CN152,
6	180-TSKHHAL-E	Switch SKHHAL (RoHS)	6	S151,S152,S153,S154,S155,S156
7	195-401CA002-E	LED 3mm (RoHS)	1	LD154,
8	361-NYL-05237-0WAE	NYL LED 3.0*3.5*5.7MM RoHS	1	
9	162-50329002-E	FPC 1.25mm 16PIN 320MM 0.05*0.8 RoHS	1	TO CNI152,
10	310-ABS-05101-0BAE	Button 104.6*32*23.3 6key ABS black SB30 RoHS	1	
11	333-EVA-06084-0BAE	EVA 102*5*0.5mm RoHS	2	
12	333-EVA-06086-0BAE	EVA 80*5*0.5mm RoHS	1	
13	352-AM03006C1476-E	Screw T3.0*6	4	
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	050-A05360ET01-E	<b>SMD PCB ASS'Y SB30 IR BD TOP E UP RoHS</b>	1	
2	175-9B10V220-E	10PIN P:2.0mm 180 black RoHS	1	CN151,
3	190-99ECMA384-E	I-R RECEIVER ECM-A38-3VF4 LF	1	IR151,



item	part no.	description	quantity	refer
1	050-A05360EB01-E	SMD PCB ASS'Y SB30 IR BD BOTTOM EUP RoHS	1	
2	195-4FSC3528V-E	Diode SMD 3528 1SC3528VGB01MH06 RoHS	3	LD151,LD152,LD153,
item	part no.	description	quantity	refer
1	104-A05360E01V-E	PCB OF SB30 IR BD FR-41.6mm 190*136 RoHS	0,05	
2	118-06031002J-E	SMD Resistor 0603 1/16W 10K ±5% LF(RoHS)	4	R154,R155,R156,R173,
3	118-06032201F-E	SMD Resistor 0603 1/16W 2.2K ±1%LF	6	R157,R158,R159,R166,R168,R169,
4	118-06034702J-E	SMD Resistor 0603 1/16W 47K ±5% LF(RoHS)	9	R151,R152,R153,R160,R161,R162,R167,R171,R172,
5	141-A0101J50-E	Capacitor CAP SMD 0603 NPO100pF ±5% 50V LF/RoHS	1	C152,
6	141-A7104K25-E	SMD Capacitor 0603 0.1UF 25V 10% X7R(RoHS)	5	C153,C154,C157,C158,C159
7	142-SV476M10H-E	SMD Capacitor 47uF 10V 4*5.5mm85 20% RoHS	3	C155,C156,C161,
8	190-99117R50S-E	SMD semiconductor AZ1117R-5.0TRSOT89 RoHS	2	U151,U152,
9	192-113D4158CS-E	SMD transistor ON NTJD4158CT1GSOT-363 RoHS	3	Q151,Q152,Q153,
10	192-113S4405NS-E	SMD transistor ON NTJD4405NT1GSOT-363 RoHS	3	Q154,Q155,Q156,
11	197-00145015S-E	SMD SIGNAL DIODE ON NSI45015WT1G SOD-123 (RoHS)	9	Q157,Q158,Q159,Q160,Q161,Q162,Q163,Q164,Q165,
item	part no.	description	quantity	refer
1	050-A05360BT-E	SMD PCB ASS'Y SB30 DAMP TOPRoHS	1	
2	121-COMM33ROM6-E	SMD Inductor 33uH YC129RT-330MZRoHS	8	L504,L505,L508,L509,L511,L512,L515,L516,
3	121-COMM33ROM7-E	SMD Inductor 33uH YC104RT-330M-1Z RoHS	7	L501,L502,L506,L507,L510,L513,L514,
4	121-COMMB60RMS-E	SMD Inductor 60OHM 20% FBA865626 RoHS	1	T501,
5	142-GV107M35H9-E	SMD Capacitor100uF 35V 20% 105°C8*10.5 ESR:0.16 Ohm 600mA Ro	7	C503,C522,C542,C577,C593C633,
6	142-GV337M35H9-E	SMD Capacitor330uF 35V 20% 105°C10*10.2 ESR:0.06 Ohm 1100mA	2	C552,C629,
7	120-1000003-E	Inductor 10W AI YT-C3104-0051CRHW354708LTBS LF	8	FB502,FB509,FB510,FB511,FB516,FB521,FB523,FB525,
8	135-B477M35A-E	Capacitor 470uF 35V±20% LOWESR TAP RoHS	1	C533,
9	162-5058D001-E	wire UL1007 16AWG 580mm 2PIN 3.96mm HOUSING	1	CN504,
10	162-5058D002-E	wire UL1007 24AWG 580mm 4PIN 2.5mmHOUSING	1	CN503,
11	175-1C04V01-E	Connector 4PIN PITCH=2.5mm (RoHS)	3	CN506,CN508,CN509,
12	175-1C10V01-E	Connector 10PIN PITCH=2.5mm(RoHS)	1	CN507,
13	175-9F10H220-E	10PIN PITCH=2.54mm 90 black RoHS	1	CN504,
14	175-9F14H220-E	14PIN PITCH=2.54mm 90 black RoHS	1	CN501,
item	part no.	description	quantity	refer
1	141-B7104K50-E	Capacitor CAP SMD 0805 X7R 0.1uF ±10% 50V LF/RoHS	28	C501,C510,C538,C544,C557,C572,C575,C589,C599,C622,C630,C639,C648,C650,C502,C523,C541,C553,C567,C581,C592,C596,C611,C621,C632,C636,C661,C665,
2	141-A7474K25-E	SMD Capacitor 0603 XR7 0.47UF 25V 10% RoHS	8	C504,C520,C543,C573,C594,C617,C634,C6
3	141-B5105M50-E	SMD Capacitor 0805 Y5V 1uF 50V 20% (RoHS)	2	C505,C514,
4	141-A7104K50-E	Capacitor CAP SMD 0603 X7R 0.1uF ±10% 50V LF	17	C507,C517,C521,C526,C529,C530,C566,C574,C586,C588,C606,C607,C643,C649,C664,C506,C518,
5	141-C7105K50-E	SMD Capacitor 1206 X7R 1uF 50V 10% RoHS	15	C508,C519,C536,C537,C554,C569,C582,C583,C597,C613,C615,C616,C637,C657,C659,C509,C511,C513,C515,C545,C549,C555,C558,C560,C562,C564,C598,C600,C602,C608,C623,C627,C638,C640,C641,C645,C656,
6	141-B7106K16-E	SMDCapacitor 0805 10u/16V RoHS	22	C512,C559,C585,C601,C644,C662,
7	141-B7683K50-E	SMD Capacitor 68nF 50V 10% 0805 X7R (RoHS)	6	C516,
8	141-B5225Z25-E	Capacitor CAP SMD 0805 Y5V 2.2uF +80/-20% 25V LF	1	C524,
9	141-C7104KA0-E	SMD Capacitor 1206 X7R 0.1uF 100V ±10% (RoHS)	1	C525,
10	141-C9225K25-E	SMD Capacitor 2.2uF 1206 X5R 25V +/-10% RoHS	1	C531,
11	141-A7222K50-E	SMD Capacitor 2200PF 0603 X7R10% 50V(RoHS)	1	C535,C584,C614,C658,
12	141-C7106K16-E	Capacitor SMD 1206 X7R 10uF 16V ±10% RoHS	4	C539,C540,C578,C579,C618,C619,C652,C653,C546,C547,C570,C571,C624,C625,C646,
13	141-C7474K50-E	SMD Capacitor 0.47uF 50V 1206X7R 10% (RoHS)	16	C548,C563,C626,C642,C556,C631,
14	141-A5225M10-E	SMD Capacitor 2.2uF 0603 Y5V10V10%(RoHS)	6	C550,C576,C628,C651,
15	141-B7103K50-E	SMD Capacitor 0.01U 50V X7R 0805 (RoHS)	4	C561,C603,C655,
16	141-A0102J50-E	SMD Capacitor 0603 NPO 50V 1.0nF(RoHS)	3	C565,C610,C660,
17	141-B7105K25-E	SMD Capacitor 1U 25V 0805 X7R 10% (RoHS)	3	D501,
18	197-6SX36S-E	Diode SMA SX36 60V 3.0A(RoHS)	1	D502,
19	197-0S00SS14-E	SMD diode SS14 TOSHIBA (RoHS)	1	FB501,
20	121-0805B601N-E	Bead SMD 0805 600 ohms2CB201209A601 (RoHS)	1	FB504,
21	121-06036000N-E	SMD Inductor 600Q 500mA 0603 (RoHS)	1	Q501,Q505,
22	192-992BT3906T1S-E	SMD transistor MMBT3906LT1 (RoHS)	2	Q502,Q503,Q504,Q506,Q507,Q508,Q509,Q510,Q511,Q512,Q513,Q514,Q515,Q516,Q51
23	192-991BT3904S-E	SMT transistor MMBT3904 NPN 40V 200mA (RoHS)	15	Q518,
24	192-09RK7002S-E	SMD triode.RK7002T116 SOT-23.ROHM RoHS	1	R501,
25	118-08054704J-E	SMD Resistor 0805 1/10W 4.7M ±5% (RoHS)	1	R503,R504,R517,R518,
26	118-06031201F-E	SMD Resistor 0603 1/16W 1.2K ±1% LF	4	R505,R508,R512,R516,R519,R533,R534,R536,R541,R545,R550,R552,R562,R570,R572,R576,R587,R588,R595,R597,R602,R603,R606.R607.R609.R617.R591.
27	118-06034702F-E	SMD Resistor 0603 47K 1% (RoHS)	27	

28	118-06031001F-E	SMD Resistor 0603 1/16W 1K ±1% LF/RoHS	2	R506,R520,
29	118-06031002F-E	SMD Resistor 0603 1/16W 10K ±1% LF/RoHS	24	R507,R509,R513,R515,R535,R539,R542,R544,R549,R551,R557,R561,R569,R571,R573,R575,R594,R596,R599,R601,R605,R608,R610,R611,
30	118-06032372F-E	SMD Resistor 0603 23.7K 1% RoHS	1	R510,
31	118-06032202F-E	SMD Resistor 0603 1/16W 22K ±1% LF	2	R511,R521,
32	118-06034701F-E	SMD Resistor 0603 4.7K 1% (RoHS)	6	R514,R543,R558,R574,R600,R613,
33	118-06030000F-E	SMD Resistor 0603 0Ω ±1% (RoHS)	6	R523,R537,R554,R585,R589,R623,
34	118-120610R0J-E	SMD Resistor 10.0Ω 1206 5% (RoHS)	8	R524,R525,R563,R566,R578,R579,R618,R619,
35	118-08053303J-E	SMD Resistor 330K 0805 5% (RoHS)	8	R526,R529,R559,R560,R580,R583,R614,R615,
36	118-08051003F-E	SMD Resistor 100K 0805 1/10W 1% (RoHS)	8	R527,R528,R564,R565,R581,R582,R619,R620,
37	118-08053R30J-E	SMD Resistor 3.3R 5% 0805 (RoHS)	4	R532,R548,R586,R604,
38	118-20101001J-E	SMD Resistor 2010 1kΩ 5% (RoHS)	5	R540,R547,R553,R567,R584,
39	118-06037502F-E	SMD Resistor 0603 1/16W 75K ±1% LF	3	R546,R577,R611,
40	118-06032672F-E	SMD Resistor 0603 26.7K 1% RoHS	1	R555,
41	118-06031372F-E	SMD Resistor 0603 13.7K 1% (RoHS)	1	R556,
42	118-06031202F-E	SMD Resistor 0603 1/16W 12K ohm ± 1% LF RoHS	1	R592,
43	118-06031502F-E	SMD Resistor 0603 1/16W 15K ±1% LF	2	R610,R622,
44	121-COMMB60RMS-E	SMD Inductor 60OHM 20% FBA865626 RoHS	5	T502,T503,T504,T505,T506,
45	190-9915112FPS-E	SMD IC RENESAS R2A15112FP HTQFP-48 RoHS	4	U501,U502,U504,U506,
46	190-9915108SPS-E	SMD IC RENESAS R2A15108SPHSSOP52 RoHS	2	U503,U505,
47	199-6500051SJ-E	SMD diode MINI-MELF 500mW5% 5.1V ZMM5231B(RoHS)	14	ZD501,ZD502,ZD503,ZD504,ZD505,ZD506,ZD507,ZD508,ZD509,ZD510,ZD511,ZD512,ZD513,ZD514,
48	104-A05360B00V-E	<b>PCB OF SB30 DAMP FR-41.6mm 206*117.5</b>	0,5	
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	142-GV107M35H9-E	SMD Capacitor 100uF 35V 20% 105°C8*10.5 ESR:0.16 Ohm 600mA RoHS	7	C503,C522,C542,C577,C593,C620,C633,
2	142-GV337M35H9-E	SMD Capacitor 330uF 35V 20% 105°C 10*10.2 ESR:0.06 Ohm 1100mA	2	C552,C629,
3	121-COMM33R0M7-E	SMD Inductor 33uH YC104RT-330M-1Z RoHS	7	L501,L502,L506,L507,L510,L513,L514,
4	121-COMM33R0M6-E	SMD Inductor 33uH YC129RT-330MZ RoHS	8	L504,L505,L508,L509,L511,L512,L515,L516,
5	121-COMMB60RMS-E	SMD Inductor 60OHM 20% FBA865626 RoHS	1	T501,
6	050-A05360BB-E	SMD PCB ASS'Y SB30 DAMP BOTTOM RoHS	1	
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
	050-A05360AT-E	<b>SMD PCB ASS'Y SB30 DSP-MCU TOP RoHS</b>	1	
	050-A05360AB-E	<b>SMD PCB ASS'Y SB30 DSP-MCU TOP RoHS</b>	1	
	051-A05360D-E	<b>PCB ASS'Y Digital-ConverterSB30 EUP RoHS</b>	1	
	050-A05360D-E	<b>SMD PCB ASS'Y SB30 Digital-Converter EUP RoHS</b>	1	
	051-A05360G-E	<b>PCB ASS'Y SB30 OP BD EUP RoHS</b>	1	
	050-A05360GT-E	<b>SMD PCB ASS'Y SB30 OP BD TOPRoHS</b>	1	
	050-A05360GB-E	<b>SMD PCB ASS'Y SB30 OP BDBOTTOM RoHS</b>	1	
	051-A05360H-E	<b>PCB ASS'Y SB30 Trigger BD EUPRoHS</b>	1	
	050-A05360H-E	<b>SMD PCB ASS'Y SB30 Trigger BDEUP RoHS</b>	1	
	175-9B14H220-E	14PIN PITCH=2.0mm 90 black RoHS	1	
	120-1000003-E	Inductor 10W AI YT-C3104-005 1CRHW354708LTBS LF	1	
	123-11RH518215-E	Ferrite core K5B RH 5*18*2.15 RoHS	1	
	145-118432000-E	DIP crystal 18.432MHz(HC-49s)/+/-30ppm@ 20pf RoHS	1	
	145-124576000-E	DIP crystal 24.576MHz (HC-49s) /- 30ppm@20pf (RoHS)	1	
	163-11009-E	Cable tie 100mm (RoHS+REACH)	1	
	174-0AVG050-E	SPDIF INPUT socket OPT +COAXIAL RCA	1	
	174-OSDR401-E	RCA PIN JACK SD-R-1602-401 2P RoHS	1	
	175-9B04V06-E	Connector 4PIN P=2.0mm 180°CRoHS	1	
	175-9B10V220-E	10PIN P:2.0mm 180 black RoHS	1	
	175-9B16V220-E	16PIN P:2.0mm 180 black RoHS	1	
	175-9C03V02-E	Connector 3PIN P=2.54mm180°C RoHS	1	
	175-9C08V04-E	4PINX2 P=2.54mm 180°CRoHS	1	
	175-9M16V110-E	FFC 1.25mm 16pin 180 RoHS	1	
	180-SMS4014V-E	SLIDE SWITCH MS-4014VP-VG4(RoHS)	1	
	180-SS12D01G4-E	Switch SK12D01G4-GP SB15 (RoHS)	1	
	188-ASDWLAN30-E	SB15 cable ASDWLAN-30(RoHS)	1	
	188-M8810LR02-E	AM8810 STD_11G_LR(TX) Slave Mode(RoHS)-Harman	1	
	333-EVA-06087-0BAE	EVA 10*10*6MMRoHS	1	
	362-FE-05134-0LAE	11.1*11.7*8.6MM bracket T=0.8MM RoHS	1	
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	141-A0220J50-E	Capacitor CAP SMD 0603 NPO 22pF ±5% 50V LF	3	C202,C203,C204,
2	142-AV476M06-E	SMD Capacitor ±20% 47U 6.3V4.3*4.3mm RoHS	2	C243,C284,
3	141-A7103K50-E	Capacitor CAP SMD 0603 X7R 0.01uF ±10% 50V LF	2	C246,C249,
4	142-SV107M06H-E	SMD Capacitor 100uF 6.3V 20% 5*5.5(RoHS)	1	C296,
5	141-B7106K16-E	SMDCapacitor 0805 10u/16V RoHS	1	C330,
6	141-A7104K50-E	Capacitor CAP SMD 0603 X7R 0.1uF ±10% 50V LF	1	C333,
7	142-AV107M35H-	SMD Capacitor 100UF 35V (RoHS)	1	C359,
8	142-GV477M10H-E	SMD Capacitor 470uF 10V20% 105°C 8*10.5(RoHS)	1	C373,
9	142-AV227M16H-E	SMD Capacitor 16V 220UF 20% 6mm*7mm (RoHS)	1	C374,
10	134-D476M10-E	SMD Capacitor D 7343 47uF 10V RoHS	1	C376,
11	141-A7182K50-E	Capacitor CAP SMD 0603 X7R 1.8nF ±10% 50V LF	1	C378,

12	141-B7106K10-E	Capacitor CAP SMD 0805 X7R 10uF 10V ±10% (RoHS)	1	C383,
13	197-6SS0540-E	SMD diode SS0540 40V0.5A SOD123 RoHS	1	D205,
14	121-06036000N-E	SMD Inductor 600Q 500mA 0603 (RoHS)	4	FB201,FB221,FB225,R269,
15	121-0603B121N01-E	SMD BEAD 120ohm/1A 2CB160808A121-1AS(RoHS)	1	FB227,
16	121-COMM33ROM7-E	SMD Inductor 33uH YC104RT-330M-1Z RoHS	1	L201,
17	121-COMM22ROM6-E	SMD Inductor 22uH YC129RT-220MZ RoHS	1	L202,
18	192-991BT3904S-E	SMT transistor MMBT3904 NPN 40V 200mA (RoHS)	1	Q201,
19	118-06034701F-E	SMD Resistor 0603 4.7k 1% (RoHS)	1	R227,
20	118-06032002F-E	SMD Resistor 0603 20.0K1/16W 1% (RoHS )		R246,
21	118-060333R0F-E	SMD Resistor 0603 1/16W 33 ±1% LF	10	R256,R270,R316,R318,R320,R321,R335,R337,R340,R341,
22	118-06031002F-E	SMD Resistor 0603 1/16W 10K ±1%LF/RoHS	2	R261,R264,
23	121-0603B301N2-E	SMD common bead 0603 300R/100MHZ TDK MMZ1608D301B (RoHS)	1	R267,
24	118-06035600J-E	SMD Resistor 0603 560Q ±5% (RoHS)		R342,
25	118-06030000F-E	SMD Resistor 0603 0Ω ±1% (RoHS)	2	R359,R360,
26	111-A060333R0J-E	Osolated resistor network RP-SMD 0603 1/16W33 ±5% 8P4R V8V LF	1	RN213,
27	190-99CS49834AS-E	SMD IC CS49834-CQZR CIRRUS LOGIC144-Pin LQFP TW RoHS	1	U202,
28	190-99CS42528S-E	SMD IC CS42528-CQZR CIRRUS LOGIC64-Pin LQFP TW RoHS	1	U205,
29	186-AA0CT25VFS-E	FIRMWARE OF SB30 CNTR DSP RoHS	1	U206,
30	190-99PCT25VFS-E	SMD IC PCT25VF032B-80 SO-8 RoHS	1	U206,
31	185-AA0CT25VFS-E	FIRMWARE OF SB30 CNTR DSP RoHS	1	
32	190-99T24C02S-E	IC.AT24C02 SMD(RoHS)	1	U210,
33	190-99CS4344S-E	SMD IC CS4344-CZZR CIRRUS(RoHS)	2	U213,U217,
34	186-AL082G516S-E	MCU FIRMWARE OF SB30 CNTR RoHS	1	U214,
35	190-9982G516S-E	SMD semiconductor MCU MPC82G516AF PQFP-44 2.7V-5.5V MEGA	1	U214,
36	185-AL082G516S-E	MCU FIRMWARE OF SB30 CNTR RoHS	1	
37	050-A05360AB-E	SMD PCB ASS'Y SB30 DSP-MCU BOTTOM RoHS	1	
item	part no.	description	quantity	refer
1	104-A05360A00V-E	<b>PCB OF SB30 DSP-MCU FR -4 1.6mm 243*108</b>	0,5	
2	111-A06030000J-E	Osolated resistor network RP-SMD 0603 1/16W 0 ±5% 8P4R V8Vx4*PANASONIC		RN214,
3	111-A06031002J-E	Osolated resistor network RP-SMD 0603 1/16W 10K ±5% 8P4R V8V LF	2	RN215,RN216,
4	118-06030000F-E	SMD Resistor 0603 0Ω ±1% (RoHS)		R24,
5	118-06031001F-E	SMD Resistor 0603 1/16W 1K ±1% LF/RoHS		R347,R27,
6	118-06031002F-E	SMD Resistor 0603 1/16W 10K ±1% LF/RoHS	16	R26,R222,R252,R254,R275,R276, R288,R289,R290,R326,R329,R332,R343,R344,R353,R357,
7	118-06031003F-E	SMD Resistor 0603 1/16W 100K ±1% LF	2	R28,R324,
8	118-06031004F-E	SMD Resistor 0603 1MEG 1% (RoHS)	2	R240,R319,
9	118-060310R0F-E	SMD Resistor 0603 10Q 1% (RoHS)	2	R338,R339,
10	118-06031602J-E	SMD Resistor0603 1/16W16K ±5% LF RoHS	2	R14,R356,
11	118-06032002F-E	SMD Resistor 0603 20.0K1/16W 1% (RoHS)	1	R330,
12	118-06032201F-E	SMD Resistor 0603 1/16W 2.2K ±1%LF	2	R280,R283,
13	118-06032202F-E	SMD Resistor 0603 1/16W 22K ±1% LF	9	R312,R313,R314,R315,R328,R331,R333,R355,R358,
14	118-06032372F-E	SMD Resistor 0603 23.7K 1% RoHS	1	R346,
15	118-06032551F-E	SMD Resistor 0603 2.55K 1% RoHS	1	R286,
16	118-06033301F-E	SMD Resistor 0603 1/16W 3.3K ±1% LF	4	R205,R206,R216,R219,
17	118-06033321F-E	SMD Resistor 0603 1/16W 3.32K ±1% LF	1	R350,
18	118-060333R0F-E	SMD Resistor 0603 1/16W 33 ±1% LF	5	R257,R258,R297,R299,R300,
19	118-06033402F-E	SMD Resistor 0603 34.0K ±1% (RoHS)		R351,
20	118-06033601F-E	SMD Resistor 0603 3.6K ±1%(RoHS)		R323,
21	118-06034701F-E	SMD Resistor 0603 4.7k 1% (RoHS)		R285,
22	118-06034702F-E	SMD Resistor 0603 47K 1% (RoHS)		R327,
23	118-06034752F-E	SMD Resistor 0603 1/16W 47.5K ±1% LF/RoHS		R325,
24	118-06035600J-E	SMD Resistor 0603 560Q ±5% (RoHS)		R322,R334,
25	118-06036802J-E	RES CHIP 0603 68K 1/16W ±5%(RoHS)		R348,
26	118-060375R0F-E	SMD Resistor 0603 1/16W 75 ±1% LF		R25,
27	118-06038451F-E	SMD Resistor 8.45K 1% (RoHS)		R349,
28	118-08057871F-E	SMD Resistor 0805 7.87K 1/10W 1%RoHS		R10,R15,
29	118-08058451F-E	SMD Resistor 0805 8.45K 1% RoHS		R11,R12,
30	121-06036000N-E	SMD Inductor 600Q 500mA 0603(RoHS)	14	FB202,FB203,FB204,FB205,FB206,FB207,FB208,FB210,FB211,FB212,FB213,FB214,FB215,FB226,FB209,
31	121-0603B301N2-E	SMD common bead 0603 300R/100MHZ TDK MMZ1608D301B (RoHS)	5	R200,R244,R259,R352,R354,
32	121-080510R0K-E	Inductor SMD 0805 10uH/680mA ±10% NL252018F100K LF		L1,
33	121-0805B601N-E	Bead SMD 0805 600 ohms 2CB201209A601 (RoHS)	7	FB216,FB217,FB218,FB219,FB220,FB222,FB223,
34	141-A0101J50-E	Capacitor CAP SMD 0603 NPO100pF ±5% 50V LF/RoHS	4	C9,C11,C10,C12,
35	141-A0121J50-E	Capacitor CAP SMD 0603 NPO 120pF ±5% 50V LF/RoHS		C381,
36	141-A0180J50-E	Capacitor CAP SMD 0603 NPO 18pF ±5% 50V LF(RoHS)	4	C234,C238,C343,C344,
37	141-A0220J50-E	Capacitor CAP SMD 0603 NPO 22pF ±5% 50V LF	1	C201,
38	141-A0221J50-E	Capacitor CAP SMD 0603 NPO 220pF ±5% 50V LF	1	C366,
39	141-A0471J50-E	Capacitor CAP SMD 0603 NPO 470pF ±5% 50V LF/RoHS	2	C368,C369,
40	141-A7103K50-E	Capacitor CAP SMD 0603 X7R0.01uF ±10% 50V LF	6	C251,C254,C257,C259,C261,C264,

41	141-A7104K50-E	Capacitor CAP SMD 0603 X7R0.1uF ±10% 50V LF	59	C22,C23,C24,C311,C320,C322,C324,C326,C334,C337,C339,C341,C345,C347,C349,C351,C353,C357,C358,C361,C362,C363,C371,C372,C377,C379,C226,C227,C228,C237,C241,C244,C245,C248,C250,C253,C256,C258,C260,C263,C265,C266,C268,C269,C271,C272,C273,C274,C276,C277,C278,C279,C281,C292,C293,C299,C327,C282,C370.
42	141-A7182K50-E	Capacitor CAP SMD 0603 X7R1.8nF ±10% 50V LF	2	C352,C367,
43	141-A7222K50-E	SMD Capacitor 2200PF 0603 X7R10%50V(RoHS)	1	C301,
44	141-A7334K16-E	SMD Capacitor 0.33uF 0603 X7R16V10%(RoHS)	1	C342,
45	141-A7473K50-E	Capacitor CAP SMD 0603 X7R 47nF ±10% 50V(RoHS)	2	C364,C365,
46	141-A7562K50-E	SMT Capacitor 0603 X7R 5.6NF10% 50V(RoHS)	1	C380,
47	141-B5225Z25-E	Capacitor CAP SMD 0805 Y5V2.2uF +80/-20% 25V LF	2	C328,C329,
48	141-B5475M25-E	SMDCapacitor 4.7uF 25V 0805 Y5V±20% RoHS	1	C375,
49	141-B7106K10-E	Capacitor CAP SMD 0805 X7R 10uF 10V ±10% (RoHS)	1	C313,
50	141-B7106K16-E	SMDCapacitor 0805 10u/16V RoHS	13	C229,C230,C231,C236,C240,C267,C290,C298,C354,C355,C356,C360,C382,
51	141-B7473K50-E	SMD Capacitor 0.047uF 50V X7R0805 (RoHS)	1	C302,
52	141-B7475K10-E	SMD Capacitor 0805 X7R 4.7uF ±10% 10V (RoHS)	1	C21,
53	141-C7106K16-E	CapacitorSMD 1206 X7R 10uF 16V ±10% RoHS	9	C321,C325,C336,C338,C340,C346C348,C350,C323,
54	190-13TPS54283S-E	SMD IC TI TPS54283PWPR HTSSOP-14 RoHS	1	U216,
55	190-99111750S-E	SMD SOT-223 WT1117AN out put 5V(RoHS)	1	U209,
56	190-99AZ1117HS-E	SMD IC AZ1117H-3.3V SOT-223 UTC (RoHS)	2	U211,U215,
57	192-991BT3904S-E	SMT transistor MMBT3904 NPN 40V 200mA (RoHS)	2	Q1,Q2,
58	197-6SS0540-E	SMD diode SS0540 40V0.5A SOD123 RoHS	1	D202,
59	197-6SX36S-E	Diode SMA SX36 60V 3.0A (RoHS)	2	D203,D204,
60	199-2500190D-E	Diode 19V 500mW ZMM5249 SOD-123 RoHS	1	ZD201,

# HK SB 30 subwoofer parts list.

item	part no.	description	quantity	refer
1	152-V60202603-E	power plug	1	
2	156-H220050-E	heat shrink tube 22 $\mu$ 50mm (RoHS)	1	
3	162-5032D004-E	UL1007 26AWG 320mm P3-I20001 M3-I25002+HEASHRINK TUBE+130FC	1	
4	162-A013D011-E	Cable 130mm BLK/WHT UL1617 18AWG3PIN 3.96Housing#205 0.8T term	1	
5	163-11009-E	NYLON TIE 100mm CLEAR COLOR (RoHS+REACH)	1	
6	180-P3024DB-E	SWITCH ROCKER 3024-DB	1	
7	311-ABS-00028-0BAE	KNOB 46077-W	1	
8	335-NYL-00002-0BAE	POWER CORD-STRAIN RELIEF 4K-4 NO-BB(RoHS)	2	
9	351-AM03006B1324-E	MACHINE SCREW-SELF TAPPED M3*6 PHILIPS HEAD (RoHS)	4	
10	362-NYL-05104-0WAE	STAND-OFF M3.0*10.5mm	2	
11	362-CU-05098-0YAE	STANDOFF 10.5*6mm RoHS	2	
12	355-P0306242-E	M3 SPRING WASHER ID3.2 OD5.6 T0.8(RoHS)	3	
13	354-HM03044-E	M3 NUT HEX (RoHS)	3	
14	351-AM03012A090-E	M3*12 MACHINE SCREW PHILIPS HEAD (RoHS)	3	
15	351-AM03006A069-E	M3*6 MACHINE SCREW PHILIPS HEAD (RoHS)	5	
16	162-A042D004-E	CABLE420mm RED/BLK UL2468 18AWG 2PIN3.96Housing#250#205+FOA	1	CN2
17	051-A05363B-E	PCB ASS'Y SUB SB30/120VROHSPower-SOURCE RoHS	1	
18	302-AL-05336-0BAE	AMP PANEL 200*175*2.5MM	1	
19	323-AL-05202-0LAE	HEATSINK 59.48*49.38*20mm	1	
20	362-NYL-05112-0LAE	STANDOFF 5*3.2 H=3.3mm	2	
21	306-ABS-05175-0BAE	rear enclosure 198*173*70mm ABS765A BLK RoHS	1	
22	051-A05364A-E	PCB ASS'Y SB30 SUB AMP RoHS	1	
item	part no.	description	quantity	refer
1	123-11RH518215-E	Ferrite core K5B RH 5*18*2.15 RoHS	1	
2	163-11009-E	nylon tie 100mm clear color (RoHS+REACH)	1	
3	188-ASDWLAN30-E	SB15 antenna ASDWLAN-30(RoHS)	1	
4	120-1000003-E	Inductor 10W AI YT-C3104-0051CRHW354708LTBS LF	1	B1,
5	139-A108M63-E	Capacitor 1000uF 63V $\pm$ 20% (16X31.5) (RoHS)	1	C17,
6	129-A684JA03-E	Capacitor 0.68U 63V $\pm$ 5% MSC TAP (RoHS)	1	C9,
7	162-5012D021-E	wire 120mm Red/Black UL1007 18AWG 2PIN 3.96Housing+5.0 ROHS	1	CN1,
8	175-1D02V01-E	Connector 2PIN PITCH=3.96mm (RoHS)	1	CN2,
9	175-9C04V03-E	Connector 4PIN P=2.54mm 180°C (RoHS)	1	CN4,
10	175-9B03V220-E	3PIN P:2.0mm 180 black RoHS	1	CN5,
11	162-5010D020-E	wire 100mm UL1007 24AWG 4PIN 2.5Housing+2.5 RoHS	1	CN6,
12	175-9B11V220-E	11PIN P:2.0mm 180 black RoHS	1	CN7,
13	175-9B04V220-E	4PIN P:2.0mm 180 black RoHS	1	CN8,
14	175-1B03V01-E	Connector 3PIN PITCH=2.0mm (RoHS)	1	CN9,
15	362-FE-00041-0LAE	PCB bracket 11.75*8.5*12.5H (RoHS)	1	J1,
16	122-14220K06501-E	FERRITE CORE SD-500-311A CD216 19P-220KUS(RoHS)	2	L1,L2,
17	180-SMS4014V-E	SLIDE SWITCH MS-4014VP-VG4 (RoHS)	1	S1,
18	180-TMS7210V-E	SWITCH SLIDE 6PIN MS7210V (RoHS)	1	SW1,
19	115-H104B107-E	Resistor 100KB (RoHS)	1	VR1,
20	145-11228800-E	DIP ceramic oscillator 12.288000MHz 49S GB1220001 RoHS	1	XL1,
21	188-8810STD01-E	AM8810 (RX) Master Mode(RoHS)	1	
item	part no.	description	quantity	refer
1	050-A05364B-E	SMD PCB ASS'Y SUB SB30/230VPOWER-SOURCE RoHS	1	
2	193-0S018012-E	Isolation gasket OTHER SILCON18mm*12mm (RoHS)	2	
3	351-AM03008A078-E	M3*8 screw (RoHS+REACH)	7	
4	361-NYL-00054-0LAE	Isolation gasket (SW06002) (RoHS)	2	
5	162-10059001-E	wire 50mm WHITE UL1007 AWG266:6 (RoHS)	1	1,2,
6	197-000GBU406-E	Rectifier 4A 600V GBU406 RoHS	1	BR1,
7	135-C127M200-E	Capacitor 120uF 200V 105°C 16X25 LS:7.5mm $\pm$ 20% (RoHS)	2	C1,C4
8	135-B477M50A-E	Capacitor 105°C 470uF $\pm$ 20%50V LOWESR TAP RoHS	2	C21,C22,
9	132-105KB54-E	Capacitor 1uF 250V $\pm$ 10% LS:15mm RoHS	1	C28,
10	175-1D03V02-E	Connector 3PIN JWT A3963 (RoHS)	1	CN1,

11	175-1C04V01-E	Connector 4PIN PITCH=2.5mm (RoHS)	1	CN2,
12	175-1D02V01-E	Connector 2PIN PITCH=3.96mm(RoHS)	1	CN4,
13	122-14152K036-E	Filter UU-98 0703 RoHS	1	CT1,
14	132-334KB74-E	Capacitor 0.33uF 275V +/-10% LS=15mm (RoHS)	1	CX1,
15	132-224KB54-E	Capacitor 0.22uF 250V AC+/-10%W18*H13.5*T5.0 P=15mm	1	CX2,
16	130-3F101MD00-E	Y1 Capacitor 100P Y5U20% 250V (RoHS)	1	CY1,CY2,
17	130-3F222MD00-E	Capacitor 2200PF 400V ±20% Y1(RoHS)	1	CY3,
18	130-3F102MB50-E	Capacitor Y1 1NF 20% 250V (RoHS)	1	CY4,
19	197-03SR160-E	Diode MIC SR160 DO-41 60V 1ATAP RoHS	1	D1,
20	197-60MBR1200-E	Diode Panjit MBR1200 DO-41200V1A RoHS	1	D4,
21	197-30SF16-E	Rectifier SF16 (RoHS)	1	D6,
22	197-00MUR1220CT-E	Diode MUR1220CT HI-SEMICON200V 12A TO220(RoHS)	1	D8,
23	150-STF16021-E	Transformer TF-1602-1 EEL-16DT1 0804/0805/0703 (RoHS)	1	DT1,
24	122-113R0MUSD-E	DIP Inductor 3uH E5-8 CR315-3R0MUZ RoHS	1	L1,
25	122-14171K0700-E	Inductor FERRITE CORE 170uH 10% :CS229125 RoHS	1	L2,
26	122-14124M05001-E	FERRITE CORE 12mH 20% 0.5mm EMI用(RoHS)	2	LF1,LF2,
27	192-993A14N50C-E	Transistor IPS FTA14N50C TO-220F500V14A RoHS	2	Q6,Q7,
28	110-10510J5V-E	Resistor 51Ω 1W ±5% 5.0mm(RoHS)	1	R23,
29	110-12104J5V-E	Resistor 100KΩ 1/2W 5% 5.0mm RoHS	1	R3,
30	150-SEE1607-E	Transformer EE16 SB30 SUB RoHS	1	T1,
31	150-SERL2803-E	Transformer ERL28(RoHS)	1	T2,
32	109-1SCK0480-E	Resistor NTC SCK048 (RoHS)	1	TH1,
33	190-99B0365JG-E	INFINEON IC ICE3B0365JG(RoHS)	1	U1,
34	190-99PC817C-E	IC PC817C(COSMO) (RoHS)	1	U2,
35	109-2VR104710-E	Varistors TVR10471(RoHS)TVR10471KSY	1	ZNR1,
36	051-A05364C-E	PCB ASS'Y SUB SB30/230VPOWER-SOURCE Control RoHS	1	
37	323-AL-05205-0LAE	Heat-sink 76*28*8mm (RoHS)	1	
38	323-AL-05206-0LAE	Heat-sink 52*28*8mm	1	

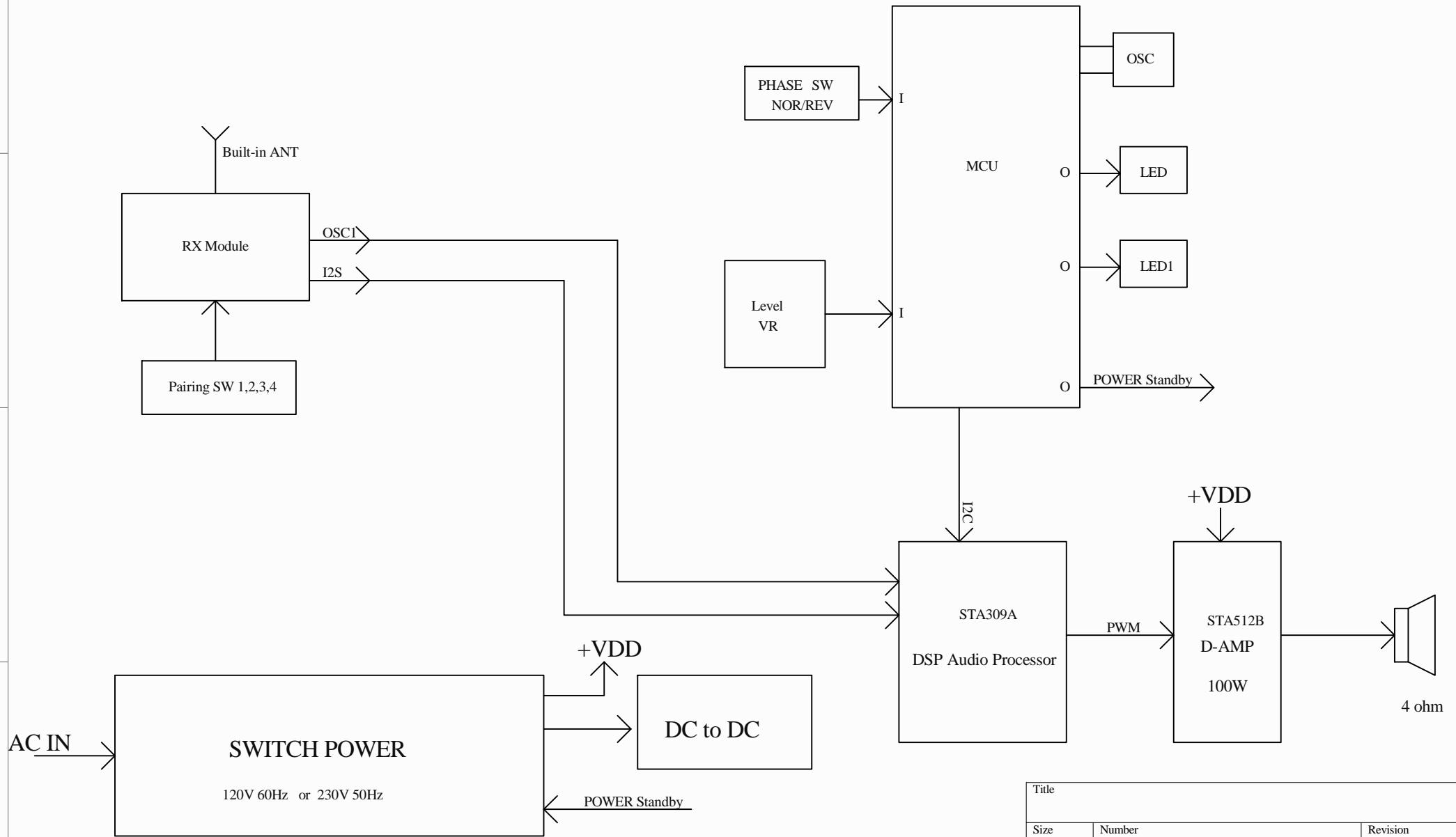
item	part no.	description	quantity	refer
1	052-A05363B-E	PCB ASS'Y SUB SB30/120V POWER-SOURCE RoHS	1	
2	141-B7102J50-E	SMD Capacitor 0805 X7R 1nF 50V5% (RoHS)	3	C11,C12,C15
3	141-B5105M50-E	SMD Capacitor 0805 Y5V 1uF 50V20% (RoHS)	1	C13,
4	141-C7104K50-E	SMD Capacitor 1206 X7R 0.1uF 50V 10% RoHS	1	C17,
5	141-C7104KA0-E	SMD Capacitor 1206 X7R 0.1uF 100V ±10% (RoHS)	1	C20,
6	141-C7221KJ0-E	SMD Capacitor 221P 1000V 10% 1206 X7R (RoHS)	2	C23,C24,
7	141-C7474K50-E	SMD Capacitor 0.47uF 50V 1206 X7R 10% (RoHS)	1	
8	141-B7103K50-E	SMD Capacitor 0.01U 50V X7R 0805 (RoHS)	1	C3,
9	141-B7104K50-E	Capacitor CAP SMD 0805 X7R 0.1uF ±10% 50V LF/RoHS	5	C7,C9,C16,C18,C14,
10	197-0S4148WSP-E	SMD Diode LL4148WSP 0805 SHAWELL	4	D11,D12,D13,D14,
11	197-03RLS4148S-E	*SMD Diode RLS4148-TE11 ROHM 1206 RoHS	2	D3,D7,
12	192-992T4403S-E	SMD Transistor YG PNP MMBT4403 SOT-23 (RoHS)	1	Q1,
13	192-991T4401S-E	SMD Transistor YG NPN MMBT4401 SOT-23 (RoHS)	1	Q2,
14	192-111BT3904S-E	SMD Transistor MMBT3904 TRANSISTORSOT-23 NPN 40V 200MA (RoHS)	1	Q5,
15	192-992T2907AS-E	SMD Transistor YG PNP MMBT2907A SOT-23 (RoHS)	2	Q9,Q10,
16	118-12065103J-E	SMD Resistor 510K 1206 5% RoHS	2	R1,R4,
17	118-12065100J-E	SMD Resistor 510Ω 1206 ±5% RoHS	1	R10,
18	118-120622R0J-E	SMD Resistor 22Ω 1206 5% (RoHS)	2	R11,R39,
19	118-08050000F-E	SMD Resistor 0Ω 0805 1% RoHS	2	R12,R25,
20	118-08055101F-E	SMD Resistor 5.1K 0805 1/10W 1%(RoHS)	2	R13,R18,
21	118-12064700J-E	SMD Resistor 470Ω 1206 5% (RoHS)	1	R14,
22	118-12062000F-E	SMD Resistor 200ohm 1206 1% (RoHS)	1	R15,
23	118-08052201F-E	SMD Resistor 2.2K 0805 1/10W 1%(RoHS)	1	R16,
24	118-08051002F-E	SMD Resistor 10K 0805 1/10W ±1% LF(RoHS)	3	R17,R26,R22
25	118-08050000J-E	SMD Resistor 0805 1/10W 0Ω±5%LF	1	R19,
26	118-120610R0J-E	SMD Resistor 10.0Ω 1206 5% (RoHS)	2	R2,R6,
27	118-12063002J-E	SMD Resistor 30KΩ 1206 5%(RoHS)	1	R24,
28	118-12062002F-E	SMD Resistor 20K 1206 1% (RoHS)	1	R27,
29	118-120630R0J-E	SMD Resistor 1206 30Ω ±5% (RoHS)	1	R28,

30	118-08058201F-E	SMD Resistor 0805 8.2K 1% (RoHS)	1	R30,
31	118-120656R0J-E	SMD Resistor 1206 1/4W 56 ±5% LF	2	R32,R37,
32	118-12066802J-E	SMD Resistor 68K 1206 5%(RoHS)	2	R33,R34,
33	118-12063902F-E	SMD Resistor 39.0K 1206 1% (RoHS)	1	R36,
34	118-12063002F-E	SMD Resistor 30KΩ 1206 1% (RoHS)	1	R41,
35	118-12061004F-E	SMD Resistor 1M 1206 1% (RoHS)	2	R5,R8,
36	118-12061201F-E	SMD Resistor 1.2K 1206 1% (RoHS)	1	R7,
37	199-6500240D-E	Diode 24v 500mW SMT LL-34 (RoHS)	1	ZD1,
38	199-6500150SJ-E	SMD Diode MINI-MELF 500mW 5% 15V ZMM5245B (RoHS)	1	ZD2,
item	part no.	description	quantity	refer
1	104-A05322B00V-E	PCB OF SUB104P PSU RoHS	0,5	
2	139-B106M50-E	LOWESR Capacitor 10uF 50V 105°C20% TAP(RoHS)	1	C19,
3	130-2B222MJ03-E	Capacitor 2200pF 1000V Y5P20%TAP RoHS	1	C2,
4	130-2B102MJ03-E	Capacitor 1000pF 1000V Y5P20%TAP RoHS	1	C30,
5	139-B107M25-E	LOWESR Capacitor 100uF 25V RoHS	1	C31,
6	139-3227M16-E	Capacitor 220uF 16V±20% TAP (RoHS)	1	C5,
7	139-B107M16-E	LOWESR Capacitor 100uF 16V RoHS	1	C6,
8	135-3226M50-E	Capacitor 22U 50V ±20% TAP(RoHS)	1	C8,
9	197-000UF4007-E	Diode UF4007 (RoHS)	1	D2,
10	197-631N4148-E	Diode 500mW 75V 1N4148 PanjitTAP (RoHS)	1	D5,
11	154-V2500BT3-E	Fuse 2.5A 250V VDE TimeLag AI (RoHS)	1	F1,
12	190-99TL432A-E	IC HTC TL432 TO92 RoHS	1	IC1,
13	161-506520-E	JUMPER WIRE 26mm TAP (RoHS)	10	J1,J3,J4,J53,J4,J5,J9,J10, J2.
14	192-1682N3906-E	Diode 2N3906 40V 200mA TO-92AI-PNP (RoHS)	1	Q3,
15	192-1672N3904-E	Diode 2N3904 40V 200mA TO-92AI-NPN (RoHS)	1	Q4,
16	110-122R2J52-E	Resistor 2.2Ω 1/2W ±5% CF 52mmTAP (RoHS)	1	R20,
17	116-161962F26-E	Resistor 19.6K 1/6W ±1%26mm TAP (RoHS)	1	R21,
18	110-14220J52-E	Resistor 22Ω 1/4W ±5% CF 52mmTAP (RoHS)	1	R31,
19	110-16103J52-E	Resistor 10K 1/6W ±5% CF 52mm TAP (RoHS)	2	R38,R40,
item	part no.	description	quantity	refer
1	121-0603B601N2-E	FERRITE BEAD SMD 600Ω 100MHz25% 0603 CBG160808U601T (ROHS)	9	B2,B3,B4,B13,B6,B7,B10, B14,B15,
2	121-0805B601N-E	Bead SMD 0805 600 ohms2CB201209A601 (RoHS)	1	B9,
3	141-A5104Z50-E	Capacitor CAP SMD 0603 Y5V0.1uF +80/-20% 50V LF	27	C1,C2,C3,C6,C11,C13,C15, C18,C19,C20,C23,C24, C27,C29,C33,C34,C36,C37, C42,C50,C51,C62,C63, C65,C72,C73,C74,
4	141-C7105K50-E	SMD Capacitor 1206 X7R 1uF 50V10% RoHS	4	C16,C21,C86,C87,
5	141-A0470J50-E	Capacitor CAP SMD 0603 NPO47pF ±5% 50V LF	1	C22,
6	142-SV226M16H-E	SMD Capacitor 22UF 16V 4.3*4.3mm(RoHS)	3	C28,C64,C75
7	141-A7122K50-E	SMD Capacitor 1.2nF 0603 +/-10% X7R1200P(RoHS)	2	C30,C4,
8	141-A0101J50-E	Capacitor CAP SMD 0603 NPO100pF ±5% 50V LF/RoHS	2	C31,C32,
9	142-SV106M25HN-E	SMD Capacitor NICHICON 10uF 25V85°C 5*5.5mm (RoHS)	1	C35,
10	141-B5106Z16-E	Capacitor CAP SMD 0805 10uF+80/-20% 16V LF/RoHS	3	C49,C52,C10
11	141-B5104ZA0-E	Capacitor CAP SMD 0805 Y5V0.1uF +80/-20% 100V (RoHS)	4	C5,C8,C12,C14,
12	134-A226M10-E	SMT1206(3216) Capacitor 10V 22uF-20/+20 (RoHS)	1	C66,
13	141-A0180J50-E	Capacitor CAP SMD 0603 NPO18pF ±5% 50V LF(RoHS)	2	C67,C71,
14	141-B0331JA0-E	SMD Capacitor 330pF 100V 5% 0805NPO RoHS	2	C7,C77,
15	190-16STA512BS-E	SMD IC ST STA512 SO36 RoHS	1	IC1,
16	190-16STA309S-E	SMD ST IC STA309A13TR TQFP64(RoHS)	1	IC2,
17	192-111BT3904S-E	SMD Transistor MMBT3904 TRANSISTORSOT-23 NPN 40V 200MA (RoHS)	2	Q2,Q4,
18	192-112BT3906S-E	SMD Transistor MMBT3906 TRANSISTORSOT-23 PNP 40V 200MA (RoHS)	1	Q3,
19	118-06032001J-E	SMD Resistor 0603 1/16W 2K ±5% LF	1	R1,
20	118-06031002J-E	SMD Resistor 0603 1/16W 10K ±5% LF(RoHS)	12	R2,R5,R11,R24,R26,R28, R33,R40,R41,R42,R53,R5
21	118-06033301J-E	SMD Resistor 0603 1/16W 3.3K ±5%LF	1	R20,

22	118-06032701J-E	SMD Resistor 0603 1/16W 2.7K ±5%LF/RoHS	4	R27,R31,R36,R39,
23	118-06031000J-E	SMD Resistor 0603 1/16W 100 ±5% LF	5	R34,R35,R37,R38,R45,
24	118-12060000J-E	SMD Resistor 1206 1/4W 0 ±5%LF/RoHS	1	R49,
25	118-06034702J-E	SMD Resistor 0603 1/16W 47K ±5% LF(RoHS)	1	R58,
26	118-06034701J-E	SMD Resistor 0603 1/16W 4.7K ±5%LF(RoHS)	1	R59,
27	118-20106R20J-E	SMD Resistor 2010 6.2Ω 5% RoHS	2	R6,R10,
28	118-06030000J-E	SMD Resistor 0603 1/16W 0 ±5%LF(RoHS)	9	R8,R13,R12,R14,R15,R17 ,R18,R19,R21,
29	118-201022R0J-E	SMD Resistor 22Ω 2010 5% (RoHS)	2	R9,R32,
30	186-AK08252ATS-E	MCU MPC82L52AT AND SOFT OFSB30 SUB AMP Rev:1.9 RoHS	1	U3,
31	190-998252ATS-E	SMD IC MPC82x52AT TSSOP-20(RoHS)	1	U3,
32	185-AK08252ATS-E	SOFT OF SB30 SUB AMP Rev:1.9RoHS	1	
33	190-99IMP809S-E	SMD IC IMP809SEUR-T(IMP)(RoHS)	1	U4,
34	190-99AP33GBS-E	SMD IC AP6209-33GB ANSC 3.3V SOT-23 Halogen free	1	U5,
35	190-99AP33GAS-E	SMD IC AP6209-33GA ANSC 3.3V SOT-25 Halogen free	1	U7,
36	104-A05364A00V-E	FR4 KB SB30 AMP PCB RoHS	0,5	
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	
1	175-9B08H02-E	8PIN PITCH=2.0mm 90°C(RoHS)	1	
2	050-A05364C-E	PCB ASS'Y SUB SB30/230VPOWER-SOURCE Control 3C RoHS	1	
<b>item</b>	<b>part no.</b>	<b>description</b>	<b>quantity</b>	<b>refer</b>
1	141-B7474K50-E	Capacitor 0.47U 50V 10% X7R0805 RoHS	1	C10,
2	141-B0102K50-E	SMD Capacitor 0.001uF NPO 080550V 10% (RoHS)	1	C4,
3	141-B7105K25-E	SMD Capacitor 1U 25V 0805 X7R10% (RoHS)	1	C5,
4	141-B7103K50-E	SMD Capacitor 0.01U 50V X7R 0805(RoHS)	2	C6,C8
5	197-0SL4148WP-E	SMD diode LL4148WP 1206SHAWELL(RoHS)	1	D1,
6	118-08050000F-E	SMD Resistor 0Ω 0805 1% RoHS	3	R1,R8,C1,
7	118-08051542F-E	SMD Resistor 0805 1/16W 15K4 ±1%LF RoHS	1	R11,
8	118-08052001F-E	SMD Resistor 0.1W 1% 2K (RoHS)	1	R12,
9	118-08054302J-E	SMD Resistor 0805 43K 5% (ROHS)	1	R15,
10	118-08051002F-E	SMD Resistor 10K 0805 1/10W ±1% LF(RoHS)	3	R2,R6,R10,
11	118-080510R0F-E	SMD Resistor 0805 10ohm 1% (RoHS)	2	R3,R4,
12	118-08052491F-E	SMD Resistor 2.49K 0805 1/10W 1%(RoHS)	1	R5,
13	118-08051000F-E	SMD Resistor 0805 1/10W 100 ±1% LF	1	R7,
14	190-16SG3525AP-E	Semiconductor SG3525AP SOP ST3*16pin(RoHS)	1	U1,
15	104-A05317C00V-E	PCB OF HKTS200 Control8 RoHS	0,125	

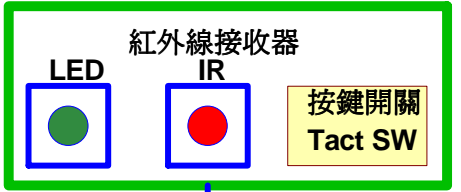


# SB30 SUB Wireless RX Electrical block diagram

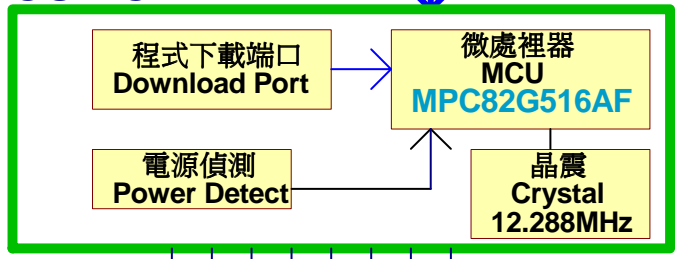


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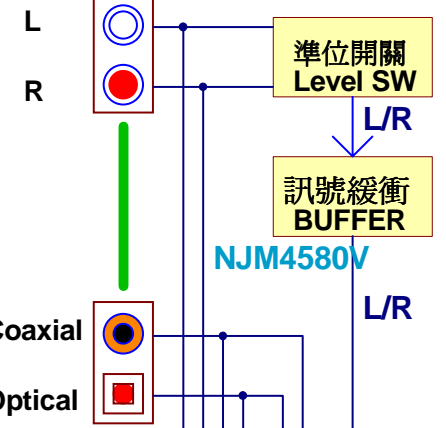
### 按鍵/遙控器接收板 KEY-IR PCB



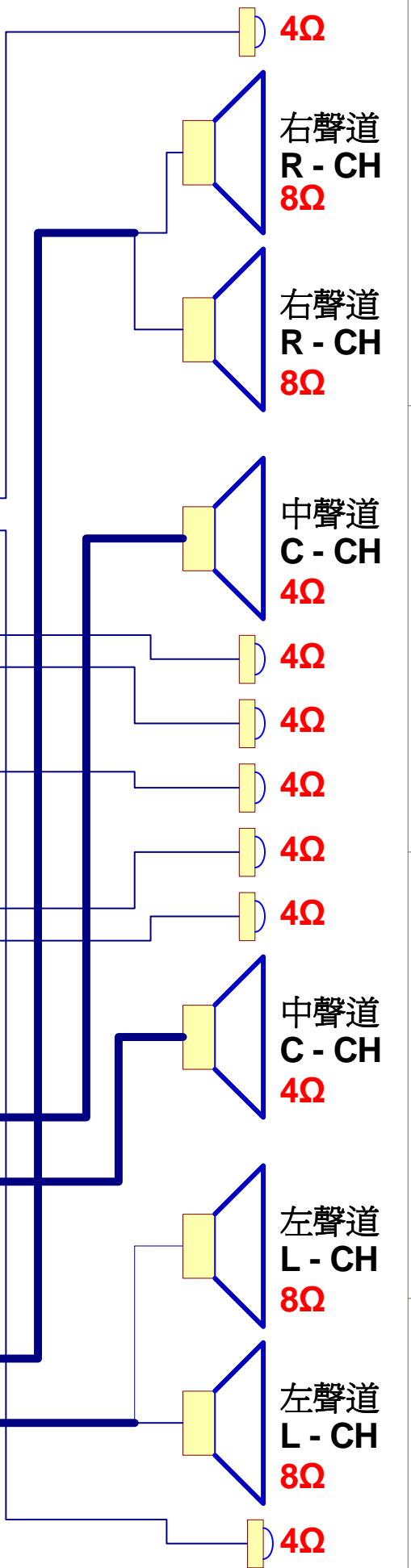
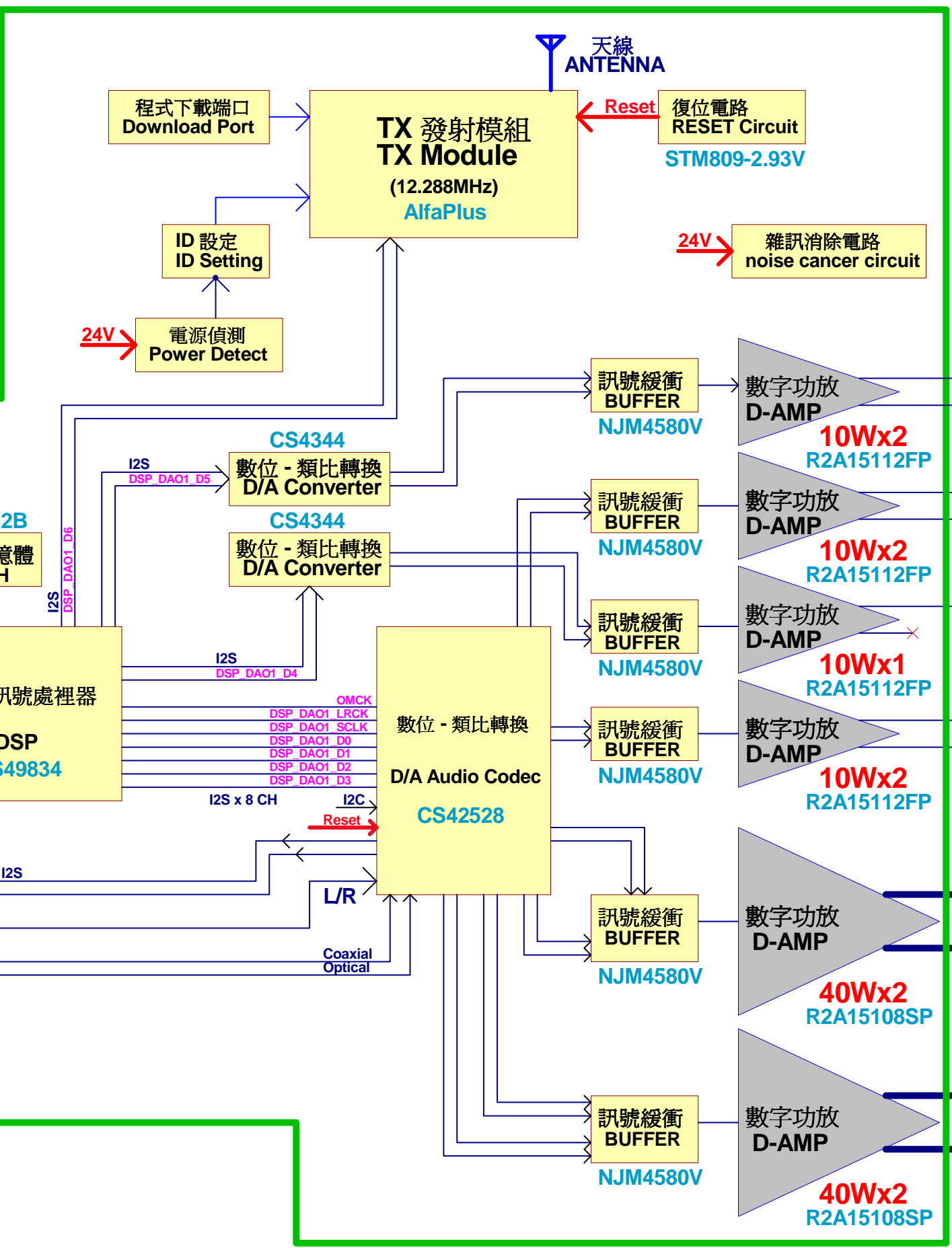
### 微處理器板 MCU PCB



SYSTEM-RESET  
DET-IN  
SPI  
I2C  
24MHz  
3.3V 3.6V 24V



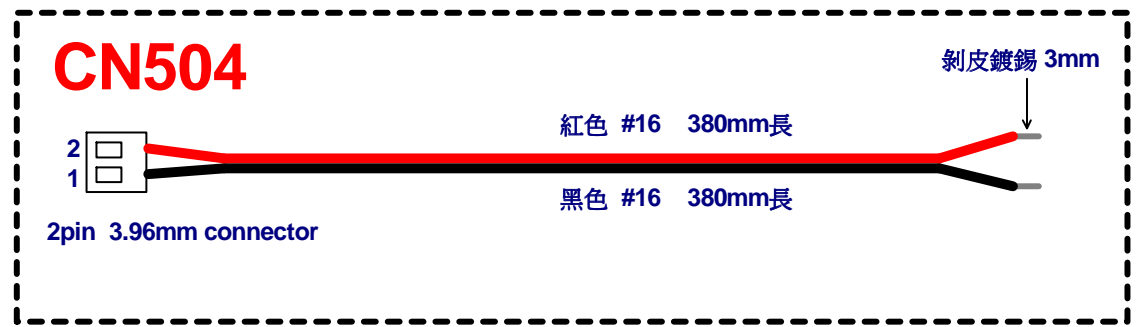
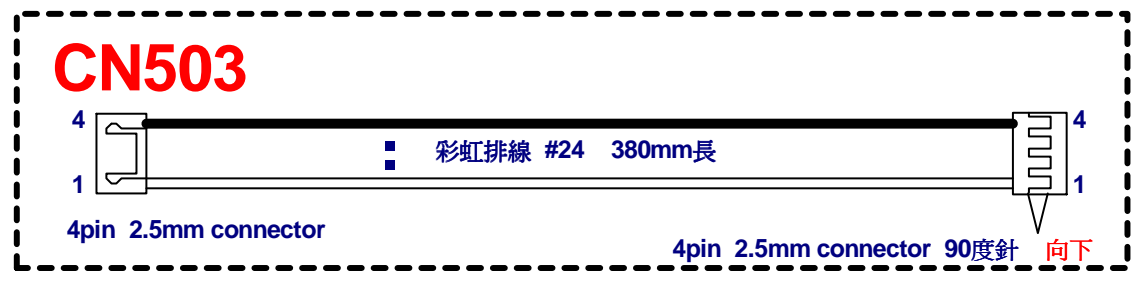
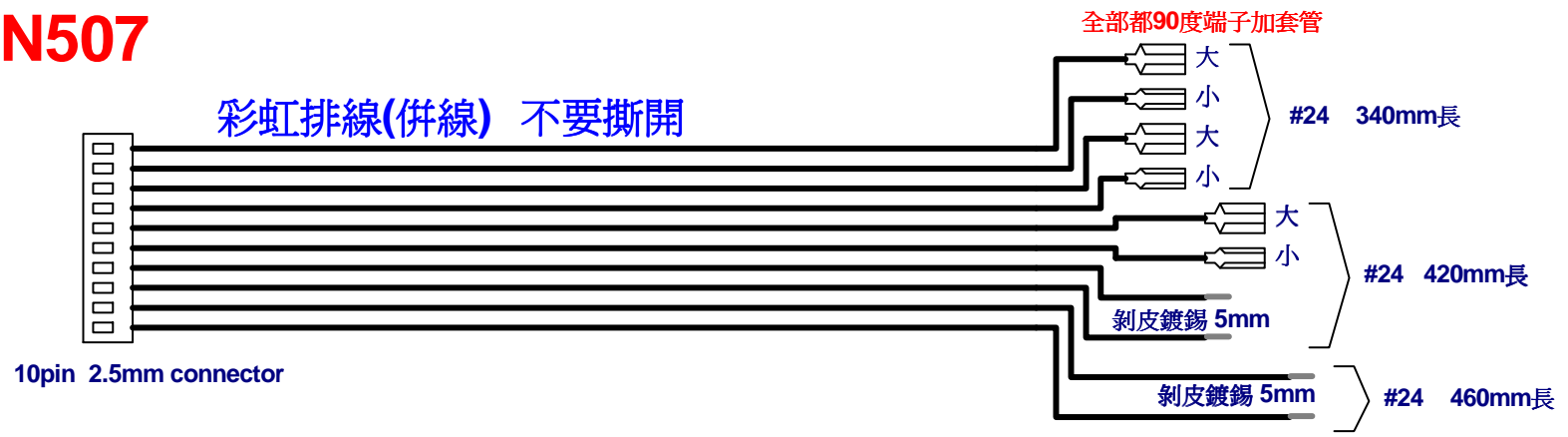
訊號偵測 Auto ON  
AUX\_DET  
NJU7181 x 2 pcs



Title <b>SB30 Sound-bar Block Diagram</b>		
Size A3	Number	Revision 2011/11/25
Date: 2011/11/25	Sheet of	
File: D:\公事包\SB30 Sound-bar Block Diagram\B30_SchDo\BOLO.HO		

# CN507

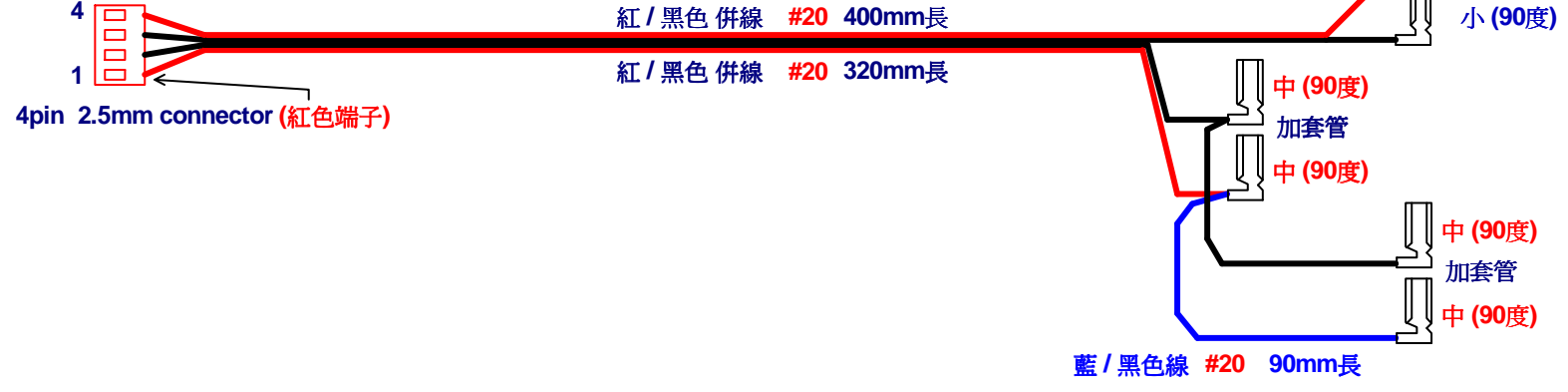
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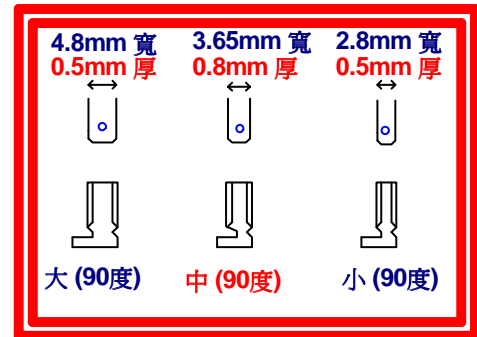
# CN508



# CN506



## 對應端子尺寸



# CN509



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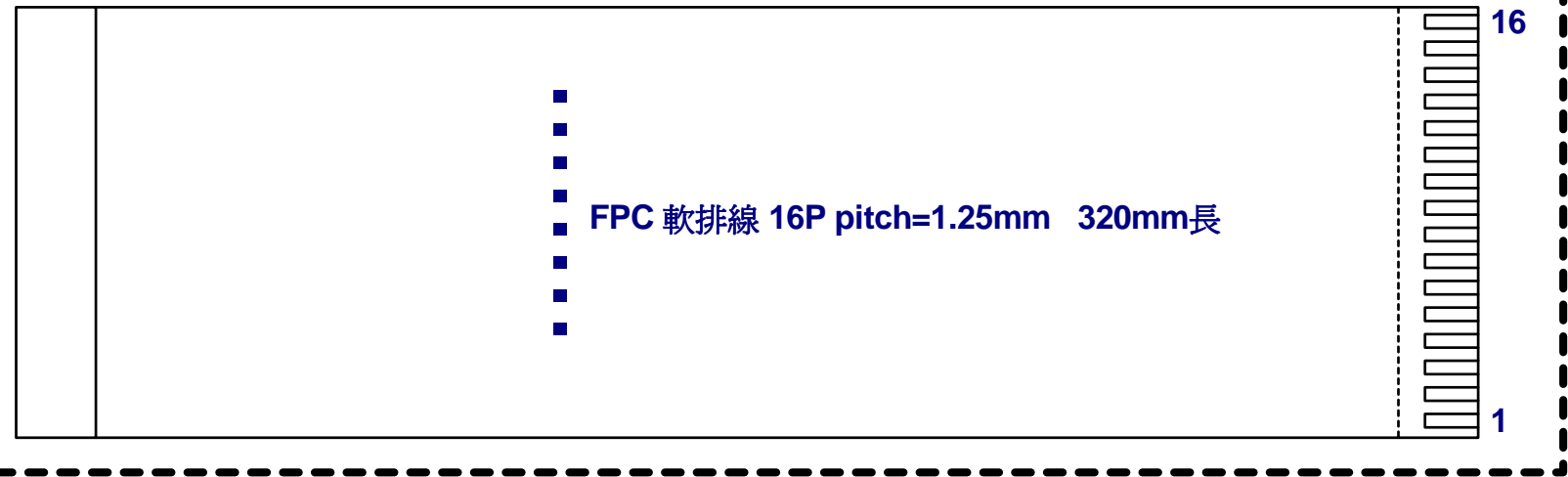
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2

3

4

# CN205



A

A

B

B

C

C

D

D

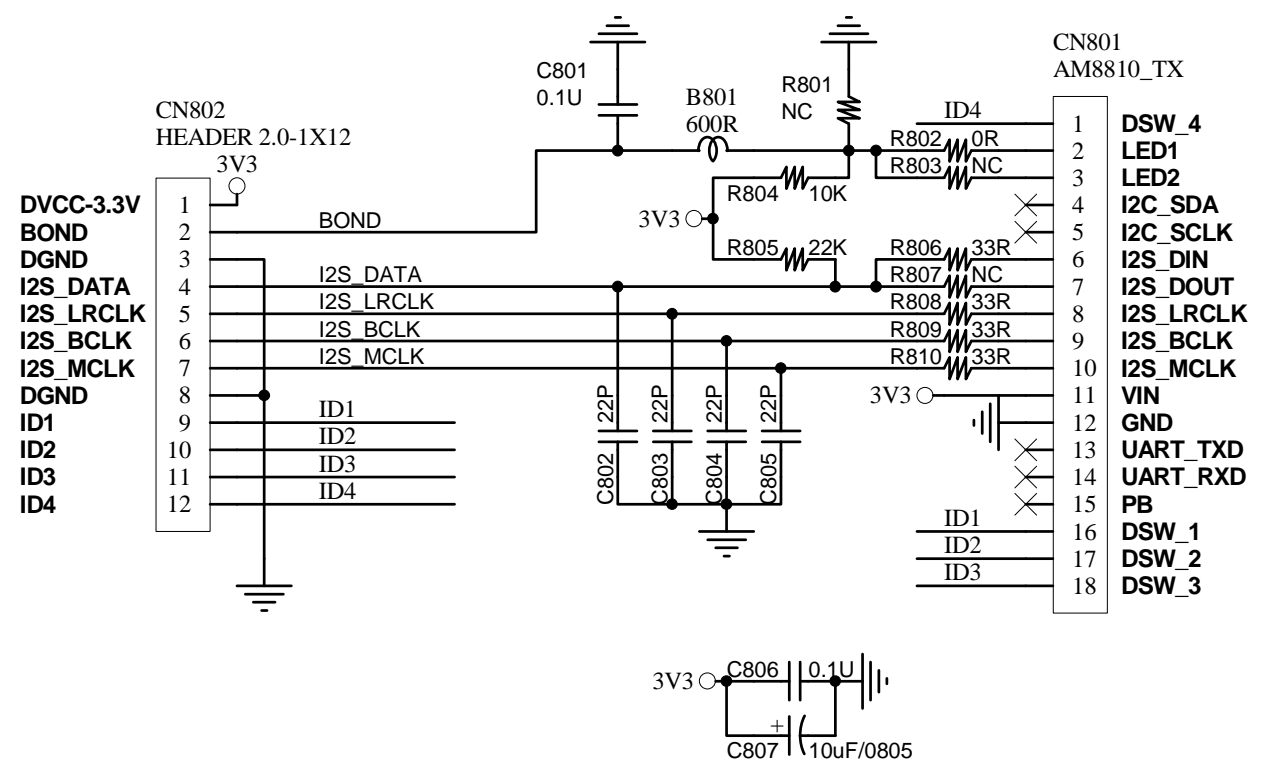
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1

2

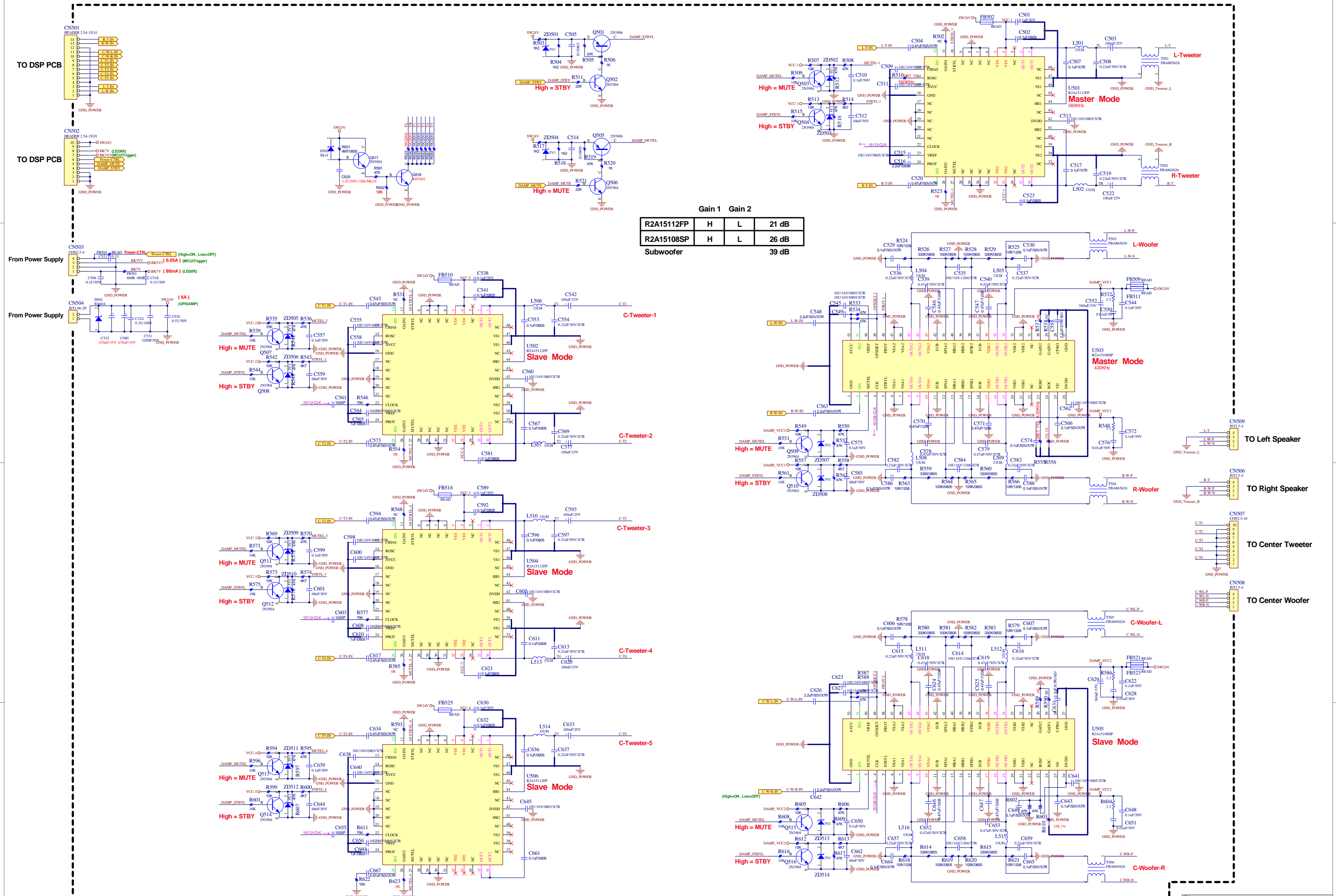
3

4



	TX Mode	RX Mode
R801	-----	10K
R802	0R	-----
R803	-----	0R
R804	10K	-----
R806	33R	-----
R807	-----	33R

Title			<b>Digital-Converter - 110106</b>		
Size	Number		Revision		
A4					
Date:	2011/11/30		Sheet of		
File:	E:\電子資料\..DV1-Digital-Converter - 110106.SchDoc		Bolo.Ho		



	Gain 1	Gain 2	
R2A15112FP	H	L	21 dB
R2A15108SP	H	L	26 dB
Subwoofer			39 dB

TO DSP PCB

TO DSP PCB

From Power Supply

From Power Supply

TO Left Speaker

TO Right Speaker

TO Center Tweeter

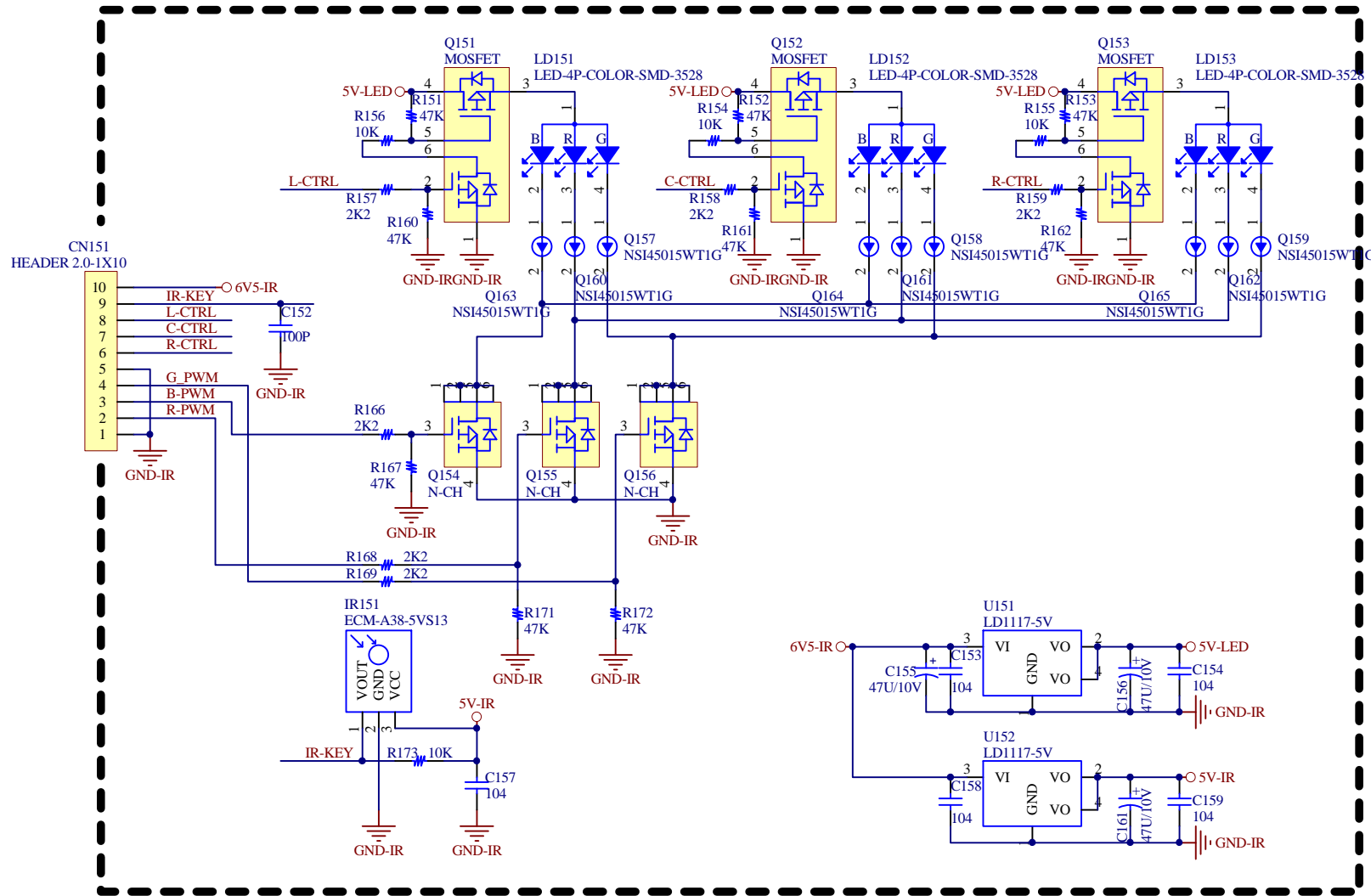
TO Center Woofer

MP-DAMP- 110916		
Size	Number	Revision
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		Bolo Ho





### IR-PCB



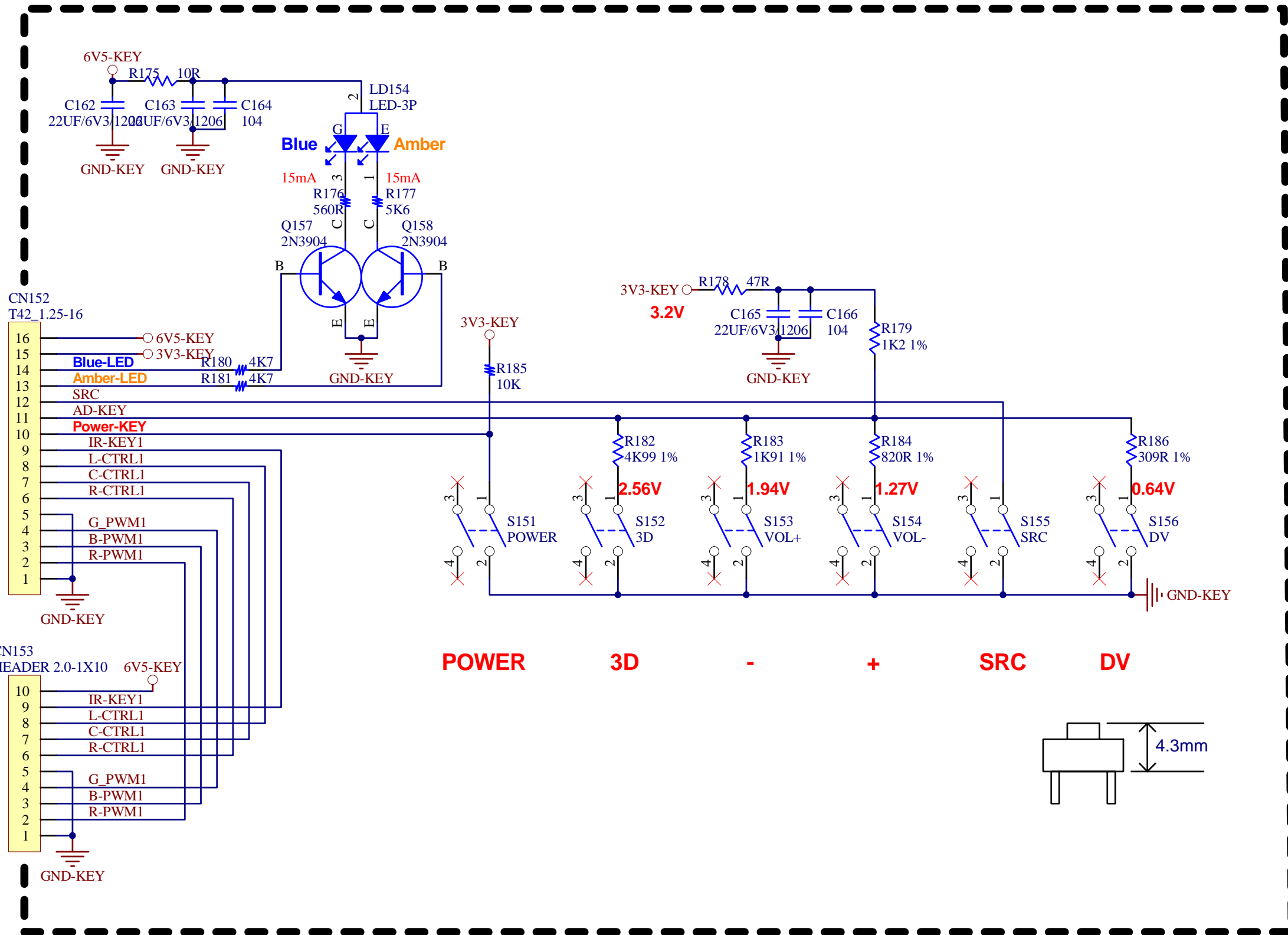
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Size	Number	Revision
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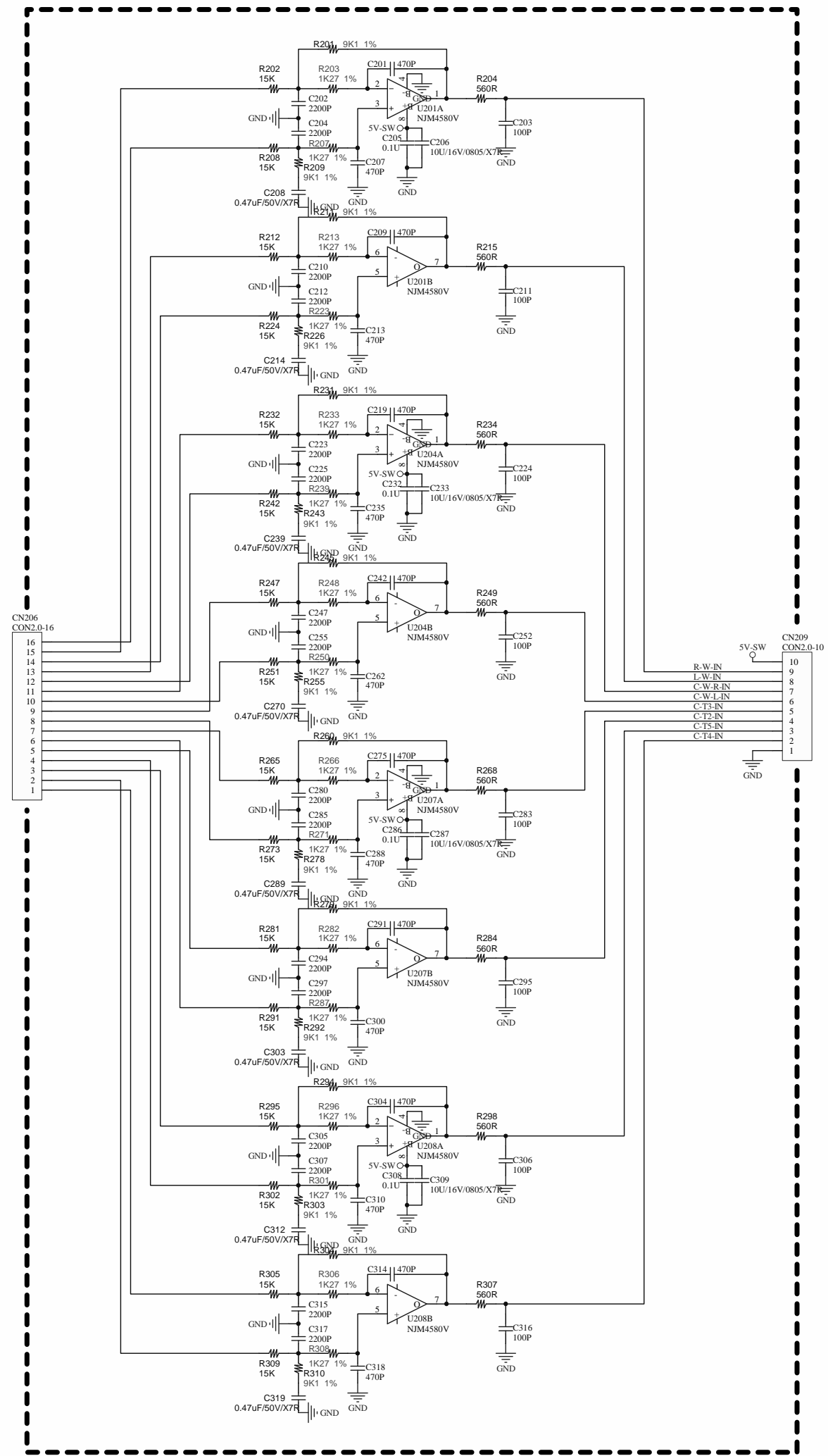
# KEY-PCB

TO DSP PCB

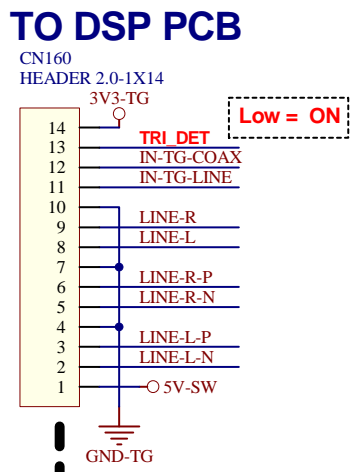
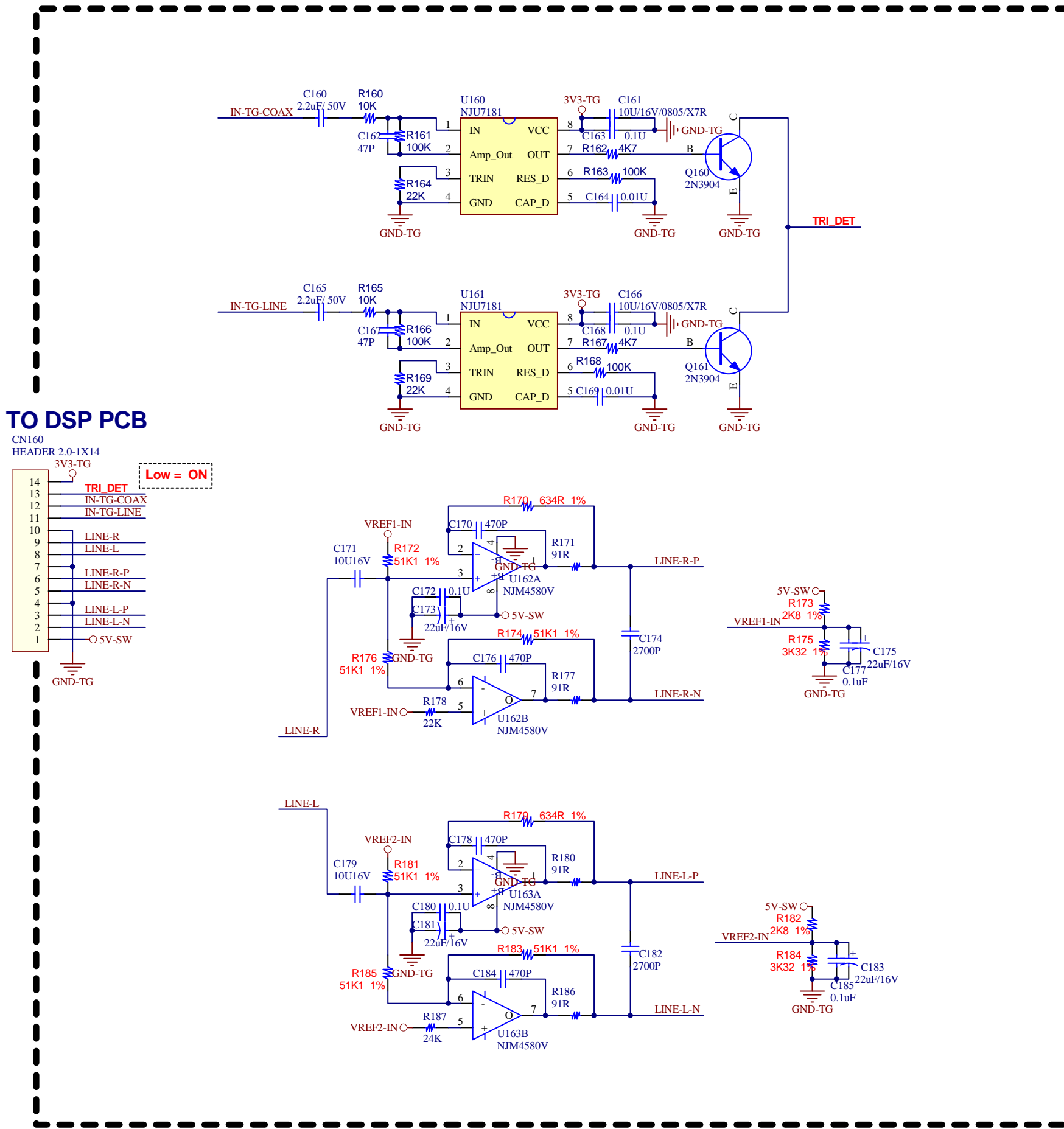
TO IR PCB



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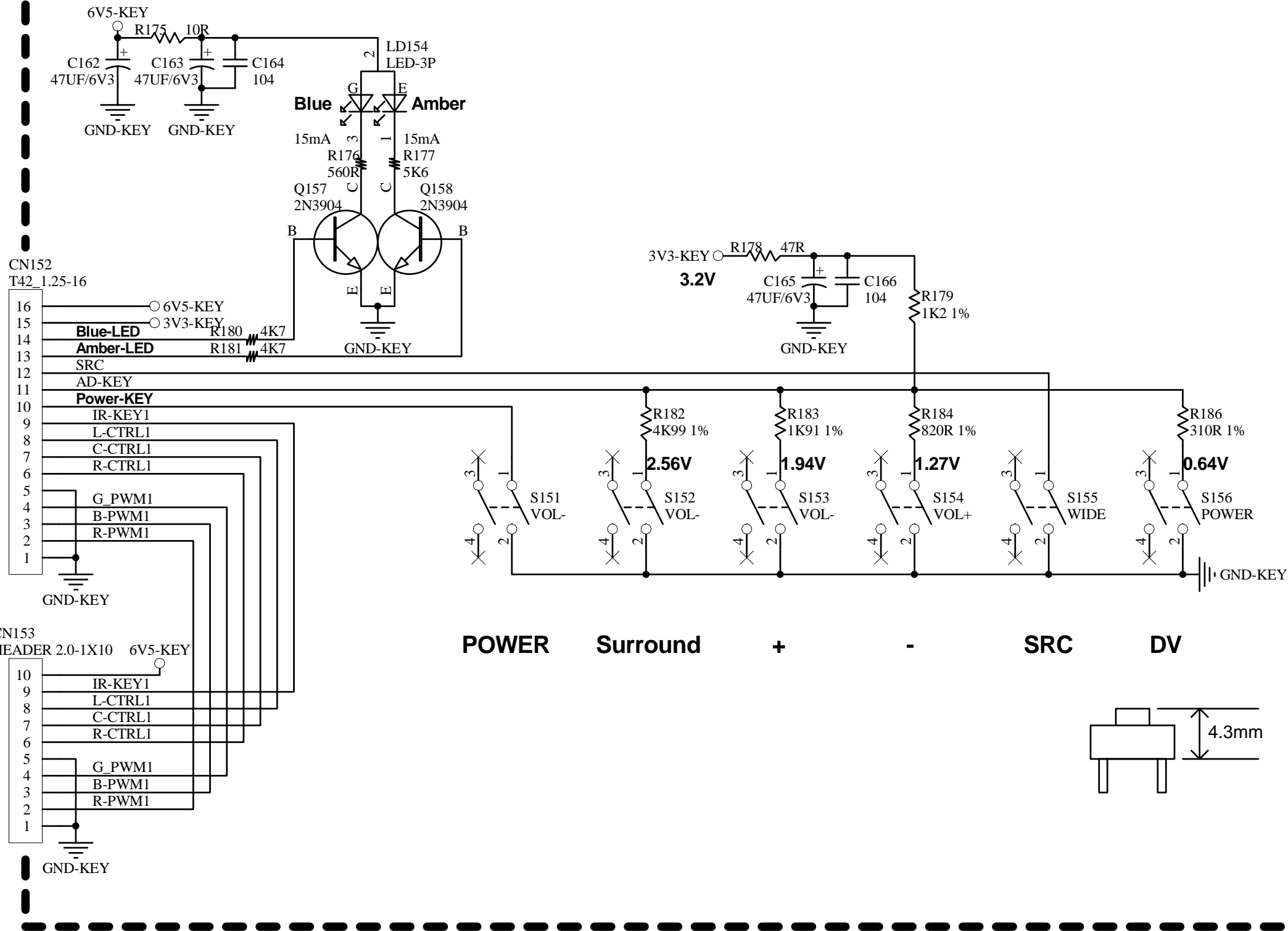


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Title		
<b>EV2-Trigger-110126</b>		
Size	Number	Revision
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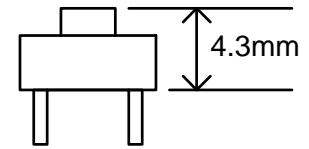
# KEY-PCB



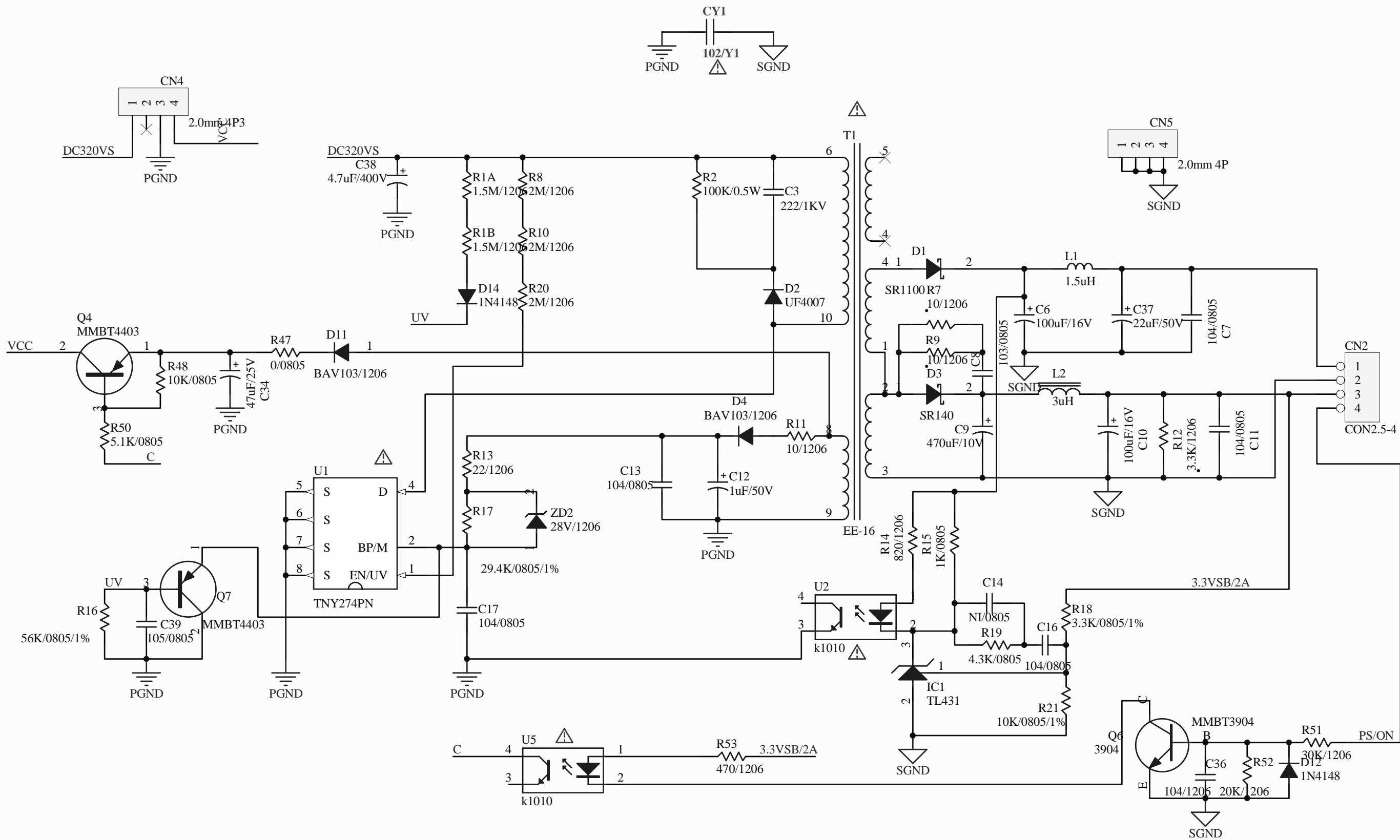
**TO DSP PCB**

**TO IR PCB**

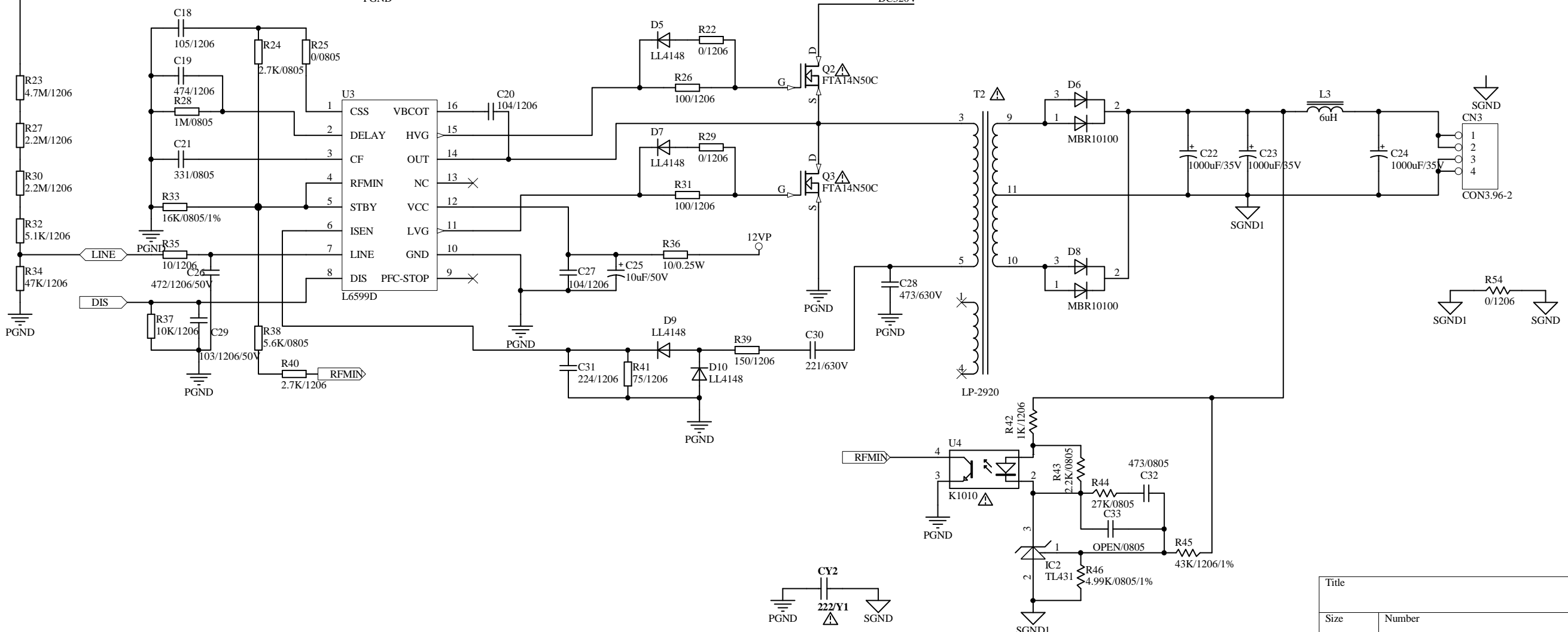
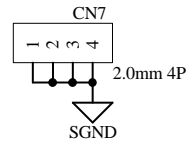
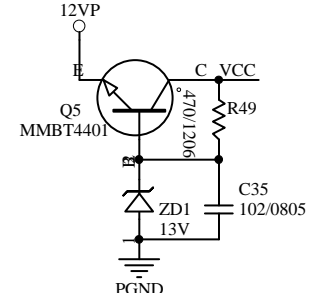
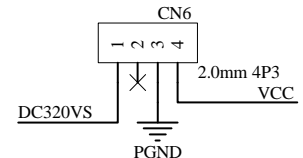
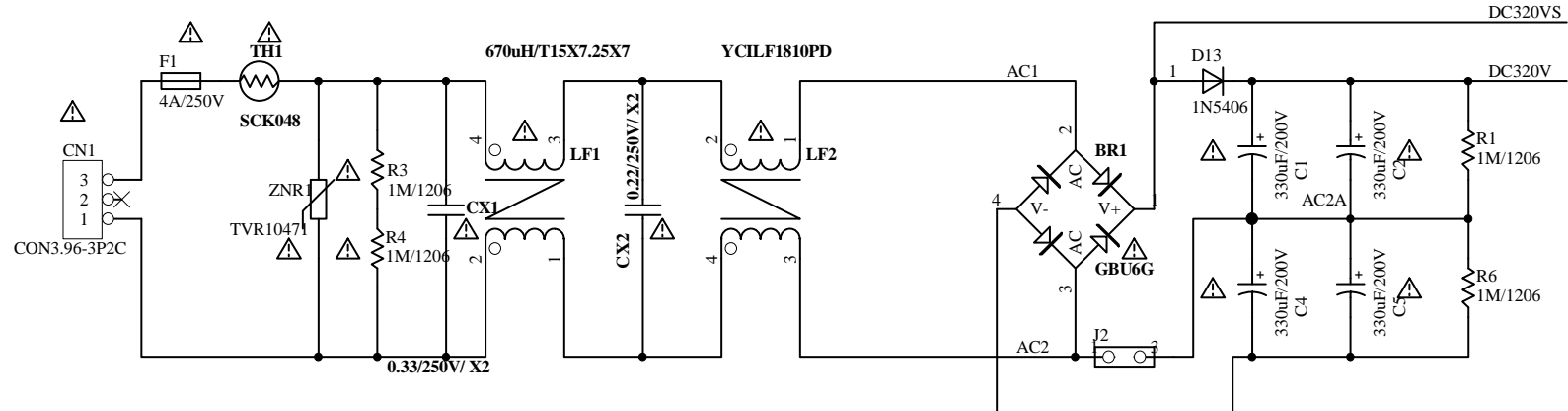
**POWER Surround + - SRC DV**



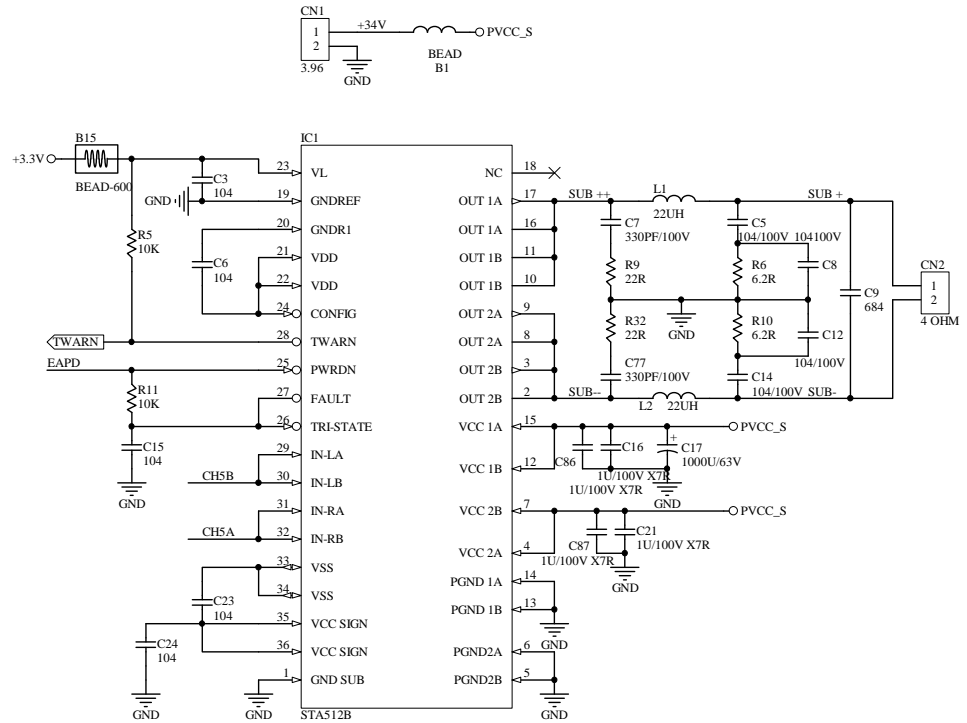
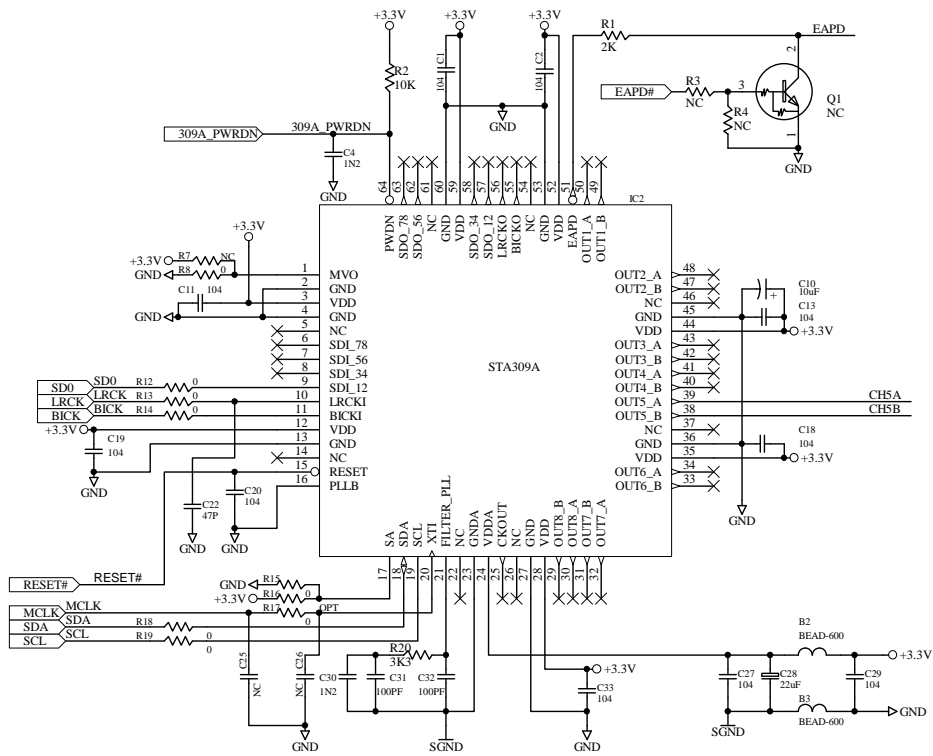
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Title		
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Date:	2011/11/28	Sheet of
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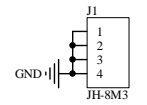
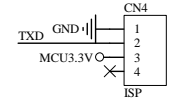
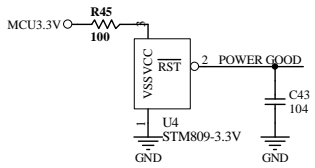
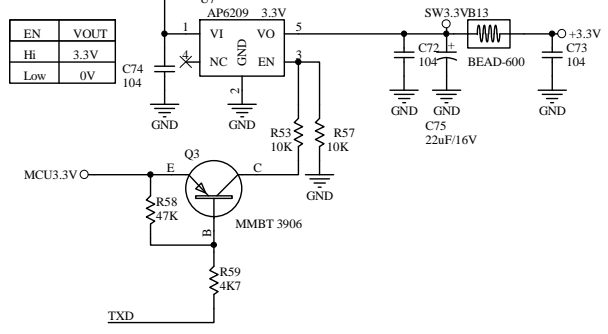
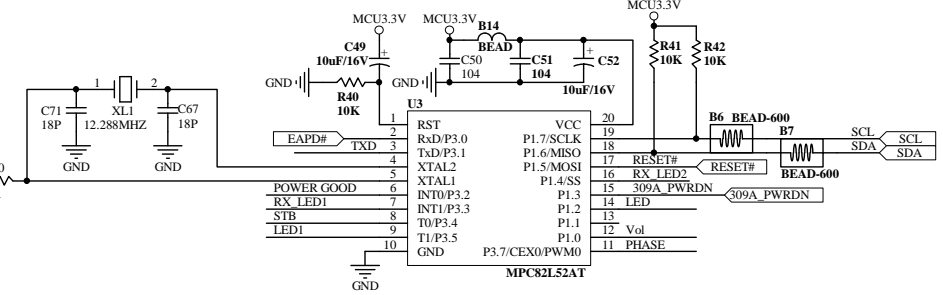
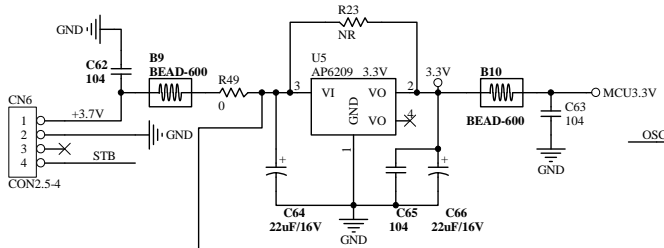
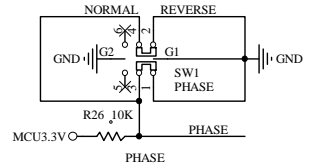
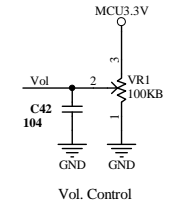
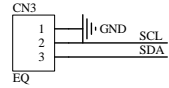
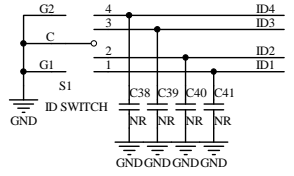
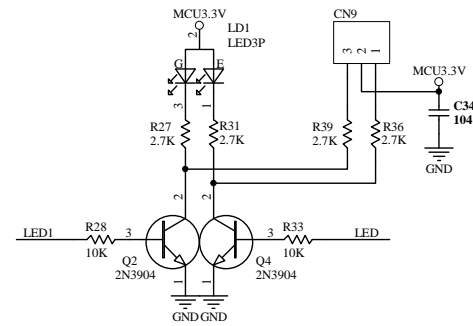
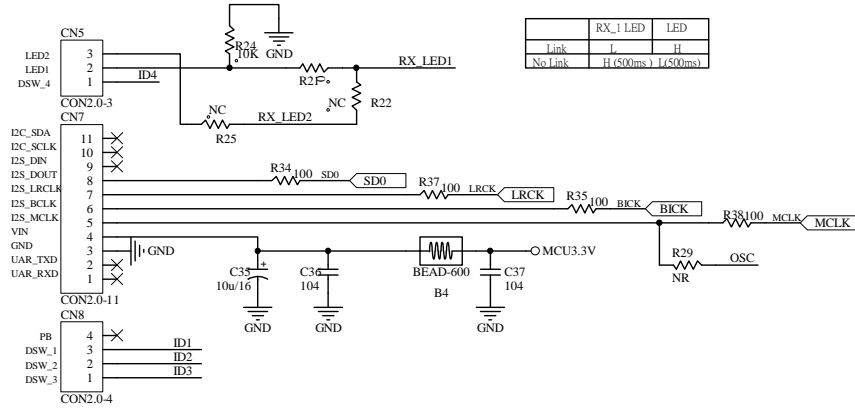


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Size	Number	Revision
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Date:	2011/6/28	Sheet of
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# From 2.4G MODULE PCB



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Size	Number	Revision
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