PowerShare™ PS602, PS602P & PS604 Adaptable Power Amplifiers

Service Manual

Reference Number 735927-SM Rev. 00

Contents

PART LIST NOTES

1. The individual parts located on the PCBs are listed in the Electrical Part List.

2. This part is referenced for informational purposes only. It is not stocked as a repair part. Refer to the next higher assembly for a replacement part.

3. ⚠ This part is critical for safety purposes. Failure to use a substitute replacement with the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards.

CAUTION: The Bose® PowerShare™ amplifiers contain no user-serviceable parts. To prevent warranty infractions, refer servicing to warranty service stations or factory service.

WARRANTY

The Bose PowerShare amplifiers are covered by a limited 5-year warranty.

Product Description

The Bose® PowerShare™ PS602, PS602P, and PS604 adaptable amplifiers feature smart loudspeaker processing and patented adjustable wattage distribution per channel, perfect for multi-zone installations with varying power needs. PowerShare's multi-channel distribution design allows the amplifier to use its total 600 Watts efficiently by delivering only the required wattage needed per zone, in low-impedance, high-impedance, or hybrid installations. Each channel can deliver up to 600 Watts regardless of load into 4 ohms, 8 ohms, 70 Vrms, or 100 Vrms.

Many applications will only require configuration from the rear panel. For applications that require more customization, access the advanced digital loudspeaker processing features using the free web-downloadable PowerShare™ Editor Software. The PowerShare Editor Software accesses all of the FreeSpace®, Panaray®, and RoomMatch® Utility loudspeaker EQs, as well as room EQ, standard mixing, band pass filtering, Vpeak and Vrms limiters, delay, mute polarity inversion, and output phase inversion. This feature eliminates the need for an additional loudspeaker processor in most applications.

The PS602 and PS604 amplifiers also support gangable CC-1 ControlCenter Zone Controllers for remote volume control using common CAT-5 cables.

Product Features:

PowerShare Amplifier Series
Three 1U amplifier models provide two or four channel 600 Watt options to satisfy the needs of almost any audio installation. Models include a two-channel installed amplifier, a portable two-channel amplifier featuring XLR inputs and Speakon® outputs, and a four-channel installed amplifier.

PowerShare Technology
Patented PowerShare technology allows 600 Watts of power to be shared asymmetrically across multiple outputs, in low-impedence, high-impedence, or hybrid situations - perfect for multi-zone installations with varying power needs.

Dual Feedback Loop System
Proprietary design combines Class-D efficiency with a dual current and voltage feedback loop circuit that continuously monitors and controls both the curent and voltage delivered to the loudspeaker load. This combination allows the amplifier to consistently deliver the widest possible dynamic range, frequency response, and lowest possible distortion, independent of power level and load impedence, while continuously protecting both the amplifier and connected loudspeakers from overload conditions.

Low- and High-Impedance Applications
Each channel can be independently configured for low-impedence (4-8 ohms) or high-impedance (70/100 V) applications. Each channel can deliver up to full amplifier power regardless of load.

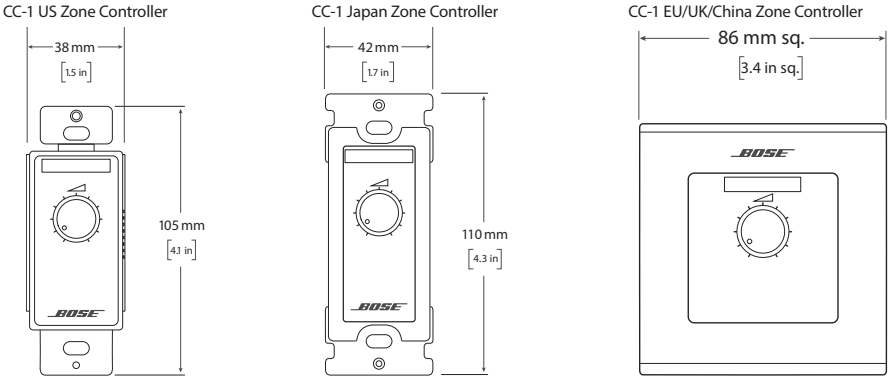
Integrated Loudspeaker Processing and the PowerShare Editor Software
The simplified rear panel provides access to ten pre-loaded loudspeaker EQs optimized for use with the following Bose loudspeakers: FreeSpace® DS 16, DS 40, DS 100, FS3B, Panaray® 402 and 802 Series IV, MA12EX, RoomMatch® Utility RMU105 and RMU108, as well as a flat setting for FS3 systems. For advanced customization, the PowerShare Editor Software accesses all of the FreeSpace, Panaray, and RoomMatch Utility loudspeaker EQs, as well as room EQ, standard mixing, band pass filtering, Vpeak Vrms limiters, delay, mute polarity inversion, and output phase inversion. These added features eliminate the need for an additional loudspeaker processor in many applications.

Product Description

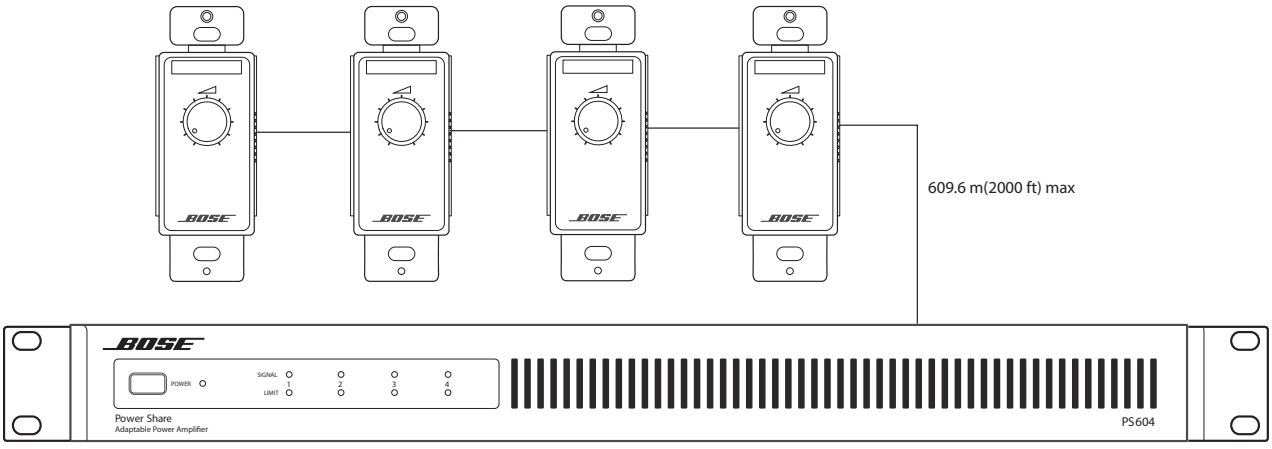
Auto-Standby
Optional energy saving feature that allows PowerShare™ amplifiers to automatically go into a lower power Standby Mode when audio signal falls below a set threshold, and wake up when audio signal is above the threshold.

ControlCenter Zone Controllers - Remote Volume Control
Up to four CC-1 Zone Controllers can be ganged together and connected to a PowerShare amplifier for remote volume control with CAT-5 cabling, which reduces wiring and labor. Each zone controller can be simply configured to control one to four outputs, allowing for bi-amping.

Remotely control the volume of the PS602 and PS604 amplifiers using the Bose® CC-1 ControlCenter Zone Controllers. Controllers are available in two colors (white and black) for each of three regions (US, Japan, and EU/UK/China). The US and Japan controllers fit into any regional 1-gang electrical box. The EU/UK/China zone controllers come as a finished wall plate of size 86-by-86 millimeters, with 60 to 60.3 millimeter horizontal or vertical screw spacing. Each zone controller also comes with a sheet of pre-printed labels, with two blanks for custom labeling, and two screws for fastening the zone controller to the electrical box. The US and Japan zone controllers do not include a wall plate cover; these should be sourced locally, as each installation may require a different size or color cover.



Direct CC-1 Zone Controller Connection to the Amplifier
Zone controllers located next to one another can be ganged together directly and have a single homerun back to the amplifier, using standard EIA 568B CAT-5 cables and RJ-45 connectors. The PS602 supports either one or two ganged CC-1 Zone Controllers, and the PS604 supports up to four ganged CC-1 Zone Controllers. Each zone controller can be independently configured to control any output, or combination of outputs, for bi-amping.

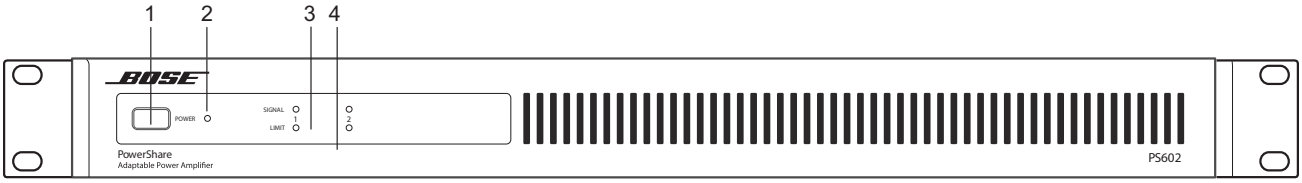


Product Description

PowerShare™ PS602

The PS602 is a 2-channel installed amplifier that allows its total 600 Watts to be shared asymmetrically across both outputs. Independently control the output level, EQ, and low-impedance/high-impendance (Low-Z/Hi-Z) settings for each output. The PS602 supports built-in loudspeaker EQs for the FreeSpace® DS 16, DS 40, DS 100, FS3B, Panaray® 402 and 802 Series IV, MA12EX, and RoomMatch® Utility RMU105 and RMU108, as well as a Flat setting for FS3 systems. For applications that require more customization, access the advanced digital loudspeaker processing features using the free web-downloadable PowerShare Editor Software. The PS602 also supports up to two gangable CC-1 ControlCenter Zone Controllers for remote volume control using CAT-5 cables.

PS602 Front Panel



1. POWER Switch - ON/OFF AC power.

2. POWER LED - Solid green LED indicates the unit is ON. Blinking green LED indicates the unit is in standby mode. Solid amber LED indicates an over-temperature fault. A solid red LED indicates a power supply fault.

3. INPUT 1 & 2 SIGNAL LED - Each LED operates independently.

Relative to each line-level balanced Euroblock input:

• If the SENSITIVITY DIP switch is set to 4 dBu, then the LED is green from -48 dBu to 8.99 dBu, with a typical input of 4 dBu. LED is amber from 9 dBu to 11.99 dBu. LED goes red, indicating input clipping, at 12 dBu or over.

• If the SENSITIVITY DIP switch is set to 12 dBu, then the LED is green from -48 dBu to 16.99 dBu, with a typical input of 12 dBu. LED is amber from 17 dBu to 19.99 dBu. LED goes red, indicating input clipping, at 20 dBu or over

Relative to each line-level unbalanced RCA input:

• If the SENSITIVITY DIP switch is set to 4 dBu, then the LED is green from -62 dBV to -6 dBV, with a typical input of -10 dBV. LED is amber from -5.99 dBV to -3 dBV. LED goes red, indicating input clipping, at -2.99 dBV or over.

• If the SENSITIVITY DIP switch is set to 12 dBu, then the LED is green from -62 dBV to 2.99 dBV, with a typical input of -2 dBV. LED is amber from 3 dBV to 5.99 dBu. LED goes red, indicating input clipping, at 6 dBV or over

Both LEDs will go solid red if a power supply fault is detected.

4. OUTPUT 1 & 2 LIMIT LED - Each LED operates independently.

• LED is amber when the amplifier is limiting the corresponding output due to exceeding the specified loudspeaker Vpeak or Vrms limits on an individual channel. If the sum of the amplifier outputs exceeds 600 Watts peak, then the amplifier will limit all outputs equally, and all LEDs will show limiting simultaneously. This is because the amplifier is also measuring and limiting total output power, in addition to individual channel output power. The amplifier is capable of delivering one-third (1/3) power continuously, 200 Watts peak.

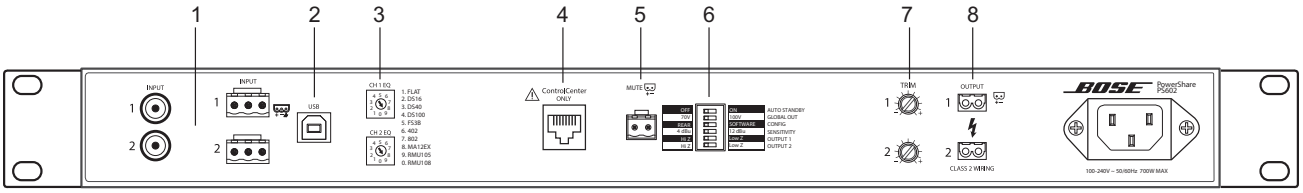
• Each OUTPUT LIMIT LED will go solid red if there is an EHF fault on the corresponding output.

• Both LEDs will go solid red when all outputs are muted due to an amplifier fault, or if there is a power supply fault.

• Both LEDs will blink red when all outputs are muted from the rear panel mute connector.

Product Description

PS602 Rear Panel



1. INPUT 1 & 2 - Balanced 3-pin Euroblock and unbalanced RCA line-level input connectors.

2. USB - This allows you to use the PC-based PowerShare™ Editor Software to configure the advanced features of the amplifier. The CONFIG DIP switch must be set to SOFTWARE to configure the amplifer using the PowerShare Editor Software.

3. CHANNEL 1 & 2 EQ - Each dial provides loudspeaker equalization presets per channel: DS 16, DS 40, DS 100, FS3B, 402, 802, MA12EX, RMU105, and RMU108. Use the Flat setting for FS3 Systems. When EQ is selected, the Vpeak and Vrms limiters for that loudspeaker are automatically loaded. Use the PowerShare Editor Software to adjust any of these parameters. In Hi-Z output mode, a 50 Hz high pass filter (HPF) is automatically added to the Hi-Z selected outputs. The loudspeaker EQ is applied after the 50 Hz HPF.

4. CONTROLCENTER - RJ-45 input connector for Bose® CC-1 ControlCenter Zone Controllers or CV41 4-to-1 Converter only. Do not use this input to connect to a network.

5. MUTE - Contact closure connection where a short across the mute connector will mute all outputs. This is the Normally Open (NO) default state. The mute polarity can be inverted to Normally Closed (NC), where an open across the mute connector will mute all outputs, using the PowerShare Editor Software.

6. DIP Switches - Used to set the amplifier configuration. All switches set to the left position is the standard configuration.

- AUTO STANDBY - If enabled (ON), the amplifier goes into standby mode after twenty minutes without an input signal. If in standby mode and an audio signal is detected, the amplifier will automatically wake and amplify audio within 1 second. The OFF position disables this feature.
- GLOBAL OUT - Sets the output capability to 70 Vrms or 100 Vrms, for all outputs that have their OUTPUT DIP switch set to HI Z. In 70 Vrms mode, a 100 Vpeak limiter is automatically loaded. In 100 Vrms mode, a 141 Vpeak limiter is automatically loaded.
- CONFIG - In REAR mode, the rear panel EQ settings are all that are required to configure the amplifier. In SOFTWARE mode, the PowerShare Editor Software configures the amplifier, and the rear panel EQ switches are ignored. The rest of the DIP switch settings are independent of the PowerShare Editor Software settings.
- SENSITIVITY - Select 4 dBu or 12 dBu as the amplifier sensitivity for the Euroblock line-level inputs. The unbalanced RCA input sensitivity is -10 dBV in the 4 dBu sensitivity setting, and -2 dBV in the 12 dBu sensitivity setting.
- OUTPUT 1 - Select 70/100 V high impedence output (HI Z) or 4-8 ohm low impedence output (LOW Z).
- OUTPUT 2 - Select 70/100 V high impedence output (HI Z) or 4-8 ohm low impedence output (LOW Z).

7. OUTPUT 1 & 2 TRIM - Output attenuators for each output. Fully clockwise is 0 dB attenuation; fully counter-clockwise is mute. If CC-1 Zone Controller(s) are used, then the CC-1 becomes the master volume control(s). The position of each trim will determine the CC-1 Zone Controller range for that output. Set each trim to 0 dB attenuation to allow each CC-1 Zone Controller to have full attenuation range. If the CC-1 is disconnected from the amplifier, then the output trim setting becomes active.

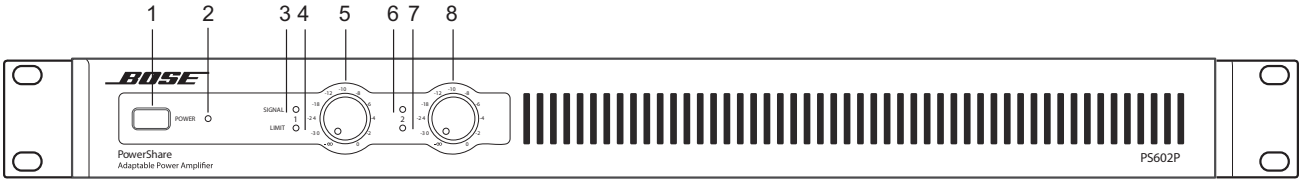
8. OUTPUT - Two inverted 2-pin Euroblock connectors for loudspeaker connections. Each channel can deliver up to 600 Watts regardless of load into 4 ohms, 8 ohms, 70 V RMS, or 100 V RMS. Outputs are not bridgeable.

Product Description

PowerShare™ PS602P

The PS602P is a 2-channel portable amplifier that allows its total 600 Watts to be shared asymmetrically across both outputs. Independently control the output level, EQ, and low-impedance/high-impedance (Low-Z/Hi-Z) settings for each output. The PS602P supports built-in loudspeaker EQs for many Bose® Professional loudspeakers as well as a Flat setting. For more customization, use the processing features in the free web-downloadable PowerShare Editor Software.

PS602P Front Panel



1. POWER Switch - ON/OFF AC power.

2. POWER LED - Solid green LED indicates the unit is ON. Blinking green LED indicates the unit is in standby mode. Solid amber LED indicates an over-temperature fault. A solid red LED indicates a power supply fault.

3 & 6. INPUT 1 & 2 SIGNAL LED - Each LED operates independently.

Relative to each line-level balanced Euroblock input:

• If the SENSITIVITY DIP switch is set to 4 dBu, then the LED is green from -48 dBu to 8.99 dBu, with a typical input of 4 dBu. LED is amber from 9 dBu to 11.99 dBu. LED goes red, indicating input clipping, at 12 dBu or over.

• If the SENSITIVITY DIP switch is set to 12 dBu, then the LED is green from -48 dBu to 16.99 dBu, with a typical input of 12 dBu. LED is amber from 17 dBu to 19.99 dBu. LED goes red, indicating input clipping, at 20 dBu or over.

Relative to each line-level unbalanced RCA input:

• If the SENSITIVITY DIP switch is set to 4 dBu, then the LED is green from -62 dBV to -6 dBV, with a typical input of -10 dBV. LED is amber from -5.99 dBV to -3 dBV. LED goes red, indicating input clipping, at -2.99 dBV or over.

• If the SENSITIVITY DIP switch is set to 12 dBu, the LED is green from -62 dBV to 2.99 dBV, with a typical input of -2 dBV. LED is amber from 3 dBV to 5.99 dBu. LED goes red, indicating input clipping, at 6 dBV or over

• Both LEDs will go solid red if a power supply fault is detected.

4 & 7. OUTPUT 1 & 2 LIMIT LED - Each LED operates independently.

• LED is amber when the amplifier is limiting the corresponding output due to exceeding the specified loudspeaker Vpeak or Vrms limits on an individual channel. If the sum of the amplifier outputs exceeds 600 Watts peak, then the amplifier will limit all outputs equally, and all LEDs will show limiting simultaneously. This is because the amplifier is also measuring and limiting total output power, in addition to individual channel output power. The amplifier is capable of delivering one-third (1/3) power continuously, 200 Watts peak.

• Each OUTPUT LIMIT LED will go solid red if there is an EHF fault on the corresponding output.

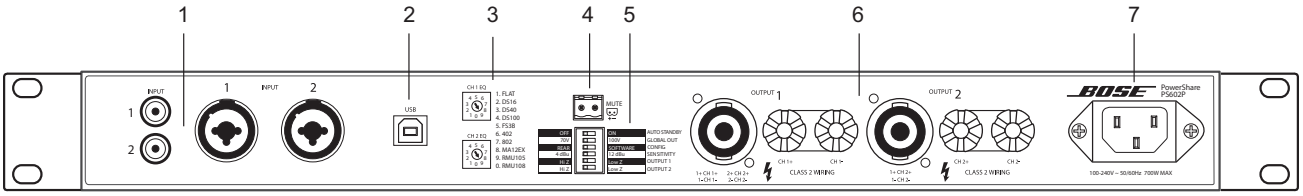
• Both LEDs will go solid red when all outputs are muted due to an amplifier fault, or if there is a power supply fault.

• Both LEDs will bink red when all outputs are muted from the rear panel mute connector.

5 & 8. OUTPUT 1 & 2 LEVEL Control - Output attenuator for each output. Turn the controls clockwise to decrease attenuation and counter clockwise to increase attenuation. Fully clockwise is 0 dB attenuation, fully couter-clockwise is mute. The controls are marked in dB of attenuation. There are 21 detents with the first 12 steps spaced by 1 dB, the next two steps spaced by 2 dB, the following two steps spaced by 3 dB, and the last two steps spaced by 4 dB, for a total attenuation range of 30 dB prior to muting. The two most counterclockwise steps are mute.

Product Description

PS602P Rear Panel



1. INPUT 1 & 2 - Balanced XLR/TRS and unbalanced RCA line-level input connectors. Use either balanced or unbalanced input type, but not both simultaneously per input channel.

2. USB - This allows you to use the PC-based PowerShare™ Editor Software to configure the advanced features of the amplifier. The CONFIG DIP switch must be set to SOFTWARE to configure the amplifer using the PowerShare Editor Software.

3. CHANNEL 1 & 2 EQ - Each dial provides loudspeaker equalization presets per channel: DS 16, DS 40, DS 100, FS3B, 402, 802, MA12EX, RMU105, and RMU108. Use the Flat setting for FS3 Systems, or for loudspeakers that are not Bose or that do not require EQ. When EQ is selected, the Vpeak and Vrms limiters for that loudspeaker are automatically loaded. Use the PowerShare Editor Software to adjust any of these parameters. In Hi-Z output mode, a 50 Hz high pass filter (HPF) is automatically added to the Hi-Z selected outputs. The loudspeaker EQ is applied after the 50 Hz HPF.

4. MUTE - Contact closure connection where a short across the mute connector will mute all outputs. This is the Normally Open (NO) default state. The mute polarity can be inverted to Normally Closed (NC), where an open across the mute connector will mute all outputs, using the PowerShare Editor Software.

5. DIP Switches - A bank of switches used to set the amplifier configuration. All switches set to the left position is the standard configuration.

- AUTO STANDBY - If enabled (ON), the amplifier goes into standby mode after twenty minutes without an input signal. If in standby mode and an audio signal is detected, the amplifier will automatically wake and amplify audio within 1 second. The OFF position disables this feature.
- GLOBAL OUT - Sets the output capability to 70 Vrms or 100 Vrms, for all outputs that have their OUTPUT DIP switch set to HI Z. In 70 Vrms mode, a 100 Vpeak limiter is automatically loaded. In 100 Vrms mode, a 141 Vpeak limiter is automatically loaded.
- CONFIG - In REAR mode, only the rear panel EQ settings are required to configure the amplifier. In SOFTWARE mode, the PowerShare Editor Software configures the amplifier, and the rear panel EQ switches are ignored. The rest of the DIP switch settings are always independent of the PowerShare Editor Software settings.
- SENSITIVITY - Select 4 dBu or 12 dBu as the amplifier sensitivity for the XLR/TRS line-level inputs. The unbalanced RCA input sensitivity is -10 dBV in the 4 dBu sensitivity setting, and -2 dBV in the 12 dBu sensitivity setting.
- OUTPUT 1 - Select 70/100 V high impedence output (HI Z) or 4-8 ohm low impedence output (LOW Z) for OUTPUT 1.
- OUTPUT 2 - Select 70/100 V high impedence output (HI Z) or 4-8 ohm low impedence output (LOW Z) for OUTPUT 2.

6. OUTPUT - NL4 and binding post outputs for each output. NL4 OUTPUT 1 combines both outputs, while NL4 OUTPUT 2 is only for OUTPUT 2. This gives access to both outputs on one NL4 four-conductor cable from NL4 OUTPUT 1, or two NL2 two-conductor cables can be connected to each output instead. Each channel can deliver up to 600 Watts regardless of load into 4 ohms, 8 ohms, 70 V RMS, or 100 V RMS. Outputs are not bridgeable.

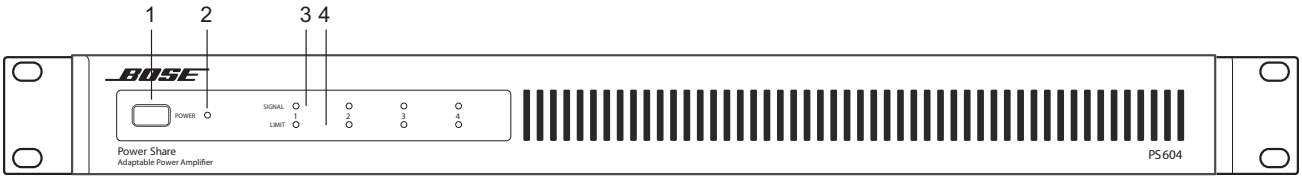
7. AC Inlet – Removing the AC cord when the amplifier is on is equivalent to powering down using the front panel power switch, and is an acceptable power-down method.

Product Description

PowerShare™ PS604

The PS604 is a 4-channel installed amplifier that allows its total 600 Watts to be shared asymmetrically across all four outputs. Independently control the output level, EQ, and low-impedance/high-impedance (Low-Z/Hi-Z) settings for each output. The PS604 supports built-in loudspeaker EQs for the FreeSpace® DS 16, DS 40, DS 100, FS3B, Panaray® 402 and 802 Series IV, MA12EX, and RoomMatch® Utility RMU105 and RMU108, as well as a Flat setting for FS3 systems. For applications that require more customization, access the advanced digital loudspeaker processing features using the free web-downloadable PowerShare Editor Software. The PS604 also supports up to four gangable CC-1 ControlCenter Zone Controllers for remote volume control using CAT-5 cables.

PS604 Front Panel



1. POWER Switch - ON/OFF AC power.
2. POWER LED - Solid green LED indicates the unit is ON. Blinking green LED indicates the unit is in standby mode. Solid amber LED indicates an over-temperature fault. A solid red LED indicates a power supply fault.
3. INPUT 1, 2, 3, 4 SIGNAL LED - Each LED operates independently.

- If the SENSITIVITY DIP switch is set to 4 dBu, then the LED is green from -48 dBu to 8.99 dBu, with a typical input of 4 dBu. LED is amber from 9 dBu to 11.99 dBu. LED goes red, indicating input clipping, at 12 dBu or over.
- If the SENSITIVITY DIP switch is set to 12 dBu, then the LED is green from -48 dBu to 16.99 dBu, with a typical input of 12 dBu. LED is amber from 17 dBu to 19.99 dBu. LED goes red, indicating input clipping, at 20 dBu or over

All LEDs go solid red if a power supply fault is detected.

4. OUTPUT 1, 2, 3, 4 LIMIT LED - Each LED operates independently.

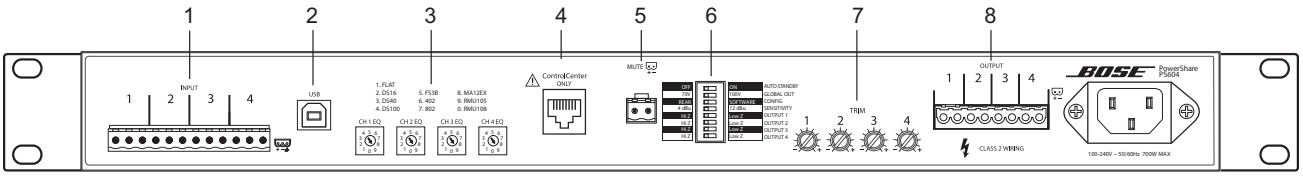
- LED is amber when the amplifier is limiting the corresponding output due to exceeding the specified loudspeaker Vpeak or Vrms limits on an individual channel.

If the sum of the amplifier outputs exceeds 600 Watts peak, then the amplifier will limit all outputs equally, and all LEDs will show limiting simultaneously. This is because the amplifier is also measuring and limiting total output power, in addition to individual channel output power. The amplifier is capable of delivering one-third (1/3) power continuously, 200 Watts peak.

- Each OUTPUT LIMIT LED will go solid red if there is an EHF fault on the corresponding output. LED 1 & 2 will go solid red when the outputs are muted due to an amplifier one fault. LED 3 & 4 will go solid red when the outputs are muted due to an amplifier two fault.
- All four LEDs will go solid red when all outputs are muted due to an amplifier fault, or if there is a power supply fault
- All four LEDs will blink red when all outputs are muted from the rear panel mute connector.

Product Description

PS604 Rear Panel



1. INPUT - Balanced 12-pin Euroblock line-level input connector.
2. USB - This allows you to use the PC-based PowerShare™ Editor Software to configure the advanced features of the amplifier. The CONFIG DIP switch must be set to SOFTWARE to configure the amplifer using the PowerShare Editor Software.
3. CHANNEL 1, 2, 3, 4 EQ - Each dial provides loudspeaker equalization presets per channel. Use the Flat setting for loudspeakers that are not Bose® or that do not require EQ. When EQ is selected, the Vpeak and Vrms limiters for that loudspeaker are automatically loaded. Use the PowerShare Editor Software to adjust any of these parameters. In Hi-Z output mode, a 50 Hz high pass filter (HPF) is automatically added to the Hi-Z selected outputs. The loudspeaker EQ is applied after the 50 Hz HPF.
4. CONTROLCENTER - RJ-45 input connector for Bose CC-1 ControlCenter Zone Controllers or CV41 4-to-1 Converter only. Do not use this input to connect to a network.
5. MUTE - Contact closure connection where a short across the mute connector will mute all outputs. This is the Normally Open (NO) default state. The mute polarity can be inverted to Normally Closed (NC), where an open across the mute connector will mute all outputs, using the PowerShare Editor Software.
6. DIP Switches - A bank of switches used to set the amplifier configuration. All switches set to the left position is the standard configuration.

- AUTO STANDBY - If enabled (ON), the amplifier goes into standby mode after twenty minutes without an input signal. If in standby mode and an audio signal is detected, the amplifier will automatically wake and amplify audio within 1 second. The OFF position disables this feature.
- GLOBAL OUT - Sets the output capability to 70 Vrms or 100 Vrms, for all outputs that have their OUTPUT DIP switch set to HI Z. In 70 Vrms mode, a 100 Vpeak limiter is automatically loaded. In 100 Vrms mode, a 141 Vpeak limiter is automatically loaded. These are maximum values that can be lowered using the PowerShare Editor Software.
- CONFIG - In REAR mode, only the rear panel EQ settings are required to configure the amplifier. In SOFTWARE mode, the PowerShare Editor Software configures the amplifier, and the rear panel EQ switches are ignored. The rest of the DIP switch settings are always independent of the PowerShare Editor Software settings, as the software does not interface with any other DIP switches.
- SENSITIVITY - Select 4 dBu or 12 dBu as the amplifier sensitivity for the line-level inputs.
- OUTPUTS 1-4 - Select 70/100V high impedence output (HI Z) or 4-8 ohms low impedence output (LOW • Z).

7. OUTPUT 1, 2, 3, 4 TRIM - Output attenuators for each output. Turn the trims clockwise to decrease attenuation, and counter-clockwise to increase attenuation. Fully clockwise is 0 dB attenuation; fully counter-clockwise is mute. If CC-1 Zone Controller(s) are used, then the CC-1 becomes the master volume control(s). The position of each trim will determine the CC-1 Zone Controller range for that output. Set each trim to 0 dB attenuation to allow each CC-1 Zone Controller to have full attenuation range. If the CC-1 is disconnected from the amplifier, then the output trim setting becomes active.
8. OUTPUT - Inverted 8-pin Euroblock connectors for loudspeaker connections. Each channel can deliver up to 600 Watts regardless of load into 4 ohms, 8 ohms, 70 Vrms, or 100 Vrms. Outputs are not bridgeable.

Manufactured Versions

PowerShare™ Amplifier Versions

Material Master Number	Description
743375-0410	POWERSHARE 2300 PRO AMP NO PC
743375-1410	POWERSHARE 2300 PRO AMP 120V NA
743375-2410	POWERSHARE 2300 PRO AMP 230V EU
743375-3410	POWERSHARE 2300 PRO AMP 100V JP
743375-4410	POWERSHARE 2300 PRO AMP 230V UK
743375-5410	POWERSHARE 2300 PRO AMP 240V AU
743376-0410	POWERSHARE 2300P TPORT PRO AMP NO PC
743376-1410	POWERSHARE 2300P TPORT PRO AMP 120V NA
743376-2410	POWERSHARE 2300P TPORT PRO AMP 230V EU
743376-3410	POWERSHARE 2300P TPORT PRO AMP 100V JP
743376-4410	POWERSHARE 2300P TPORT PRO AMP 230V UK
743376-5410	POWERSHARE 2300P TPORT PRO AMP 240V AU
743382-0410	POWERSHARE 4150 PRO AMP NO PC
743382-1410	POWERSHARE 4150 PRO AMP 120V NA
743382-2410	POWERSHARE 4150 PRO AMP 230V EU
743382-3410	POWERSHARE 4150 PRO AMP 100V JP
743382-4410	POWERSHARE 4150 PRO AMP 230V UK
743382-5410	POWERSHARE 4150 PRO AMP 240V AU

PowerShare Zone Controllers

ControlCenter Zone Controllers		
Material #	**Model**	**Windchill/SAP Description**
768928-0010	CV41	ControlCenter CV41 4 to 1 Converter
768932-0110	CC-1	ControlCenter CC-1 US Black
768932-0210	CC-1	ControlCenter CC-1 US White
768932-2110	CC-1	ControlCenter CC-1 EU Black
768932-2210	CC-1	ControlCenter CC-1 EU White
768932-3110	CC-1	ControlCenter CC-1 JP Black
768932-3210	CC-1	ControlCenter CC-1 JP White
768938-0110	CC-2	ControlCenter CC-2 US Black
768938-0210	CC-2	ControlCenter CC-2 US White
768938-2110	CC-2	ControlCenter CC-2 EU Black
768938-2210	CC-2	ControlCenter CC-2 EU White
768938-3110	CC-2	ControlCenter CC-2 JP Black
768938-3210	CC-2	ControlCenter CC-2 JP White
768941-0110	CC-3	ControlCenter CC-3 US Black
768941-0210	CC-3	ControlCenter CC-3 US White
768941-2110	CC-3	ControlCenter CC-3 EU Black
768941-2210	CC-3	ControlCenter CC-3 EU White
768941-3110	CC-3	ControlCenter CC-3 JP Black
768941-3210	CC-3	ControlCenter CC-3 JP White

Note: The PowerShare Controllers are finished goods accessories, and will not be repaired. Replacement only.

SPECIFICATIONS

Technical Specifications

Power Rating			
	PS602	PS602P	PS604
Amplifier Power	2 x 300 W @ 4-8 Ω, 70/100 V	2 x 300 W @ 4-8 Ω, 70/100 V	4 x 150 W @ 4-8 Ω, 70/100 V
Audio Performance			
Frequency Response	4-8 Ω: 20 Hz – 20 kHz (+0/–1 dB, @ 1 W 4 Ω); 70/100 V: 50 Hz - 20 kHz (+0.5/-0.5 dB, @ 1 W)		
THD+N	≤ 0.1 % (1 kHz, at rated full power, 8Ω); ≤ 0.5% (1 kHz, at rated full power, 70/100 V)		
Channel Separation (Crosstalk)	>75 dB @ 1 kHz, >55 dB @ 20 kHz		
Dynamic Range	98 dB, 4 Ω		
Integrated DSP			
A/D and D/A Converters	24-bit / 48 kHz		
Processing Functions	Standard mixer, loudspeaker EQ, room EQ, Vpeak/Vrms limiters, delay, crossover, phase inversion (per channel)		
Loudspeaker Presets	DS 16, DS 40, DS 100, FS3B, Panaray® 402 and 802 Series IV, MA12X, RoomMatch® Utility RMU105, Flat		
Audio Latency	14 ms (any input to speaker output)		
Audio Inputs			
	PS602	PS602P	PS604
Input Channels	2 unbalanced, 2 balanced	2 unbalanced, 2 balanced	4 balanced
Connectors	Stereo RCA, 3-pin Euroblock	Stereo RCA, XLR with 1/4" combo	3-pin Euroblock
Input Range	4 to 20 dBu (Euroblock); -10 to 6 dBV (RCA)	4 to 20 dBu (Euroblock); -10 to 6 dBV (RCA)	4 to 20 dBu (Euroblock)
Adjustment Range (RCA)	-10 to -2 dBV, -2 to 6 dBV (RCA)	-10 to -2 dBV, -2 to 6 dBV (RCA)	N/A
Adjustment Range (Euroblock)	4 to 12 dBu, 12 to 20 dBu	4 to 12 dBu, 12 to 20 dBu	4 to 12 dBu, 12 to 20 dBu
Input Impedance	10 kΩ (RCA), 20 kΩ (Euroblock, XLR)		
Maximum Input Level	6 dBV / 8.2 dBu (RCA); 20 dBu (Euroblock)		
Sensitivity	-10 dBV / -7.8 dBu (RCA), 4 dBu (Euroblock)		
Audio Outputs			
	PS602	PS602P	PS604
Outputs	2	2	4
Connectors	2-pin inverted Euroblock	NL4 & binding posts	2-pin inverted Euroblock
Indicators and Controls			
Power LED	Solid green indicates power is on. Blinking green indicates standby mode. Solid amber indicates an over-temperature fault. Solid red indicates a power supply fault.		
Input Signal LED	See Front and Rear Panel section for each amplifier for details.		
Output Limit LED	See Front and Rear Panel section for each amplifier for details.		
Controls, Front Panel	Power On/Off, Output Level Control (PS602P only)		
Controls, Rear Panel	Amplifier mode DIP switches, loudspeaker EQ dials, output trims (PS602 and PS604 only)		
Electrical			
Mains Voltage	100 VAC – 240 VAC (±10%, 50/60 Hz)		
AC Power Consumption	120 VAC: 79 W (Standby), 324 W (Max)	230 VAC: 88 W (Standby), 384 W (Max)	
Mains Connector	Standard IEC (C14)		
Maximum Inrush Current	PS602: 12.33 A (230 VAC / 50 Hz), 8.27 A (120 VAC / 60 Hz) PS602P: 14.14 A (230 VAC / 50 Hz), 8.04 A (120 VAC / 60 Hz) PS604: 11.79 A (230 VAC / 50 Hz), 11.72 A (120 VAC / 60 Hz)		
Overload Protection	High temperature, output short, excessively low or high AC line voltage		
Physical			
Dimensions	44 mm H x 483 mm W x 414 mm D (1.7" H x 19.0" W x 16.3" D)		
Shipping Weight	PS602 and PS602P: 6.9 kg (15.3 lb); PS604: 7.8 kg (17.2 lb)		
Net Weight	PS602 and PS602P: 5.5 kg (12.2 lb); PS604: 6.4 kg (14.1 lb)		
Cooling System	Variable speed fans create continuous left-to-right air flow		
General			
Inputs (Control)	RJ-45 remote input for volume control using the CC-1 ControlCenter Zone Controllers (PS602 and PS604 only), or for connection to the CV41. USB input for configuring the amplifier with PowerShare Editor Software. Mute input control via a normally open contact closure		

PACKAGING PART LIST

PowerShare™ P602, P602P and P604 Amplifiers

Item Number	Description	Part Number	Note
1	PE FOAM INSERT, FRONT, SVCE	770268-001S	
2	CARTON, AMP ASSY, PS602, SVCE	770265-001S	
	CARTON, AMP ASSY, PS602P, SVCE	770266-001S	
	CARTON, AMP ASSY, PS604, SVCE	770263-001S	
3	GUIDE, INSTALL, PS602, PS602P, PS604	771027-0010	
4	CARTON, LINE CORD ACCESSORIES, SVCE	770269-001S	Qty.2
5	KIT, CONNECTOR, PS602, SVCE	774898-001S	
	KIT, CONNECTOR, PS602P, SVCE	774899-001S	
	KIT, CONNECTOR, PS604, SVCE	774900-001S	
6	PE FOAM INSERT, REAR, SVCE	770267-001S	
7	BAG, POLY, PS602/602P/604	-	
8	AC LINE CORD, US	350745-0010	3
	AC LINE CORD, EU	350747-0010	
	AC LINE CORD, JP	350749-0020	⚠
	AC LINE CORD, UK	350748-0010	
	AC LINE CORD, AUS	350746-0010	

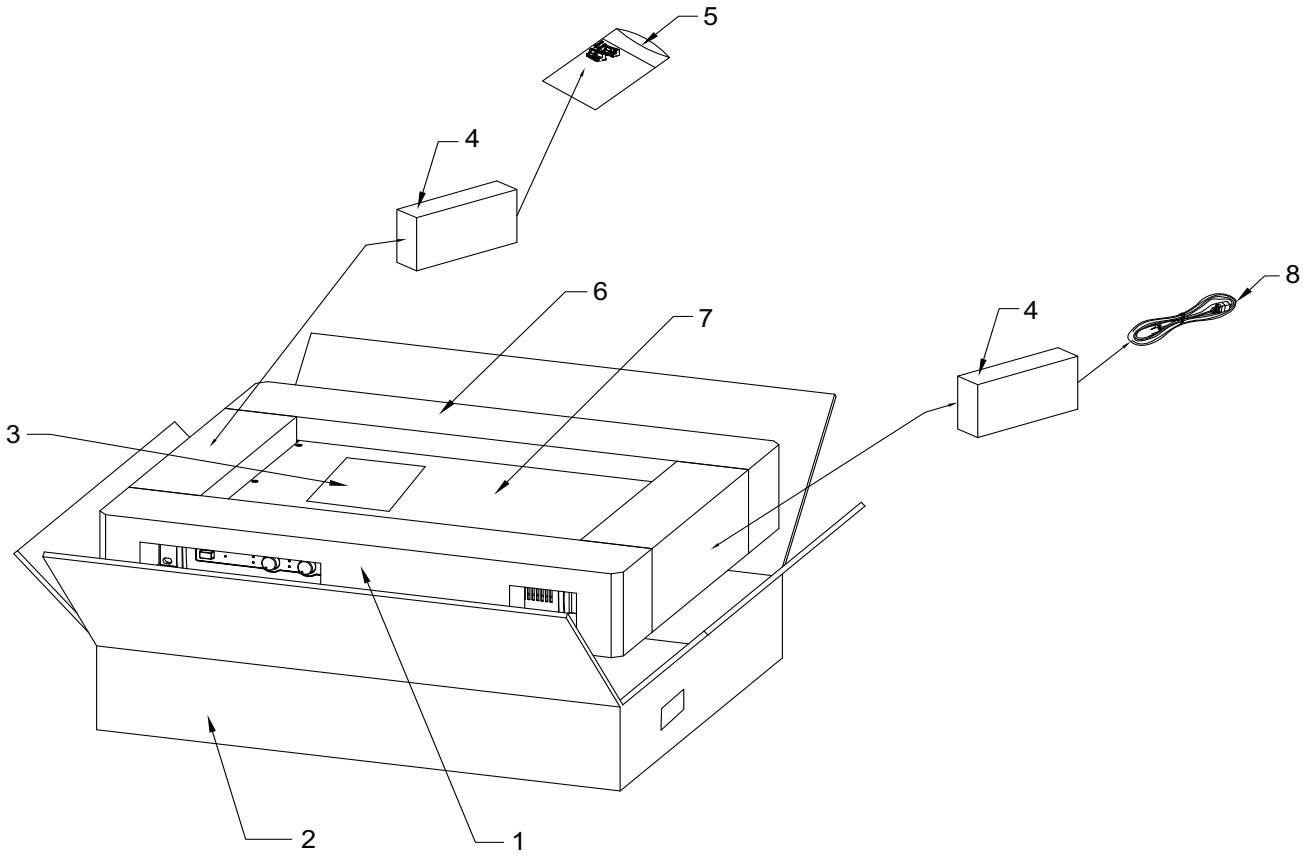


Figure 1. Packing View

MAIN PART LIST

PowerShare™ PS602 (refer to Figure 2)

Item Number	Description	Part Number	Qty.	Note
1	ASSY, TOP COVER, K2/K2P, SVCE	748388-011S	1	
2	SCREW, TOP COVER	-	12	
3	FAN, DC 5V, 5400 RPM	748033-001S	2	
4	PCB ASSY, P/S, K2, K2P, SVCE	747922-001S	1	
5	SWITCH, ON-OFF	748030-0010	1	3 ⚠
6	PUSH KNOB	748029-0110	1	
7	BEZEL, PLASTIC, FRONT, AMP, K2, SVCE	747903-011S	1	
8	PCB ASSY, LED, K2, SVCE	747971-001S	1	
9	PANEL, FRONT, K2, SVCE	747851-011S	1	
10	RACK EAR, FRONT	748545-011S	2	
11	PCB ASSY, AMPLIFIER	732946-0010	1	
12	PCB ASSY, DSP, K2, SVCE	747927-001S	1	
13	BRACKET, REAR	747855-011S	2	
14	PCB ASSY, REAR, K2, SVCE	747965-001S	1	
15	CONN, ASSY, IEC, FS4400, SERVICE	301396	1	3 ⚠
-	PCB ASSY, REAR PANEL OUTPUT, K2, SVCE	747953-001S	1	
-	ASSY, SWITCH AND BUTTON W/HARNESS, SVCE	748075-001S	1	
-	ASSY, CABLE FCC, AMP TO DSP, 95LG, 10-PIN	765531-001S	1	
-	ASSY, CABLE FCC, AMP TO DSP, 250LG, 20-PIN	765532-002S	1	
-	ASSY, CABLE FCC, R PNL TO DSP, 150LG, 20-PIN	765535-003S	1	
-	ASSY, CABLE FCC, R PNL TO DSP, 160LG, 20-PIN	765535-004S	1	
-	ASSY, HARNESS, DSP TO PS, 70LG, 6-PIN	765536-001S	2	
-	ASSY, HARNESS, AMP TO PS, 3-PIN	765538-001S	1	
-	ASSY, CABLE, GROUND INLET	765540-001S	1	3 ⚠
-	ASSY, HARNESS, IEC TO SWITCH	765541-001S	1	3 ⚠
-	ASSY, CABLE, SWITCH TO PS	774336-001S	1	3 ⚠

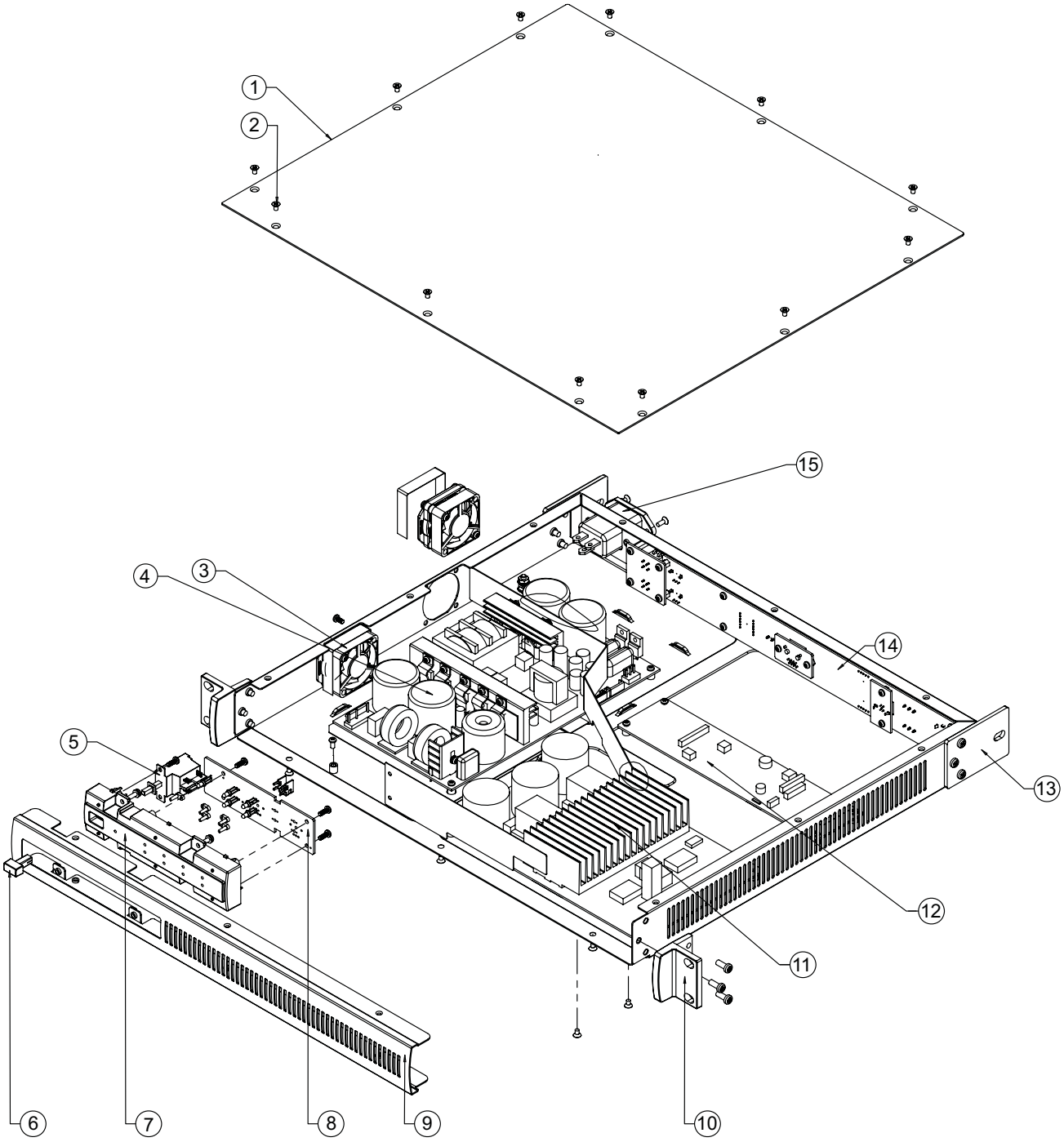


Figure 2. PowerShare™ PS602 Exploded View

MAIN PART LIST

PowerShare™ PS602P (refer to Figure 3)

Item Number	Description	Part Number	Qty.	Note
1	ASSY, TOP COVER, K2/K2P, SVCE	748388-011S	1	
2	SCREW, TOP COVER	-	12	
3	FAN, DC 5V, 5400 RPM	748033-001S	2	
4	PCB ASSY, P/S, K2, K2P, SVCE	747922-001S	1	
5	SWITCH, ON-OFF	748030-0010	1	3 ⚠
6	PUSH KNOB	748029-0110	1	
7	BEZEL, PLASTIC, FRONT, AMP, K2P, SVCE	747903-012S	1	
8	KNOB, VOLUME	768036-011S	2	
9	PANEL, FRONT, AMP, K2P, SVCE	747851-012S	1	
10	RACK EAR, FRONT	748545-011S	2	
11	PCB ASSY, AMPLIFIER	732946-0010	1	
12	PCB ASSY, DSP, K2P, SVCE	748233-001S	1	
13	BRACKET, REAR	747855-011S	2	
14	PCB ASSY, REAR PANEL INPUT, K2P, SVCE	748296-001S	1	
15	PCB ASSY, REAR, K2P, SVCE	748294-001S	1	
16	PCB ASSY, REAR PANEL OUTPUT, K2P, SVCE	748291-001S	1	
17	CONN, ASSY, IEC, FS4400, SERVICE	301396	1	3 ⚠
-	PCB ASSY, LED, K2P, SVCE	747986-001S	1	
-	ASSY, SWITCH AND BUTTON W/HARNESS, SVCE	748075-001S	1	3 ⚠
-	ASSY, CABLE FCC, AMP TO DSP, 95LG, 10-PIN	765531-001S	1	
-	ASSY, CABLE FCC, AMP TO DSP, 250LG, 20-PIN	765532-002S	1	
-	ASSY, CABLE FCC, R PNL TO DSP, 130LG, 20-PIN	765535-002S	2	
-	ASSY, CABLE FCC, R PNL TO DSP, 150LG, 20-PIN	765535-003S	1	
-	ASSY, HARNESS, DSP TO PS, 70LG, 6-PIN	765536-001S	1	
-	ASSY, HARNESS, AMP TO PS, 3-PIN	765538-001S	1	
-	ASSY, CABLE, GROUND INLET	765540-001S	1	3 ⚠
-	ASSY, HARNESS, IEC TO SWITCH	765541-001S	1	3 ⚠
-	ASSY, CABLE, SWITCH TO PS	774336-001S	1	3 ⚠

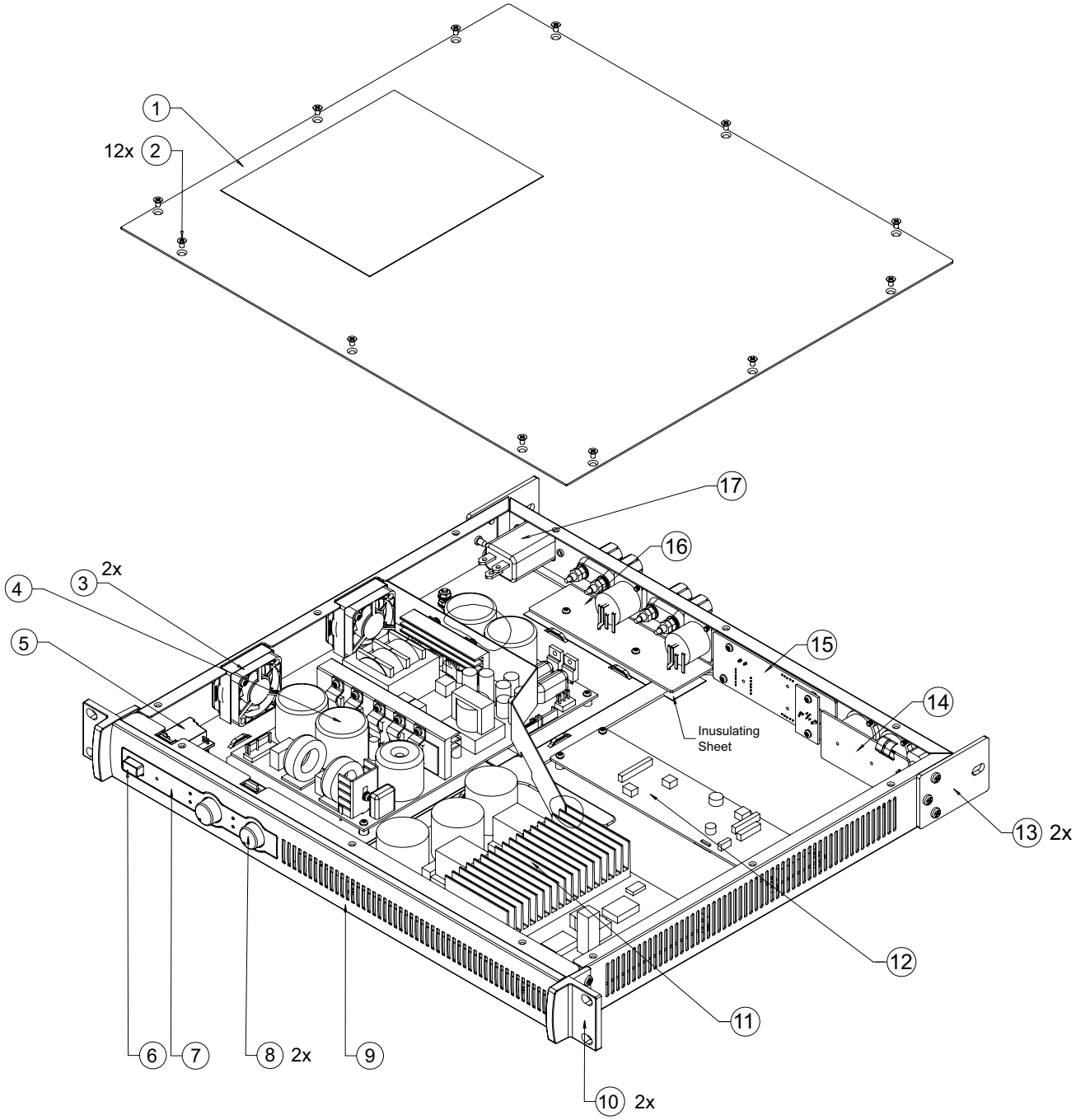


Figure 3. PowerShare™ PS602P Exploded View

MAIN PART LIST

PowerShare™ PS604 (refer to Figure 4)

Item Number	Description	Part Number	Qty.	Note
1	ASSY, TOP COVER, K2/K2P/K4, SVCE	748388-011S	1	
2	SCREW, TOP COVER	-	12	
3	FAN, DC 5V, 5400 RPM	748033-001S	2	
4	PCB ASSY, P/S, K4, SVCE	747922-001S	1	
5	SWITCH, ON-OFF	748030-0010	1	3 ⚠
6	PUSH KNOB	748029-0110	1	
7	BEZEL, PLASTIC, FRONT, AMP, K4, SVCE	747903-013S	1	
8	PANEL, FRONT, AMP, K4, SVCE	747851-013S	1	
9	RACK EAR, FRONT	748545-011S	2	
10	PCB ASSY, AMPLIFIER	732946-0010	2	
11	PCB, ASSY, DSP, K4, SVCE	748560-001S	1	
12	BRACKET, REAR	747855-011S	2	
13	PCB ASSY, REAR, K4, SVCE	747968-001S	1	
14	CONN, ASSY, IEC, FS4400, SERVICE	301396	1	3 ⚠
-	PCB ASSY, REAR PANEL OUTPUT, K4, SVCE	748568-001S	1	
-	PCB ASSY, LED, K4, SVCE	747987-001S	1	
-	ASSY, SWITCH AND BUTTON W/HARNESS, SVCE	748075-001S	1	3 ⚠
-	ASSY, CABLE FCC, AMP TO DSP, 95LG, 10-PIN	765531-001S	1	
-	ASSY, CABLE FCC, AMP TO DSP, 230LG, 10-PIN	765531-002S	1	
-	ASSY, CABLE FCC, AMP TO DSP, 190LG, 20-PIN	765532-001S	1	
-	ASSY, CABLE FCC, AMP TO DSP, 320LG, 20-PIN	765532-003S	1	
-	ASSY, CABLE FCC, R PNL TO DSP, 70LG, 20-PIN	765535-001S	2	
-	ASSY, HARNESS, DSP TO PS, 140LG, 6-PIN	765536-002S	1	
-	ASSY, HARNESS, AMP TO PS, DBL CONN, 3-PIN	765538-002S	1	
-	ASSY, CABLE, GROUND INLET	765540-001S	1	3 ⚠
-	ASSY, HARNESS, IEC TO SWITCH	765541-001S	1	3 ⚠
-	ASSY, CABLE, SWITCH TO PS	774336-001S	1	3 ⚠

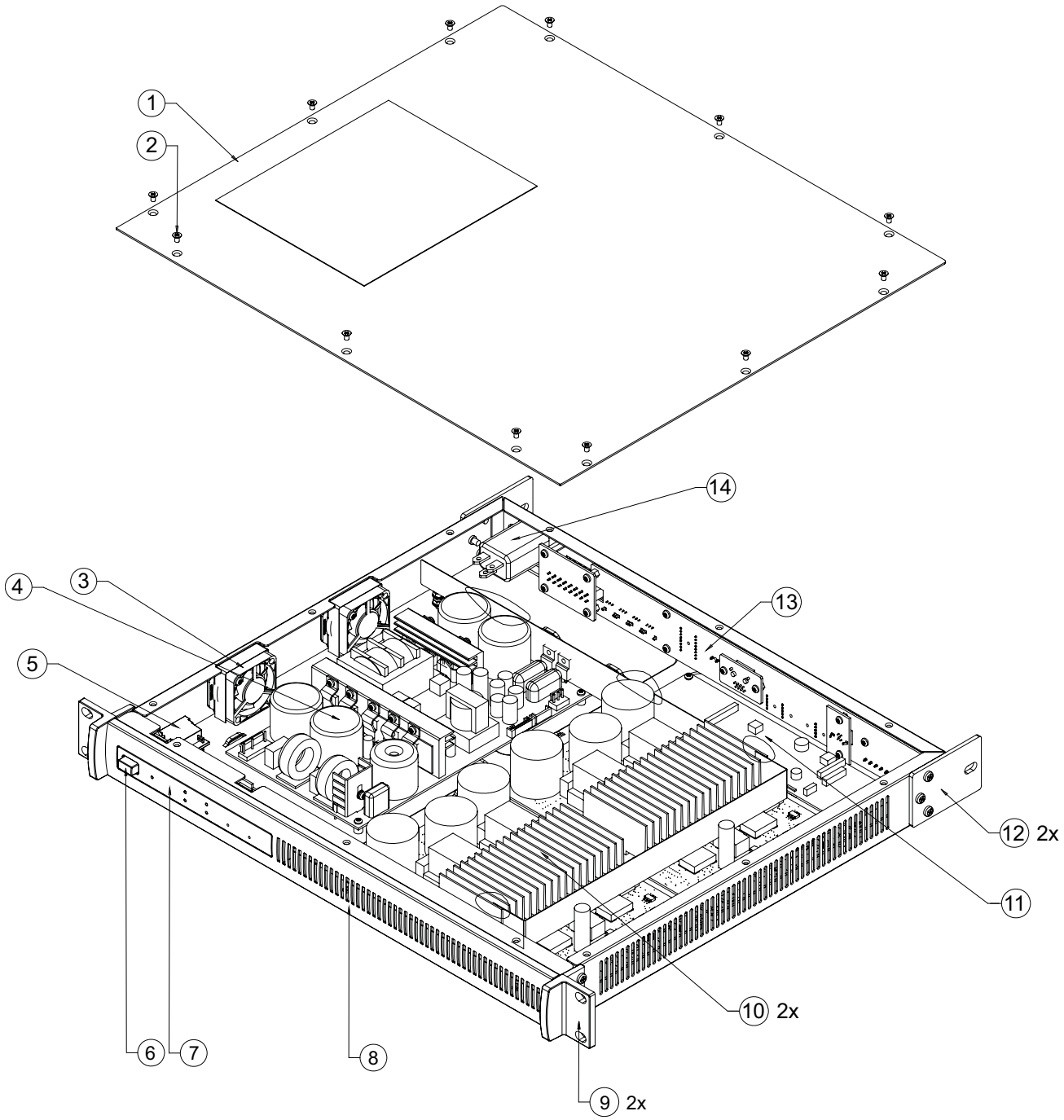


Figure 4. PowerShare™ PS604 Exploded View

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Resistors

Reference Designator	Description	Part Number	Note
R100	0603, .1W, 1%, 1K	191465-1001	
R101	0603, .1W, 1%, 20K	191465-2002	
R102	0603, .1W, 1%, 10K	191465-1002	
R103	0603, .1W, 1%, 33.2K	191465-3322	
R104	THERMISTOR, 0603, B4480, 5%, 100K	329730-104J	
R105	0603, .1W, 1%, 2K	191465-2001	
R106	0603, .1W, 1%, 3.01K	191465-3011	
R107	0603, .1W, 1%, 1.65K	191465-1651	
R108	0603, .1W, 1%, 10K	191465-1002	
R109	0603, .1W, 1%, 4.02K	191465-4021	
R110	0603, .1W, 1%, 200K	191465-2003	
R111	0603, .1W, 1%, 1.65K	191465-1651	
R112	0603, .1W, 1%, 10K	191465-1002	
R113	0603, .1W, 1%, 20K	191465-2002	
R114	0603, .1W, 1%, 100K	191465-1003	
R115	0603, .1W, 1%, 10K	191465-1002	
R116	0603, .1W, 1%, 1M	191465-1004	
R117	0603, .1W, 1%, 100K	191465-1003	
R118	0603, .1W, 1%, 100 OHM	191465-1000	
R119	0603, .1W, 1%, 10K	191465-1002	
R120	0603, .1W, 1%, 100 OHM	191465-1000	
R121	0603, .1W, 1%, 20K	191465-2002	
R122	0603, .1W, 1%, 10K	191465-1002	
R123	0603, .1W, 1%, 66.5K OHMS	191465-6652	
R124	0603, .1W, 1%, 8.66K	191465-8661	
R125	0603, .1W, 1%, 1K	191465-1001	
R126	0603, .1W, 1%, 3.01K	191465-3011	
R127	0603, .1W, 1%, 10K	191465-1002	
R128	0805, .125W, 1%, 150K	133625-1503	
R129	0603, .1W, 1%, 10K	191465-1002	
R130	0603, .1W, 1%, 10K	191465-1002	
R131	0603, .1W, 1%, 10K	191465-1002	
R132	0603, .1W, 1%, 100 OHM	191465-1000	
R133	0603, .1W, 1%, 10K	191465-1002	
R134	0603, .1W, 1%, 10K	191465-1002	
R135	0603, .1W, 1%, 1K	191465-1001	
R136	0603, .1W, 1%, 9.76K	191465-9761	
R137	0603, .1W, 1%, 1K	191465-1001	
R138	0603, .1W, 1%, 10K	191465-1002	
R139	0603, .1W, 1%, 64.9K	191465-6492	
R140	0603, 0.1W, 1%, 3.57k OHMS	191465-3571	
R141	0603, 0.1W, 1%, 3.57k OHMS	191465-3571	
R142	0603, .1W, 1%, 7.15K	191465-7151	
R143	0603, .1W, 1%, 7.15K	191465-7151	
R144	0603, .1W, 1%, 200K	191465-2003	
R145	0603, .1W, 1%, 200K	191465-2003	
R146	0805, .125W, 1%, 100K	133625-1003	
R147	0805, .125W, 1%, 100K	133625-1003	
R148	0603, .1W, 1%, 1K	191465-1001	
R149	0603, .1W, 1%, 10K	191465-1002	
R200	0805, .125W, 1%, 49.9K	133625-4993	
R201	0603, .1W, 1%, 1K	191465-1001	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Resistors (continued)

Reference Designator	Description	Part Number	Note
R202	0603, .1W, 1%, 1K	191465-1001	
R203	0805, .125W, 1%, 49.9K	133625-4993	
R204	0603, .1W, 1%, 1K	191465-1001	
R205	0603, .1W, 1%, 3.09K	191465-3091	
R206	0603, .1W, 1%, 1K	191465-1001	
R207	0805, .125W, 1%, 49.9K	133625-4993	
R208	0805, .125W, 1%, 49.9K	133625-4993	
R209	0603, .1W, 1%, 3.09K	191465-3091	
R210	0603, .1W, 1%, 3.09K	191465-3091	
R211	0603, .1W, 1%, 3.09K	191465-3091	
R212	0603, .1W, 1%, 2.15K OHM	191465-2151	
R213	0603, .1W, 1%, 2.15K OHM	191465-2151	
R214	0603, .1W, 1%, 14.7K	191465-1472	
R215	0603, .1W, 1%, 14.7K	191465-1472	
R216	0603, .1W, 1%, 14.7K	191465-1472	
R217	0603, .1W, 1%, 14.7K	191465-1472	
R218	0603, .1W, 1%, 30.1K	191465-3012	
R219	0603, .1W, 1%, 30.1K	191465-3012	
R220	0603, 0.1W, 1%, 1.30K	191465-1301	
R221	0603, 0.1W, 1%, 1.30K	191465-1301	
R222	0603, 0.1W, 1%, 1.30K	191465-1301	
R223	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R224	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R225	0603, 0.1W, 1%, 1.30K	191465-1301	
R226	0603, .1W, 1%, 30.1K	191465-3012	
R227	0603, .1W, 1%, 30.1K	191465-3012	
R228	0603, .1W, 1%, 2.0K	191465-2001	
R229	0603, .1W, 1%, 2.0K	191465-2001	
R230	0603, 0.1W, 1%, 374 OHMS	191465-3740	
R231	0603, 0.1W, 1%, 374 OHMS	191465-3740	
R232	0603, 0.1W, 1%, 976 OHMS	191465-9760	
R233	0603, .1W, 1%, 1K	191465-1001	
R234	0603, 0.1W, 1%, 976 OHMS	191465-9760	
R235	0603, .1W, 1%, 1.4K	191465-1401	
R236	0603, .1W, 1%, 1.4K	191465-1401	
R237	0603, .1W, 1%, 1K	191465-1001	
R238	0603, .1W, 1%, 1K	191465-1001	
R239	MR, 0603, 25ppm/C, 0.1W, 0.1%, 2K	765579-2001B	
R240	0603, .1W, 1%, 1K	191465-1001	
R241	MR, 0603, 25ppm/C, 0.1W, 0.1%, 2K	765579-2001B	
R242	0603, 100MW, 1%, 3.40 K	191465-3401	
R243	MR, 0603, 25ppm/C, 0.1W, 0.1%, 2K	765579-2001B	
R244	0603, 100MW, 1%, 3.40 K	191465-3401	
R245	MR, 0603, 25ppm/C, 0.1W, 0.1%, 2K	765579-2001B	
R246	MR, 0603, 25ppm/C, 0.1W, 0.1%, 2K	765579-2001B	
R247	0603, .1W, 1%, 100K	191465-1003	
R248	MR, 0603, 25ppm/C, 0.1W, 0.1%, 2K	765579-2001B	
R249	MR, 0603, 25ppm/C, 0.1W, 0.1%, 2K	765579-2001B	
R250	MR, 0603, 25ppm/C, 0.1W, 0.1%, 2K	765579-2001B	
R251	0603, 100MW, 1%, SMD, 825 OHM	191465-8250	
R252	0603, .1W, 1%, 422 OHMS	191465-4220	
R253	MR, 0805, 25ppm/C, 0.25W, 0.1%, 26.7K	765580-2672B	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Resistors (continued)

Reference Designator	Description	Part Number	Note
R254	MR, 0805, 25ppm/C, 0.25W, 0.1%, 26.7K	765580-2672B	
R255	0603, 100MW, 1%, SMD, 825 OHM	191465-8250	
R256	0603, 100MW, 1%, SMD, 825 OHM	191465-8250	
R257	0603, .1W, 1%, 1K	191465-1001	
R258	0603, .1W, 1%, 1K	191465-1001	
R259	MR, 0805, 25ppm/C, 0.25W, 0.1%, 26.7K	765580-2672B	
R260	MR, 0805, 25ppm/C, 0.25W, 0.1%, 26.7K	765580-2672B	
R261	0603, .1W, 1%, 422 OHMS	191465-4220	
R262	0603, .1W, 1%, 100K	191465-1003	
R266	0603, .1W, 1%, 1K	191465-1001	
R267	0603, 100MW, 1%, SMD, 825 OHM	191465-8250	
R268	0603, .1W, 1%, 20K	191465-2002	
R269	0603, .1W, 1%, 20K	191465-2002	
R270	0603, .1W, 1%, 649 OHMS	191465-6490	
R273	0603, 0.1W, 1%, 66.5 ohm	191465-66R5	
R274	0603, .1W, 1%, 20K	191465-2002	
R276	0603, .1W, 1%, 649 OHMS	191465-6490	
R277	0603, 0.1W, 1%, 59 OHMS	191465-59R0	
R278	0603, .1W, 1%, 1K	191465-1001	
R279	0603, 0.1W, 1%, 1.74k OHMS	191465-1741	
R280	0603, 0.1W, 1%, 34.8 OHMS	191465-34R8	
R281	0603, .1W, 1%, 28 0HM	191465-28R0	
R283	0603, 0.1W, 1%, 66.5 OHMS	191465-66R5	
R284	0603, .1W, 1%, 20K	191465-2002	
R285	0603, 0.1W, 1%, 66.5 OHMS	191465-66R5	
R286	0603, 0.1W, 1%, 1.47K	191465-1471	
R287	0603, 0.1W, 1%, 59 OHMS	191465-59R0	
R288	0603, 0.1W, 1%, 1.74kOHMS	191465-1741	
R289	0603, 0.1W, 1%, 34.8 OHMS	191465-34R8	
R290	0603, .1W, 1%, 28 OHMS	191465-28R0	
R291	0603, .1W, 1%, 100 OHMS	191465-1000	
R292	0603, .1W, 1%, 100 OHMS	191465-1000	
R293	0603, 0.1W, 1%, 59 OHMS	191465-59R0	
R294	0603, 0.1W, 1%, 66.5 OHMS	191465-66R5	
R295	0603, 0.1W, 1%, 1.47K	191465-1471	
R296	0603, 0.1W, 1%, 59 OHMS	191465-59R0	
R297	0603, .1W, 1%, 2.15K OHM	191465-2151	
R298	0603, .1W, 1%, 2.15K OHM	191465-2151	
R300	0603, .1W, 1%, 100K	191465-1003	
R301	0603, .1W, 1%, 100K	191465-1003	
R302	0603, .1W, 1%, 49.9K	191465-4992	
R303	0603, .1W, 1%, 10K	191465-1002	
R304	0603, .1W, 1%, 49.9K	191465-4992	
R305	0603, .1W, 1%, 10 OHM	191465-10R0	
R306	0603, .1W, 1%, 10K	191465-1002	
R307	0603, .1W, 1%, 10K	191465-1002	
R308	0805, .125W, 1%, 100K	133625-1003	
R309	0805, .125W, 1%, 100K	133625-1003	
R310	0603, .1W, 1%, 10 OHM	191465-10R0	
R311	0603, .1W, 1%, 1K	191465-1001	
R312	0603, .1W, 1%, 10K	191465-1002	
R313	0603, .1W, 1%, 11K	191465-1102	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604

Resistors (continued)

Reference Designator	Description	Part Number	Note
R314	0603, .1W, 1%, 10 OHM	191465-10R0	
R315	0603, .1W, 1%, 1K	191465-1001	
R316	0603, .1W, 1%, 1K	191465-1001	
R317	0603, .1W, 1%, 10K	191465-1002	
R318	0603, .1W, 1%, 30.1K	191465-3012	
R319	1206, 1/4W, 1%, 1.50K	124894-1501	
R320	1206, 1/4W, 1%, 1.50K	124894-1501	
R321	0603, .1W, 1%, 10K	191465-1002	
R322	0603, .1W, 1%, 20K	191465-2002	
R323	0603, .1W, 1%, 20K	191465-2002	
R324	0603, .1W, 1%, 20K	191465-2002	
R325	0603, .1W, 1%, 4.02K	191465-4021	
R326	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R327	0603, .1W, 1%, 10K	191465-1002	
R328	0603, .1W, 1%, 33.2K	191465-3322	
R329	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R330	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R331	0603, .1W, 1%, 10 OHM	191465-10R0	
R332	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R333	0603, .1W, 1%, 20 OHM	191465-20R0	
R334	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R335	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R336	0603, .1W, 1%, 10 OHM	191465-10R0	
R337	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R338	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R339	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R340	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R341	0603, .1W, 1%, 20 OHM	191465-20R0	
R342	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R343	0603, .1W, 1%, 10 OHM	191465-10R0	
R344	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R345	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R346	0603, .1W, 1%, 10 OHM	191465-10R0	
R347	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R348	0603, .1W, 1%, 20 OHM	191465-20R0	
R349	0603, .1W, 1%, 20 OHM	191465-20R0	
R350	0603, .1W, 1%, 76.8 OHM	191465-76R8	
R351	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R352	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R353	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R354	0603, .1W, 1%, 76.8 OHM	191465-76R8	
R355	0603, .1W, 1%, 100K	191465-1003	
R356	0603, .1W, 1%, 76.8 OHM	191465-76R8	
R357	0603, .1W, 1%, 76.8 OHM	191465-76R8	
R358	0603, .1W, 1%, 100K	191465-1003	
R359	0603, .1W, 1%, 100K	191465-1003	
R360	0603, .1W, 1%, 100K	191465-1003	
R361	1206, 250mW, 1%, 5.11 OHMS	124894-5R11	
R362	1206, 250mW, 1%, 5.11 OHMS	124894-5R11	
R363	1206, 250mW, 1%, 5.11 OHMS	124894-5R11	
R364	1206, 250mW, 1%, 5.11 OHMS	124894-5R11	
R365	0603, .1W, 1%, 1K	191465-1001	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Resistors (continued)

Reference Designator	Description	Part Number	Note
R366	0603, 0.1W, 1%, 665 OHMS	191465-6650	
R367	0603, .1W, 1%, 549 OHM	191465-5490	
R368	0603, .1W, 1%, 267 OHM	191465-2670	
R369	0603, 0.1W, 1%, 340 OHMS	191465-3400	
R370	0603, 0.1W, 1%, 665 OHMS	191465-6650	
R371	0603, .1W, 1%, 7.32K	191465-7321	
R372	0603, .1W, 1%, 549 OHM	191465-5490	
R373	0603, .1W, 1%, 1K	191465-1001	
R374	0603, .1W, 1%, 7.32K	191465-7321	
R375	0603, .1W, 1%, 88.7K	191465-8872	
R376	0603, 0.1W, 1%, 953 OHMS	191465-9530	
R377	0603, 0.1W, 1%, 806 OHM	191465-8060	
R378	0603, 0.1W, 1%, 69.8K OHMS	191465-6982	
R379	0603, .1W, 1%, 19.6K	191465-1962	
R380	0805, 0.125W, 1%, 681K	133625-6813	
R381	0603, .1W, 1%, 5.9K	191465-5901	
R400	0603, .1W, 1%, 49.9K	191465-4992	
R401	0603, .1W, 1%, 100K	191465-1003	
R402	0603, .1W, 1%, 100K	191465-1003	
R403	0603, .1W, 1%, 49.9K	191465-4992	
R404	0805, .125W, 1%, 100K	133625-1003	
R405	0805, .125W, 1%, 100K	133625-1003	
R406	0603, .1W, 1%, 10K	191465-1002	
R407	0603, .1W, 1%, 10K	191465-1002	
R408	0603, .1W, 1%, 10K	191465-1002	
R409	0805, .125W, 1%, 100K	133625-1003	
R410	0805, .125W, 1%, 100K	133625-1003	
R411	0805, .125W, 1%, 100K	133625-1003	
R412	0805, .125W, 1%, 100K	133625-1003	
R413	0603, .1W, 1%, 1K	191465-1001	
R414	0603, .1W, 1%, 10K	191465-1002	
R415	0603, .1W, 1%, 11K	191465-1102	
R416	0603, .1W, 1%, 10K	191465-1002	
R417	0603, .1W, 1%, 1K	191465-1001	
R418	0603, .1W, 1%, 1K	191465-1001	
R419	0603, .1W, 1%, 30.1K	191465-3012	
R420	0603, .1W, 1%, 20K	191465-2002	
R421	0603, .1W, 1%, 20K	191465-2002	
R422	1206, 1/4W, 1%, 1.50K	124894-1501	
R423	1206, 1/4W, 1%, 1.50K	124894-1501	
R424	0603, .1W, 1%, 10K	191465-1002	
R425	0603, .1W, 1%, 4.02K	191465-4021	
R426	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R427	0603, .1W, 1%, 10K	191465-1002	
R428	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R429	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R430	0603, .1W, 1%, 10 OHM	191465-10R0	
R431	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R432	0603, .1W, 1%, 20 OHM	191465-20R0	
R433	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R434	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R435	0603, .1W, 1%, 10 OHM	191465-10R0	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Resistors (continued)

Reference Designator	Description	Part Number	Note
R436	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R437	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R438	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R439	0603, 0.1W, 1%, 40.2 OHM	191465-40R2	
R440	0603, .1W, 1%, 20 OHM	191465-20R0	
R441	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R442	0603, .1W, 1%, 10 OHM	191465-10R0	
R443	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R444	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R445	0603, .1W, 1%, 10 OHM	191465-10R0	
R446	0603, 0.1W, 1%, 4.99 OHMS	191465-4R99	
R447	0603, .1W, 1%, 20 OHM	191465-20R0	
R448	0603, .1W, 1%, 20 OHM	191465-20R0	
R449	0603, .1W, 1%, 76.8 OHM	191465-76R8	
R450	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R451	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R452	0603, .1W, 1%, 24.9 OHM	191465-24R9	
R453	0603, .1W, 1%, 76.8 OHM	191465-76R8	
R454	0603, .1W, 1%, 100K	191465-1003	
R455	0603, .1W, 1%, 76.8 OHM	191465-76R8	
R456	0603, .1W, 1%, 76.8 OHM	191465-76R8	
R457	0603, .1W, 1%, 100K	191465-1003	
R458	0603, .1W, 1%, 100K	191465-1003	
R459	0603, .1W, 1%, 100K	191465-1003	
R460	1206, 250mW, 1%, 5.11 OHMS	124894-5R11	
R461	1206, 250mW, 1%, 5.11 OHMS	124894-5R11	
R462	1206, 250mW, 1%, 5.11 OHMS	124894-5R11	
R463	1206, 250mW, 1%, 5.11 OHMS	124894-5R11	
R464	0603, .1W, 1%, 1K	191465-1001	
R465	0603, 0.1W, 1%, 665 OHMS	191465-6650	
R466	0603, .1W, 1%, 549 OHM	191465-5490	
R467	0603, .1W, 1%, 267 OHM	191465-2670	
R468	0603, 0.1W, 1%, 340 OHMS	191465-3400	
R469	0603, 0.1W, 1%, 665 OHMS	191465-6650	
R470	0603, .1W, 1%, 7.32K	191465-7321	
R471	0603, .1W, 1%, 549 OHM	191465-5490	
R472	0603, .1W, 1%, 1K	191465-1001	
R473	0603, .1W, 1%, 7.32K	191465-7321	
R474	0603, .1W, 1%, 88.7K	191465-8872	
R475	0603, 0.1W, 1%, 953 OHMS	191465-9530	
R476	0603, 0.1W, 1%, 806 OHM	191465-8060	
R477	0603, 0.1W, 1%, 69.8K OHMS	191465-6982	
R478	0603, .1W, 1%, 19.6K	191465-1962	
R479	0805, 0.125W, 1%, 681K	133625-6813	
R480	0603, .1W, 1%, 5.9K	191465-5901	
R2100	0603, .1W, 1%, 4.99K	191465-4991	
R2101	0603, .1W, 1%, 2.15K OHM	191465-2151	
R2102	0603, .1W, 1%, 2.15K OHM	191465-2151	
R2104	0603, .1W, 1%, 4.99K	191465-4991	
R2105	0603, .1W, 1%, 2.49K	191465-2491	
R2106	0603, .1W, 1%, 2.49K	191465-2491	
R2107	0603, .1W, 1%, 4.99K	191465-4991	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604

Resistors (continued)

Reference Designator	Description	Part Number	Note
R2108	0603, .1W, 1%, 200K	191465-2003	
R2109	0603, .1W, 1%, 200K	191465-2003	
R2111	0603, .1W, 1%, 82.5K	191465-8252	
R2112	0603, .1W, 1%, 82.5K	191465-8252	
R2113	0603, .1W, 1%, 4.99K	191465-4991	
R2114	0603, .1W, 1%, 200K	191465-2003	
R2115	0603, .1W, 1%, 200K	191465-2003	
R2116	0603, .1W, 1%, 332 OHM	191465-3320	
R2117	0603, .1W, 1%, 332 OHM	191465-3320	
R2118	0603, .1W, 1%, 3.01K	191465-3011	
R2119	0603, .1W, 1%, 3.01K	191465-3011	
R2120	0603, .1W, 1%, 332 OHM	191465-3320	
R2121	0603, .1W, 1%, 332 OHM	191465-3320	
R2122	0603, .1W, 1%, 332 OHM	191465-3320	
R2123	0603, .1W, 1%, 332 OHM	191465-3320	
R2124	0603, .1W, 1%, 100 OHM	191465-1000	
R2125	0603, .1W, 1%, 100 OHM	191465-1000	
R2126	0603, 100MW, 1%, 1.33K	191465-1331	
R2127	0603, 100MW, 1%, 1.33K	191465-1331	
R2128	0603, .1W, 1%, 3.32K	191465-3321	
R2129	0603, .1W, 1%, 1K	191465-1001	
R2130	0603, .1W, 1%, 681 OHM	191465-6810	
R2131	0603, .1W, 1%, 20K	191465-2002	
R2132	0603, .1W, 1%, 681 OHM	191465-6810	
R2133	0603, 100MW, 1%, 1.33K	191465-1331	
R2134	0603, 100MW, 1%, 1.33K	191465-1331	
R2135	0603, .1W, 1%, 49.9K	191465-4992	

Capacitors

Reference Designator	Description	Part Number	Note
C100	1206, X7R, 25V, 10%, 4.7uF	262063-475	
C101	1206, X7R, 25V, 10%, 4.7uF	262063-475	
C102	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C103	0805, X7R, 50V, 0.1uF	133623-104	
C104	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C105	0805, X7R, 50V, 0.1uF	133623-104	
C106	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C107	0805, X7R, 50V, 0.1uF	133623-104	
C108	C0G, 0603, 50V, 5%, 470pF	188454-471	
C109	0805, X7R, 50V, 0.1uF	133623-104	
C110	X7R, 1210, 25V, 10%, 22uF, COMM	759068-226K1E	
C111	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C112	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C113	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C114	X7R, 0805, 6.3V, 10%, 10uF	359399-106K	
C115	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C116	0805, X7R, 50V, 0.1uF	133623-104	
C117	C0G, 0603, 50V, 5%, 470pF	188454-471	
C118	X7R, 0805, 6.3V, 10%, 10uF	359399-106K	
C119	0805, X7R, 50V, 0.1uF	133623-104	
C120	X7R, 0603, 10%, 0.1uF, 50V	191470-104	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Capacitors (continued)

Reference Designator	Description	Part Number	Note
C121	0805, X7R, 50V, 0.1uF	133623-104	
C122	1206, X7R, 25V, 10%, 4.7uF	262063-475	
C123	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C125	1206, X7R, 25V, 10%, 4.7uF	262063-475	
C126	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C127	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C128	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C129	0805, X7R, 10%, 25V, 1UF	181264-105	
C130	1206, X7R, 25V, 10%, 4.7uF	262063-475	
C131	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C132	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C133	0805, X7R, 10%, 25V, 1uF	181264-105	
C134	C0G, 0603, 50V, 5%, 330pF	188454-331	
C135	EL, 105C, 25V, 20%, 1000uF, 10mm DIA, CUT	196991-102E6P50	
C136	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C137	1206, X7R, 25V, 10%, 4.7uF	262063-475	
C138	0805, X7R, 50V, 0.1uF	133623-104	
C139	C0G, 0603, 50V, 5%, 330pF	188454-331	
C141	0805, X7R, 50V, 0.1uF	133623-104	
C142	1206, X7R, 25V, 10%, 4.7uF	262063-475	
C200	0603, X7R, 5%, 25V, 6800PF	196999-682	
C201	0603, X7R, 5%, 25V, 6800PF	196999-682	
C202	0603, X7R, 5%, 25V, 6800PF	196999-682	
C203	0603, X7R, 5%, 25V, 6800PF	196999-682	
C204	0805, X7R, 50V, 0.1uF	133623-104	
C205	0805, X7R, 50V, 0.1uF	133623-104	
C206	C0G, 0603, 50V, 5%, 2700pF	188454-272	
C207	C0G, 0603, 50V, 5%, 2700pF	188454-272	
C208	C0G, 0603, 50V, 5%, 2700pF	188454-272	
C209	C0G, 0603, 50V, 5%, 2700pF	188454-272	
C212	0805, X7R, 50V, 0.1uF	133623-104	
C213	0805, X7R, 50V, 0.1uF	133623-104	
C214	C0G, 0603, 50V, 5%, 270pF	188454-271	
C215	C0G, 0603, 50V, 5%, 270pF	188454-271	
C216	C0G, 0603, 50V, 5%, 270pF	188454-271	
C217	C0G, 0603, 50V, 5%, 270pF	188454-271	
C218	X7R, SMD, 5%, 25V, 0603, 68NF	196999-683	
C219	X7R, SMD, 5%, 25V, 0603, 68NF	196999-683	
C220	X7R, 1210, 25V, 10%, 22uF, COMM	759068-226K1E	
C221	X7R, 1210, 25V, 10%, 22uF, COMM	759068-226K1E	
C222	C0G, 0603, 50V, 5%, 510pF	188454-511	
C223	C0G, 0603, 50V, 5%, 510pF	188454-511	
C224	C0G, 0603, 50V, 5%, 390pF	188454-391	
C225	C0G, 0603, 50V, 5%, 390pF	188454-391	
C226	0805, X7R, 50V, 0.1uF	133623-104	
C227	0805, X7R, 50V, 0.1uF	133623-104	
C228	C0G, 0603, 50V, 5%, 560pF	188454-561	
C229	C0G, 0603, 50V, 5%, 1000pF	188454-102	
C230	C0G, 0603, 50V, 5%, 560pF	188454-561	
C231	C0G, 0603, 50V, 5%, 560pF	188454-561	
C232	C0G, 0603, 50V, 5%, 1000pF	188454-102	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Capacitors (continued)

Reference Designator	Description	Part Number	Note
C233	C0G, 0603, 50V, 5%, 560pF	188454-561	
C234	C0G, 0603, 50V, 5%, 180pF	188454-181	
C235	C0G, 0603, 50V, 5%, 180pF	188454-181	
C236	C0G, 0603, 50V, 5%, 180pF	188454-181	
C237	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C238	C0G, 0603, 50V, 5%, 270pF	188454-271	
C239	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C240	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C241	C0G, 0603, 50V, 5%, 220pF	188454-221	
C242	C0G, 0603, 50V, 5%, 270pF	188454-271	
C243	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C244	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C245	C0G, 0603, 50V, 5%, 180pF	188454-181	
C246	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C247	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C248	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C249	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C250	C0G, 0603, 50V, 5%, 220pF	188454-221	
C251	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C252	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C253	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C254	C0G, 0603, 50V, 5%, 470pF	188454-471	
C255	C0G, 0603, 50V, 5%, 470pF	188454-471	
C256	C0G, 0603, 50V, 5%, 220pF	188454-221	
C257	C0G, 0603, 50V, 5%, 220pF	188454-221	
C258	C0G, 0603, 50V, 5%, 10pF	188454-100	
C259	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C260	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C261	C0G, 0603, 50V, 5%, 10pF	188454-100	
C262	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C263	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C264	0805, X7R, 10%, 25V, 1uF	181264-105	
C265	0603, C0G, SMD, 25V, 5%, 10nF	268368-103	
C266	0603, C0G, SMD, 25V, 5%, 10nF	268368-103	
C267	0805, X7R, 50V, 0.1uF	133623-104	
C268	0805, X7R, 10%, 25V, 1uF	181264-105	
C269	C0G, 0603, 50V, 5%, 82pF	188454-820	
C270	0603, X7R, 50V, .01uF	191470-103	
C271	C0G, 0603, 50V, 5%, 82pF	188454-820	
C272	C0G, 0603, 50V, 5%, 10pF	188454-100	
C273	C0G, 0603, 50V, 5%, 10pF	188454-100	
C274	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C275	C0G, 0603, 50V, 5%, 1800pF	188454-182	
C300	0603, X7R, 50V, 10%, .033uF	191470-333	
C301	0603, X7R, 50V, 10%, .033uF	191470-333	
C302	0805, X7R, 50V, 0.1uF	133623-104	
C303	0603, X7R, 50V, 10%, .033uF	191470-333	
C304	0603, X7R, 50V, 10%, .033uF	191470-333	
C305	C0G, 0603, 50V, 5%, 220pF	188454-221	
C306	X7R, 0603, 16V, 5%, 4.7nF	257154-472J16	
C307	C0G, 0603, 50V, 5%, 220pF	188454-221	
C308	0603, X7R, 5%, 25V, 2.2nF	196999-222	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Capacitors (continued)

Reference Designator	Description	Part Number	Note
C309	0805, X7R, 50V, 0.1uF	133623-104	
C310	0805, X7R, 10%, 25V, 1uF	181264-105	
C311	C0G, 0603, 50V, 5%, 470pF	188454-471	
C312	C0G, 0603, 50V, 5%, 47pF	188454-470	
C313	0805, X7R, 10%, 25V, 1uF	181264-105	
C314	0805, X7R, 10%, 25V, 1uF	181264-105	
C315	0603, X7R, 5%, 25V, 4.7 nF	196999-472	
C316	1411, TANT, 20V, 20%, 4.7uF	188588-475	
C317	C0G, 0603, 50V, 5%, 4700pF	188454-472	
C318	0603, C0G, SMD, 25V, 5%, 10nF	268368-103	
C319	0805, X7R, 10%, 25V, 1uF	181264-105	
C320	C0G, 0603, 50V, 5%, 470pF	188454-471	
C321	0805, X7R, 10%, 25V, 1uF	181264-105	
C322	0805, X7R, 10%, 25V, 1uF	181264-105	
C323	0805, X7R, 10%, 25V, 1uF	181264-105	
C324	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C325	X7R, 0603, 25V, 5%, 220pF	196999-221	
C326	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C327	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C328	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C329	X7R, 0603, 16V, 5%, 47nF	257154-473J16	
C330	0805, X7R, 10%, 25V, 1uF	181264-105	
C331	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C332	X7R, 0603, 16V, 5%, 47nF	257154-473J16	
C333	X7R, 0603, 16V, 5%, 47nF	257154-473J16	
C334	0805, X7R, 10%, 25V, 1uF	181264-105	
C335	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C336	X7R, 0603, 16V, 5%, 47nF	257154-473J16	
C337	0805, X7R, 10%, 25V, 1uF	181264-105	
C338	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C339	0805, X7R, 10%, 25V, 1uF	181264-105	
C340	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C341	0603, X7R, 50V, 330pF	191470-331	
C342	0603, X7R, 50V, 330pF	191470-331	
C343	0603, X7R, 50V, 330pF	191470-331	
C344	0603, X7R, 50V, 330pF	191470-331	
C345	0805, C0G, 200V, 10%, 220pF	260668-221K	
C346	0805, C0G, 200V, 10%, 220pF	260668-221K	
C347	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C348	0805, C0G, 200V, 10%, 220pF	260668-221K	
C349	X7R, 1210, 25V, 10%, 22uF, COMM	759068-226K1E	
C350	0805, C0G, 200V, 10%, 220pF	260668-221K	
C351	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C352	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C353	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C354	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C355	C0G, 0603, 50V, 5%, 430pF	188454-431	
C356	C0G, 0603, 50V, 5%, 430pF	188454-431	
C357	C0G, 0603, 5%, 25V, 8.2nF	268368-822	
C358	C0G, 0603, 50V, 5%, 430pF	188454-431	
C359	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C360	C0G, 1206, 100V, 5%, 0.047uF	354973-473J	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Capacitors (continued)

Reference Designator	Description	Part Number	Note
C361	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C362	C0G, 0603, 50V, 5%, 1000pF	188454-102	
C363	C0G, 0603, 50V, 5%, 200pF	188454-201	
C364	C0G, 0603, 50V, 5%, 470pF	188454-471	
C365	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C366	C0G, 0603, 50V, 5%, 1200pF	188454-122	
C367	X7R, 0603, 200V, 10%, 1000pF, COMM	718875-102K2D	
C368	X7R, 0603, 100V, 10%, 1000pF, COMM	718875-102K2A	
C369	0805, X7R, 50V, 0.1uF	133623-104	
C370	0805, X7R, 50V, 0.1uF	133623-104	
C371	FILM, 15mm LS, BULK, 10%, 250Vdc, 0.47uF	354214-474IKB	
C373	X7R, 0603, 100V, 10%, 1000pF, COMM	718875-102K2A	
C374	C0G, 1206, 100V, 5%, 0.047uF	354973-473J	
C375	X7R, 0603, 100V, 10%, 1000pF, COMM	718875-102K2A	
C377	X7R, 0603, 100V, 10%, 1000pF, COMM	718875-102K2A	
C378	C0G, 0603, 50V, 5%, 430pF	188454-431	
C400	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C401	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C402	C0G, 0603, 50V, 5%, 220pF	188454-221	
C403	C0G, 0603, 50V, 5%, 220pF	188454-221	
C404	X7R, 0603, 16V, 5%, 4.7nF	257154-472J16	
C405	C0G, 0603, 50V, 5%, 470pF	188454-471	
C406	C0G, 0603, 50V, 5%, 47pF	188454-470	
C407	EL, SNAP-IN, DISK, 105C, 200V, 20%, 1500uF	629718-152DDBW	
C408	EL, SNAP-IN, DISK, 105C, 200V, 20%, 1500uF	629718-152DDBW	
C409	0603, X7R, 5%, 25V, 4.7nF	196999-472	
C410	C0G, 0603, 50V, 5%, 4700pF	188454-472	
C411	EL, SNAP-IN, DISK, 105C, 200V, 20%, 1500uF	629718-152DDBW	
C412	C0G, 0603, 50V, 5%, 470pF	188454-471	
C413	0603, C0G, SMD, 25V, 5%, 10nF	268368-103	
C414	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C415	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C416	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C417	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C418	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C419	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C420	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C421	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C422	X7R, 0603, 16V, 5%, 47nF	257154-473J16	
C423	0805, X7R, 10%, 25V, 1uF	181264-105	
C424	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C425	X7R, 0603, 16V, 5%, 47nF	257154-473J16	
C426	X7R, 0603, 16V, 5%, 47nF	257154-473J16	
C427	0805, X7R, 10%, 25V, 1uF	181264-105	
C428	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C429	X7R, 0603, 16V, 5%, 47nF	257154-473J16	
C430	0805, X7R, 10%, 25V, 1uF	181264-105	
C431	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C432	0805, X7R, 10%, 25V, 1uF	181264-105	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Capacitors (continued)

Reference Designator	Description	Part Number	Note
C433	X7R, 0603, 16V, 10%, 1uF	257154-105K16	
C434	0603, X7R, 50V, 330pF	191470-331	
C435	0603, X7R, 50V, 330pF	191470-331	
C436	0603, X7R, 50V, 330pF	191470-331	
C437	0603, X7R, 50V, 330pF	191470-331	
C438	0805, C0G, 200V, 10%, 220pF	260668-221K	
C439	0805, C0G, 200V, 10%, 220pF	260668-221K	
C440	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C441	0805, C0G, 200V, 10%, 220pF	260668-221K	
C442	X7R, 1210, 25V, 10%, 22uF, COMM	759068-226K1E	
C443	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C444	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C445	0805, C0G, 200V, 10%, 220pF	260668-221K	
C446	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C447	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C448	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C449	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C450	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C451	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C452	C0G, 0603, 50V, 5%, 430pF	188454-431	
C453	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C454	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C455	C0G, 0603, 50V, 5%, 430pF	188454-431	
C456	C0G, 0603, 5%, 25V, 8.2nF	268368-822	
C457	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C458	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C459	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C460	C0G, 0603, 50V, 5%, 430pF	188454-431	
C461	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C462	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C463	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C464	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C465	C0G, 1206, 100V, 5%, 0.047uF	354973-473J	
C466	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C467	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C468	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C469	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C470	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C471	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C472	C0G, 0603, 50V, 5%, 1000pF	188454-102	
C473	C0G, 0603, 50V, 5%, 470pF	188454-471	
C474	C0G, 0603, 50V, 5%, 200pF	188454-201	
C475	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C476	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C477	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C478	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C479	X7R, 0603, 10%, 0.1uF, 50V	191470-104	
C480	C0G, 0603, 50V, 5%, 1200pF	188454-122	
C481	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C482	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C483	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C484	X7R, 1210, 200V, 10%, 220nF	327916-224K	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604

Capacitors (continued)

Reference Designator	Description	Part Number	Note
C485	X7R, 0603, 200V, 10%, 1000pF, COMM	718875-102K2D	
C486	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C487	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C488	FILM, 15mm LS, BULK, 10%, 250Vdc, 0.47uF	354214-474IKB	
C489	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C490	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C491	C0G, 1206, 100V, 5%, 0.047uF	354973-473J	
C492	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C493	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C494	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C495	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C496	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C497	X7R, 1210, 200V, 10%, 220nF	327916-224K	
C498	C0G, 0603, 50V, 5%, 430pF	188454-431	

Inductors and Ferrite Beads

Reference Designator	Description	Part Number	Note
L300	CORE, FERRITE, EQ20, LOW PROFILE	326426-0010	
L301	INDUCTOR, BALANCED OUT, PQ26/25	753038-0010	
L400	CORE, FERRITE, EQ20, LOW PROFILE	326426-0010	
L401	INDUCTOR, BALANCED OUT, PQ26/25	753038-0010	
T300	CORE, FERRITE, EQ20	326424-0010	
T400	CORE, FERRITE, EQ20	326424-0010	

Diodes

Reference Designator	Description	Part Number	Note
D100	SCHTKY, SC70, 30V, SINGLE	268381-001	
D101	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D102	SWITCHING, SOD123, 1N4148W	257662	
D103	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D104	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D105	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D106	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D107	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D108	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D201	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D202	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D206	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D207	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D208	SCHTKY, SC70, 30V, SINGLE	268381-001	
D209	SCHTKY, SC70, 30V, SINGLE	268381-001	
D300	SCHTKY, SC70, 30V, SINGLE	268381-001	
D301	SCHTKY, SC70, 30V, SINGLE	268381-001	
D302	SCHTKY, SC70, 30V, SINGLE	268381-001	
D303	SCHTKY, SC70, 30V, SINGLE	268381-001	
D304	SCHTKY, SC70, 30V, SINGLE	268381-001	
D305	SCHTKY, SC70, 30V, SINGLE	268381-001	
D306	SCHTKY, SC70, 30V, SINGLE	268381-001	
D307	SCHTKY, SC70, 30V, SINGLE	268381-001	
D308	SCHOTTKY, 1A, 30V, SOD123	317122-001	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604
Diodes (continued)

Reference Designator	Description	Part Number	Note
D309	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D310	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D311	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D312	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D313	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D314	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D315	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D316	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D317	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D318	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D319	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D320	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D321	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D322	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D323	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D324	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D325	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D326	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D327	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D328	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
D400	SCHTKY, SC70, 30V, SINGLE	268381-001	
D401	SCHTKY, SC70, 30V, SINGLE	268381-001	
D402	SCHTKY, SC70, 30V, SINGLE	268381-001	
D403	SCHTKY, SC70, 30V, SINGLE	268381-001	
D404	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D405	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D406	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D407	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D408	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D409	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D410	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D411	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D412	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D413	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D414	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D415	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D416	SCHOTTKY, 1A, 30V, SOD123	317122-001	
D417	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D418	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D419	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D420	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D421	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D422	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D423	SCHOTTKY, 1A, 40V, SOD-123	329019-0010	
D424	SW, 75V, 0.3A, SOT-323, BAV99W	298763-075	
ZR100	ZENER, 10.V, 225MW, 5%, SOT-23	135247-5240	
ZR101	ZENER, 10.V, 225MW, 5%, SOT-23	135247-5240	
ZR200	ZENER, 5.6V, 250mW, 1%, SOT-23	135247-1232	
ZR201	ZENER, 5.6V, 250mW, 1%, SOT-23	135247-1232	
ZR202	ZENER, 5.6V, 250mW, 1%, SOT-23	135247-1232	
ZR203	ZENER, 5.6V, 250mW, 1%, SOT-23	135247-1232	
ZR204	ZENER, 7.5V, 250mW, 1%, SOT-23	135247-1236	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604

Diodes (continued)

Reference Designator	Description	Part Number	Note
ZR205	ZENER, 7.5V, 250mW, 1%, SOT-23	135247-1236	
ZR206	ZENER, 7.5V, 250mW, 1%, SOT-23	135247-1236	
ZR207	ZENER, 7.5V, 250mW, 1%, SOT-23	135247-1236	
ZR300	ZENER, 10.V, 225MW, 5%, SOT-23	135247-5240	
ZR400	ZENER, 10.V, 225MW, 5%, SOT-23	135247-5240	

Transistors

Reference Designator	Description	Part Number	Note
Q100	BPLR, N, 40V, 200mA, SOT23	146819	
Q101	BPLR, P, 40V, 200mA, SOT23	148596	
Q102	BPLR, N, 40V, 200mA, SOT23	146819	
Q103	BPLR, N, 40V, 200mA, SOT23	146819	
Q104	BPLR, N, 40V, 200mA, SOT23	146819	
Q105	BPLR, N, 40V, 200mA, SOT23	146819	
Q106	BPLR, P, 40V, 200mA, SOT23	148596	
Q204	BPLR, N, 40V, 200mA, SOT23	146819	
Q205	BPLR, N, 40V, 200mA, SOT23	146819	
Q300	BPLR, N, 40V, 200mA, SOT23	146819	
Q301	BPLR, N, 40V, 200mA, SOT23	146819	
Q302	BPLR, N, 40V, 200mA, SOT23	146819	
Q303	BPLR, N, 40V, 200mA, SOT23	146819	
Q304	BPLR, P, 40V, 200mA, SOT23	148596	
Q305	BPLR, N, 40V, 200mA, SOT23	146819	
Q306	BPLR, P, 40V, 200mA, SOT23	148596	
Q307	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q308	NPN, LO SAT, 30V, 6A, SOT89	326375-0010	
Q309	MFET, N-CH, 3.5A, 30V, SOT-23	362339-0010	
Q310	MFET, N-CH, 60mA, 200V, SOT-23	354011-0010	
Q311	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q312	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q313	NPN, LO SAT, 30V, 6A, SOT89	326375-0010	
Q314	MFET, N-CH, 3.5A, 30V, SOT-23	362339-0010	
Q315	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q316	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q317	NPN, LO SAT, 30V, 6A, SOT89	326375-0010	
Q318	MFET, N-CH, 3.5A, 30V, SOT-23	362339-0010	
Q319	NPN, LO SAT, 30V, 6A, SOT89	326375-0010	
Q320	MFET, N-CH, 3.5A, 30V, SOT-23	362339-0010	
Q321	MFET, N-CH, 60mA, 200V, SOT-23	354011-0010	
Q322	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q323	MFET, N-CH, 60mA, 200V, SOT-23	354011-0010	
Q324	MFET, N-CH, 60mA, 200V, SOT-23	354011-0010	
Q325	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q326	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q327	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q328	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q329	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q330	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q331	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q332	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q333	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604

Transistors (continued)

Reference Designator	Description	Part Number	Note
Q334	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q400	BPLR, N, 40V, 200mA, SOT23	146819	
Q401	BPLR, N, 40V, 200mA, SOT23	146819	
Q402	BPLR, N, 40V, 200mA, SOT23	146819	
Q403	BPLR, N, 40V, 200mA, SOT23	146819	
Q404	BPLR, P, 40V, 200mA, SOT23	148596	
Q405	BPLR, N, 40V, 200mA, SOT23	146819	
Q406	BPLR, P, 40V, 200mA, SOT23	148596	
Q407	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q408	MFET, N-CH, 3.5A, 30V, SOT-23	362339-0010	
Q409	NPN, LO SAT, 30V, 6A, SOT89	326375-0010	
Q410	MFET, N-CH, 60mA, 200V, SOT-23	354011-0010	
Q411	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q412	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q413	NPN, LO SAT, 30V, 6A, SOT89	326375-0010	
Q414	MFET, N-CH, 3.5A, 30V, SOT-23	362339-0010	
Q415	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q416	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q417	NPN, LO SAT, 30V, 6A, SOT89	326375-0010	
Q418	MFET, N-CH, 3.5A, 30V, SOT-23	362339-0010	
Q419	MFET, N-CH, 3.5A, 30V, SOT-23	362339-0010	
Q420	NPN, LO SAT, 30V, 6A, SOT89	326375-0010	
Q421	MFET, N-CH, 60mA, 200V, SOT-23	354011-0010	
Q422	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q423	MFET, N-CH, 60mA, 200V, SOT-23	354011-0010	
Q424	MFET, N-CH, 60mA, 200V, SOT-23	354011-0010	
Q425	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q426	PNP, LO SAT, 30V, 5.5A, SOT89	326379-0010	
Q427	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q428	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q429	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q430	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q431	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q432	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q433	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	
Q434	DIRECTFET, N-CH, 200V, 19A, MZ	326382-0010	

Integrated Circuits

Reference Designator	Description	Part Number	Note
U100	LOGBUS XCVR, 1B, 3S, 74LVC1T45, SOT	759041-0010	
U101	OP AMP, DUAL, JFET, TLE2072A, SO8	326336-0231	
U102	SCHMIT TRIG, IN, 74HC14, SO14	260624	
U103	COUNTER, SYNCHRONOUS BINARY, 4-BIT	727921-0010	
U104	OP AMP, QUAD, SO-14, TL074BCDT	188953-001	
U200	OP AMP, QUAD, FET INPUT, 4134, 14SOIC	330248-0010	
U201	SWITCH, ANALOG, TRIPLE, ADG1433, 16TSSOP	326367-0010	
U203	OP AMP, QUAD, FET INPUT, 120uV, 4140, 14SO	757494-0404	
U204	COMPARATOR, DUAL, LM2903, 8SOIC	322174-0010	
U205	COMPARATOR, 5.5V, 4.5nS, TLV3502, SOT23-8	353940-0010	
U206	COMPARATOR, 5.5V, 4.5nS, TLV3502, SOT23-8	353940-0010	
U300	HALL-EFFECT CURRENT SENSOR, ACS711, 8SO	330390-0010	

ELECTRICAL PART LIST

Amplifier PCB Assembly, PS602/PS602P/PS604

Integrated Circuits (continued)

Reference Designator	Description	Part Number	Note
U301	OP AMP, QUAD, JFET, TLE2074, SO16W, 3mV	326336-0040	
U302	SWITCH, ANALOG, SPST, ADG452, 16TSSOP	328693-0010	
U303	POWER STAGE AMPLIFER, 2X15W, 32HTSSOP	353939-0010	
U304	COMPARATOR, QUAD, LM2901, 14SOIC	310919-001	
U400	HALL-EFFECT CURRENT SENSOR, ACS711, 8SO	330390-0010	
VR100	3 TERM ADJ REG, LM317MQDCYR	271642-001	
VR101	3 TERM ADJ REG, LM317MQDCYR	271642-001	
VR102	VOLT REG, POS, LDO, 3A, ADJ, LD1085, DPAK	362098-0010	
VR103	VOLTAGE REG, NEGATIVE, LM337, SOT-223	328992-0010	

Miscellaneous

Reference Designator	Description	Part Number	Note
HS100	HEAT SINK, DPAK	320438-002	
HS300	HEAT SINK, D2PAK	320438-001	
J100	CONN, FFC, 0.5mm, T ENTRY, 20POS, WHT	269863-020	
J101	CONN, FFC, 0.5mm, T ENTRY, 10POS, WHT	269863-010	
J300	CONN, HEADER, INLINE, PCB MNT, 4P	133220-04	
J400	CONN, HEADER, INLINE, 3P, BLACK	133220-103	
Y100	OSCILLATOR, 5.6MHz, 25PPM, 3.3V, 3225	757550-5M60000	
-	HEATSINK, TOP, AMP	732979-0010	
-	THERMAL PAD, AMP	720281-0010	Qty. 2
-	SCREW, M3 X 8MM, SKT HD CAP	473028-0010	Qty. 3
-	HEATSINK, BOTTOM, AMP	623674-0010	

ELECTRICAL PART LIST

SMPS PCB Assembly, PS602/PS602P/PS604

Resistors

Reference Designator	Description	Vendor Part Number	Note
R200	RMG, 1/16W, 0R, 1%, 0603	4723-000A	
R202	RMG, 1/10W, 3.3K, 1%, 0805	4720-332A	
R203	RMG, 1/16W, 3K, 1%, 0603	4723-302A	
R204	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R205	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R206	RMG, 1/10W, 82 OHMS, 5%, 0805	4720-820J	
R207	RMG, 1/8W, 330K, 1%, 1206	4721-334A	
R208	RMG, 1/8W, 330K, 1%, 1206	4721-334A	
R209	RMG, 1/8W, 330K, 1%, 1206	4721-334A	
R210	RMG, 1/8W, 330K, 1%, 1206	4721-334A	
R211	RMG, 1/8W, 330K, 1%, 1206	4721-334A	
R212	RMG, 1/8W, 330K, 1%, 1206	4721-334A	
R213	RMG, 1/10W, 91K, 1%, 0603	4720-913A	
R214	RMG, 1/10W, 75 OHMS, 5%, 0805	4720-750J	
R215	RMG, 1/4W, 200K, 1%, 1206	4725-204A	
R216	RMG, 1/8W, 0 OHMS, 1%, 1206	4721-000A	
R217	RMG, 1/16W, 30K, 1%, 0603/1608	4723-303A	
R218	RMG, 1/8W, 1.5K, 5%, 1206	4721-152J	
R220	RMG, 1/8W, 1.5K, 5%, 1206	4721-152J	
R221	RMG, 1/8W, 1.5K, 5%, 1206	4721-152J	
R222	RMG, 1/10W, 249 OHM, 1%, 0805	4720-249A	
R223	RMG, 1/16W, 51K, 1%, 0603/1608	4723-513A	
R224	RMG, 1/16W, 56K, 1%, 0603	4723-563AR	
R225	RMG, 1/16W, 560K, 1%, 0603/1608	4723-564A	
R226	RMG, 1/16W, 13K, 1%, 0603	4723-133AR	
R227	RMG, 1/16W, 0 OHMS, 1%, 0603	4723-000A	
R228	RMG, 1/10W, 15 OHMS, 1%, 0805	4720-150A	
R229	RMG, 1/10W, 15 OHMS, 1%, 0805	4720-150A	
R230	RMG, 1/10W, 4.99K, 1%, 0805	4720-4991	
R232	RMG, 1/10W, 18K, 5%, 0805	4720-183J	
R233	RMG, 1/4W, 100 OHMS, 1%, 1206	4725-101A	
R234	RMG, 1/4W, 100 OHMS, 1%, 1206	4725-101A	
R235	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R236	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R237	RMG, 1/10W, 750 OHMS, 1%, 0805	4720-751A	
R238	RMG, 1/16W, 240 OHMS, 1%, 0603/1608	4723-241A	
R239	RMG, 1/16W, 240 OHMS, 1%, 0603/1608	4723-241A	
R240	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R241	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R242	RMG, 1/8W, 2.2 OHMS, 5%, 1206	4721-2R2J	
R243	RMG, 1/8W, 330K, 5%, 1206	4721-334J	
R244	RMG, 1/8W, 330K, 5%, 1206	4721-334J	
R245	RMG, 1/8W, 330K, 5%, 1206	4721-334J	
R246	RMG, 1/16W, 0 OHMS, 1%, 0603	4723-000A	
R248	RMG, 1/8W, 47 OHMS, 5%, 1206	4721-470J	
R249	RMG, 1/8W, 47 OHMS, 5%, 1206	4721-470J	
R251	RMG, 1/8W, 47 OHMS, 5%, 1206	4721-470J	
R252	RMG, 1/8W, 47 OHMS, 5%, 1206	4721-470J	
R253	RMG, 1W, 10K, 5%, 2512	4728-103J	
R254	RMG, 1/4W, 5.1K, 5%, 1206	4725-512J	
R257	RMG, 1/4W, 5.1K, 5%, 1206	4725-512J	
R258	RMG, 1/10W, 750 OHMS, 1%, 0805	4720-751A	

ELECTRICAL PART LIST

SMPS PCB Assembly, PS602/PS602P/PS604

Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R259	RMG, 1/10W, 750 OHMS, 1%, 0805	4720-751A	
R260	RMG, 1/10W, 750 OHMS, 1%, 0805	4720-751A	
R261	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R262	RMG, 1/16W, 10 OHMS, 1%, 0603	4723-100AR	
R263	RMG, 1/16W, 10 OHMS, 1%, 0603	4723-100AR	
R264	RMG, 1/16W, 10 OHMS, 1%, 0603	4723-100AR	
R265	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R266	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R267	RMG, 1W, 10K, 5%, 2512	4728-103J	
R268	RMG, 1/10W, 100 OHMS, 1%, 0805	4720-101A	
R270	RMG, 1/16W, 100 OHMS, 1%, 0603	4723-101A	
R271	RMG, 1/16W, 100 OHMS, 1%, 0603	4723-101A	
R272	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R273	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R274	RMG, 1/4W, 200K, 1%, 1206	4725-204A	
R275	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R276	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R277	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R278	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R282	RCF, 1/4W, 100K, 5%, AT	4705-104J	
R283	RCF, 1/4W, 100K, 5%, AT	4705-104J	
R284	RMG, 1/10W, 10K, 1%, 0805	4720-103A	
R285	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R286	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R287	RMG, 1W, 0.33 OHMS, 1%, 2512	4728-R33A	
R288	RMG, 1/16W, 16K, 1%, 0603/1608	4723-163A	
R289	RMG, 1/16W, 16K, 1%, 0603/1608	4723-163A	
R290	RMG, 1/16W, 470K, 1%, 0603	4723-474A	
R291	RMG, 1/16W, 2K, 1%, 0603/1608	4723-202A	
R292	RMG, 1/16W, 13K, 1%, 0603	4723-133AR	
R293	RMG, 1/16W, 12K, 1%, 0603	4723-123AR	
R294	RMG, 1/16W, 12K, 1%, 0603	4723-123AR	
R295	RWR, 5W, 2.5 OHMS, 5%, SQZ, RL	474B-2R5J	
R296	RWR, 5W, 2.5 OHMS, 5%, SQZ, RL	474B-2R5J	
R297	RMG, 1/16W, 5.1K, 1%, 0603/1608	4723-512A	
R298	RMG, 1/16W, 2K, 1%, 0603/1608	4723-202A	
R299	RMF, 3W, 0.025 OHMS, 1%, ATW, NON-INDUCTIVE	471A-R025H	
R306	RMG, 1/10W, 220 OHMS, 5%, 0805	4720-221J	
R307	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R308	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R309	RMG, 1/8W, 1M, 1%, 1206	4721-105A	
R310	RMG, 1/8W, 560K, 1%, 1206	4721-564A	
R311	RMG, 1/8W, 560K, 1%, 1206	4721-564A	
R312	RMG, 1/16W, 10K, 1%, 0603/1608	4723-103A	
R313	RMG, 1/16W, 43K, 1%, 0603/1608	4723-433A	
R319	RMG, 1/10W, 56R, 1%, 0805	4720-560A	
R320	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R323	RMG, 1/16W, 47K, 1%, 0603	4723-473AR	
R324	RMG, 1/16W, 47K, 1%, 0603	4723-473AR	
R325	RMG, 1/16W, 47K, 1%, 0603	4723-473AR	
R326	RMG, 1/16W, 18K, 1%, 0603/1608	4723-183A	
R327	RMG, 1/10W, 56R, 1%, 0805	4720-560A	

ELECTRICAL PART LIST

SMPS PCB Assembly, PS602/PS602P/PS604

Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R328	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R338	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R339	RMG, 1/4W, 200K, 1%, 1206	4725-204A	
R340	RMG, 1/4W, 200K, 1%, 1206	4725-204A	
R345	RCF, 1/4W, 100K, 5%, AT	4705-104J	
R346	RCF, 1/4W, 100K, 5%, AT	4705-104J	
R351	RMG, 1/8W, 1.5K, 5%, 1206	4721-152J	
R352	RMG, 1/16W, 0 OHMS, 1%, 0603	4723-000A	
R353	RMG, 1/8W, 100 OHMS, 1%, 1206	4721-101A	
R354	RMG, 1/16W, 100 OHMS, 1%, 0603	4723-101A	
R355	RMG, 1/16W, 0 OHMS, 1%, 0603	4723-000A	
R356	VARISTOR, 320V, 10%, 6KV, 3KA, 10MM, RL	4735-0016	3 ⚠
R357	RMG, 1/10W, 45.3K, 1%, 0603	4720-4532	
R358	RMG, 1/10W, 4.02K, 1%, 0603	4720-4021	
R359	RMG, 1/16W, 44.2K, 1%, 0603	4723-4422	
R360	RMG, 1/10W, 4.02K, 1%, 0603	4720-4021	
R361	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R362	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R363	RMG, 1/8W, 4.7 OHMS, 1%, 1206	4721-4R7A	
R367	RMG, 1/16W, 2K, 1%, 0603/1608	4723-202A	
R368	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R389	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A	
R390	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A	
R391	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A	
R392	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A	
R393	RMG, 1/16W, 3.3K, 1%, 0603	4723-332AR	
R394	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R395	RMG, 1/16W, 510 OHMS, 1%, 0603	4723-511A	
R398	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C200	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C201	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C202	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C204	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C205	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C206	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C207	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C208	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C209	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C210	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C211	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C212	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C213	CC, 50V, 120pF, 5%, 0603, C0G	150F-121JAC	
C214	CE, 50V, 10uF, 20%, RLT, 5X11, 105C, RX, NOVER	157F-106MIUTU	
C215	CC, 25V, 10uF, 10%, 1206, 3.2X1.6, X5R	150E-106KCF	
C216	CC, 25V, 10uF, 10%, 1206, 3.2X1.6, X5R	150E-106KCF	

ELECTRICAL PART LIST

SMPS PCB Assembly, PS602/PS602P/PS604
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C218	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C219	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C220	CE, 100V, 2000uF, 20%, RL, 35X25, SNAP-105C	157H-208M^&T	
C221	CE, 100V, 2000uF, 20%, RL, 35X25, SNAP-105C	157H-208M^&T	
C225	CC, 500V, 0.022uF, 10%, 1206	150L-223KCF	
C226	CC, 500V, 0.022uF, 10%, 1206	150L-223KCF	
C227	CC, 630V, 0.1uF, 10%, 1812, X7R	150M-104KHF	
C232	CC, 100V, 100pF, 10%, 0805, 1.2X2, NPO	150H-101KBD	
C233	CC, 100V, 100pF, 10%, 0805, 1.2X2, NPO	150H-101KBD	
C234	CC, 100V, 100pF, 10%, 0805, 1.2X2, NPO	150H-101KBD	
C235	CC, 100V, 100pF, 10%, 0805, 1.2X2, NPO	150H-101KBD	
C239	CE, 35V, 100uF, 20%, RLT, 6.3X11, 105C, LOW ESR	157Q-107MLUTR	
C243	CC, 630V, 100pF, 5%, 1206, 3.2X1.6	150M-101JCF	
C244	CC, 630V, 100pF, 5%, 1206, 3.2X1.6	150M-101JCF	
C245	CC, 630V, 100pF, 5%, 1206, 3.2X1.6	150M-101JCF	
C246	CC, 630V, 100pF, 5%, 1206, 3.2X1.6	150M-101JCF	
C247	CC, 400V, 470pF, +20%, RL, 9.5X8.0, AH09B471KLO	150T-471MRO	3 ⚠
C248	CC, 400V, 470pF, +20%, RL, 9.5X8.0, AH09B471KLO	150T-471MRO	3
C249	CE, 450V, 270uF, 20%, RL, 35X30, SNAP-105C	1574-277M^$T	
C250	CE, 450V, 270uF, 20%, RL, 35X30, SNAP-105C	1574-277M^$T	
C251	CP, 275V, 0.47uF, 20%, RB, 18X16	158Z-474M75	3 ⚠
C252	CP, 275V, 0.47uF, 20%, RB, 18X16	158Z-474M75	3 ⚠
C254	CC, 1000V, 2200pF, 10%, 1206, X7R	150N-222KCF	
C255	CC, 1000V, 2200pF, 10%, 1206, X7R	150N-222KCF	
C256	CC, 50V, 1500pF, 10%, 0805, 1.2x2.0	150F-152KBD	
C257	CM, 400V, 0.47uF, 5%RB, 16X16, X7, METALLIZED, FARATRONIC	153T-474J55M4	3 ⚠
C259	CC, 50V, 0.1uF, 10%, 0805, 1.2X2.0	150F-104KBD	
C260	CC, 50V, 0.1uF, 10%, 0805, 1.2X2.0	150F-104KBD	
C261	CC, 50V, 0.1uF, 10%, 0805, 1.2X2.0	150F-104KBD	
C262	CC, 50V, 0.1uF, 10%, 0805, 1.2X2.0	150F-104KBD	
C263	CC, 50V, 0.1uF, 10%, 0805, 1.2X2.0	150F-104KBD	
C264	CC, 50V, 2200pF, 5%, 0603, 0.8X1.6	150F-222JAC	
C265	CC, 50V, 0.47uF, 10%, 0805, 1.25X2, X7R	150F-474KBD	
C266	CC, 50V, 0.33uF, 10%, 0805 (NOT USED ON PS604)	150F-334KBD	PS602 PS602P
C267	CE, 25V, 470uF, 20%, RLT, 10X16, 105C, RX, NOVER	157E-477MS5TU	
C268	CE, 35V, 1000uF, 20%, RLT, 10X30, 105C-LESR	157Q-108MS$TR	
C269	CE, 25V, 470uF, 20%, RLT, 10X16, 105C, RX, NOVER	157E-477MS5TU	
C270	CE, 35V, 1000uF, 20%, RLT, 10X30, 105C-LESR	157Q-108MS$TR	
C271	CE, 35V, 100uF, 20%, RLT, 6.3X11, 105C, LOW, ESR	157Q-107MLUTR	

ELECTRICAL PART LIST

SMPS PCB Assembly, PS602/PS602P/PS604
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C272	CE, 16V, 470uF, 20%, RLT, 10X12.5, 105C, LOW, ESR	157D-477MSXTR	
C273	CC, 50V, 0.47uF, 10%, 0805, 1.25X2, X7R	150F-474KBD	
C274	CC, 500V, 0.022uF, 10%, 1206	150L-223KCF	
C275	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C276	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C277	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C278	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C279	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C280	CE, 35V, 47uF, 20%, RLT, 6.3X11, 105C, RX, NOVER	157Q-476MLUTU	
C282	CM, 630V, 0.1uF, 10%, RB, 17X16X10, P15, FARATRONIC	153M-104K654	
C283	CM, 630V, 0.1uF, 10%, RB, 17X16X10, P15, FARATRONIC	153M-104K654	
C284	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C285	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C286	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C287	CC, 250V, 0.1uF, 10%, X7R, 1206, 1.6X3.2	150R-104KCF	
C288	CC, 250V, 0.1uF, 10%, X7R, 1206, 1.6X3.2	150R-104KCF	
C289	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C290	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C293	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C294	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C295	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C296	CE, 25V, 470uF, 20%, RLT, 10X16, 105C, RX, NOVER	157E-477MS5TU	
C297	CE, 16V, 470uF, 20%, RLT, 10X12.5, 105C, LOW, ESR	157D-477MSXTR	
C298	CC, 50V, 0.1uF, 10%, 0805, 1.2X2.0	150F-104KBD	
C299	CC, 50V, 0.1uF, 10%, 0805, 1.2X2.0	150F-104KBD	
C300	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C306	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C307	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C308	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C310	CER2, 1206, X7R, 50V, 100nF, PM10, R	150F-104KCF	
C311	CER2, 1206, X7R, 50V, 100nF, PM10, R	150F-104KCF	
C312	CC, 630V, 0.1uF, 10%, 1812, X7R	150M-104KHF	
C313	CC, 50V, 0.47uF, 10%, 0805, 1.25X2, X7R	150F-474KBD	
C314	CC, 500V, 0.022uF, 10%, 1206	150L-223KCF	
C315	CC, 630V, 0.1uF, 10%, 1812, X7R	150M-104KHF	
C316	CC, 250V, 220pF, 10%, RL, 8.4X6, X7R	150R-221KPK	3 ⚠
C317	CC, 250V, 220pF, 10%, RL, 8.4X6, X7R	150R-221KPK	3 ⚠
C318	CC, 50V, 0.1uF, 10%, 0805, 1.2X2.0	150F-104KBD	
C319	CC, 50V, 0.1uF, 10%, 0805, 1.2X2.0	150F-104KBD	
C324	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C325	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C326	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C327	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	

ELECTRICAL PART LIST

SMPS PCB Assembly, PS602/PS602P/PS604

Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C331	CC, 50V, 0.47uF, 10%, 0805, 1.25X2, X7R (NOT USED ON PS602 / PS602P)	150F-474KBD	PS604
C333	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	

Inductors

Reference Designator	Description	Vendor Part Number	Note
L200	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L201	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L202	FERRITE-BEAD, 2.0X1.2, 0805, 300R/100MHZ, 3A	1808-0913	
L203	FERRITE-BEAD, 2.0X1.2, 0805, 300R/100MHZ, 3A	1808-0913	
L204	FERRITE-BEAD, 2.0X1.2, 0805, 300R/100MHZ, 3A	1808-0913	
L207	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L211	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	

Diodes

Reference Designator	Description	Vendor Part Number	Note
BR200	DIODE, BRIDGE, 600V, 15A, GB, U15J, RL	480U-15J0	
D200	DIODE, IN5408-B, 3A, 1000V	4805-4080	
D201	DIODE, SCHOTTKY, SK16, DO-214AA, 60V, 1A, SMD, PANJIT	480S-K160	
D202	DIODE, SCHOTTKY, 650V, 6A, IDH06G65C5, TO-220, RL	4806-5C50	
D203	DIODE, SCHOTTKY, 200V, 20A, MBR20200FCT, ITO-220AB, RL	4800-FCT0	
D204	DIODE, SCHOTTKY, 200V, 20A, MBR20200FCT, ITO-220AB, RL	4800-FCT0	
D205	DIODE, SCHOTTKY, 200V, 20A, MBR20200FCT, ITO-220AB, RL	4800-FCT0	
D206	DIODE, SCHOTTKY, 200V, 20A, MBR20200FCT, ITO-220AB, RL	4800-FCT0	
D207	DIODE, SCHOTTKY, 40V, 2A, SK24, SMB, SM, PANJIT	480S-K240	
D208	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D209	DIODE, ULTRA, 600V, 1A, MURS, 160T3, SMB, CASE403A, SM	4806-0T30	
D210	DIODE, ULTRA, 600V, 1A, MURS, 160T3, SMB, CASE403A, SM	4806-0T30	
D211	DIODE, ULTRA, 600V, 1A, MURS, 160T3, SMB, CASE403A, SM	4806-0T30	
D212	DIODE, ULTRA, 600V, 1A, MURS, 160T3, SMB, CASE403A, SM	4806-0T30	
D213	DIODE, SUPPRESSOR, 200V, P6KE200A, AT	4802-00A0	
D214	DIODE, 600V, 1A, 75NS, US1J, SOD124	480U-S1J0	
D215	RECTIFIER, ES1D, 200V, 1.1A, SMD	4840-9190	
D216	DIODE, FAST, 75V, 0.5A, BAS316, SOD323, SM	480S-3160	
D217	DIODE, FAST, 75V, 0.5A, BAS316, SOD323, SM	480S-3160	
D218	DIODE, FAST, 75V, 0.5A, BAS316, SOD323, SM	480S-3160	
D219	DIODE, FAST, 75V, 0.5A, BAS316, SOD323, SM	480S-3160	
D222	DIODE, FAST, 75V, 0.5A, BAS316, SOD323, SM	480S-3160	
D223	DIODE, RECT, 200V, 2A, ER2D, SMB/DO-214AA	480E-R2D0	

ELECTRICAL PART LIST

SMPS PCB Assembly, PS602/PS602P/PS604

Diodes (continued)

Reference Designator	Description	Vendor Part Number	Note
D224	DIODE, RECT, 200V, 5A, ER502, AT	480R-5020	
D225	DIODE, FAST, 75V, 0.5A, BAS316, SOD323, SM	480S-3160	
D226	RECTIFIER, ES1D, 200V, 1.1A, SMD	4840-9190	
D227	DIODE, FAST, 75V, 0.5A, BAS316, SOD323, SM	480S-3160	
D229	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D230	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D232	DIODE, SCHOTTKY, SK16, DO-214AA, 60V, 1A, SMD, PANJIT	480S-K160	
Z200	DZ, 1/2W, 15V, 5%, SOD-123C, MMSZ5245BT1G	4837-15V9	
Z201	DZ, 1/2W, 18V, 5%, SOD-123C, MMSZ5248BT1G	4837-18V9	
Z202	DZ, 1/2W, 11V, 0.6V, BZX84JC11, SOD323F, SM, PHILIPS	4837-1103	
Z203	DZ, 1/2W, 18V, 5%, SOD-123C, MMSZ5248BT1G	4837-18V9	
Z204	DZ, 1/2W, 15V, 5%, SOD-123C, MMSZ5245BT1G	4837-15V9	
Z205	DZ, 1/2W, 11V, 0.6V, BZX84JC11, SOD323F, SM, PHILIPS	4837-1103	

Transistors

Reference Designator	Description	Vendor Part Number	Note
Q200	MOSFET, N-CH600V, TK20A60U20A, TO-220F, RL, TOSHIBA	490A-60U0	
Q201	MOSFET, N-CH600V, TK20A60U20A, TO-220F, RL, TOSHIBA	490A-60U0	
Q202	MOSFET, N-CH, 100V, IRLR3110, 63A, D-PAK, SM	4903-1100	
Q203	TR, 3904, HFE, 100-300, SM	4860-0640	
Q204	MOSFET, N-CH, 100V, IRLR3110, 63A, D-PAK, SM	4903-1100	
Q205	TR, NPN, BCP56-10, SOT223	485C-P560	
Q206	MOSFET, N-CH, 800V, 08N808A, TO220, RL	4908-N800	
Q207	TR, 3904, HFE, 100-300, SM	4860-0640	
Q208	TR, 3904, HFE, 100-300, SM	4860-0640	
Q209	MOSFET, N-CH, 650V, STP28N60M2, 22A, TO-220, RL	4906-0M20	
Q210	TR, MMBTA92, PNP, SOT23, KEC	4860-5360	
Q211	TR, NPN, BCP56-10, SOT223	485C-P560	
Q212	MOSFET, N-CH, 60V, 115MA, 2N7002, SOT-23, SM	4907-0020	
Q213	TR, 3904, HFE, 100-300, SM	4860-0640	
Q214	TR, 3904, HFE, 100-300, SM	4860-0640	
Q215	TR, 3904, HFE, 100-300, SM	4860-0640	
Q217	TR, 3906, PNP, SM	4853-9060	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U200	IC, DRIVER, NCP5181DR2G, SOIC-8	3132-8471	
U201	IC, LM19, THERMAL, SENSOR, TO-92, NS	3132-2581	
U202	IC, LM339, SMD, COMPARATORS	3132-1250	
U203	PHOTOCOUPLER, EL817S1, S1	4818-17S1	3 ⚠
U204	PHOTOCOUPLER, EL817S1, S1	4818-17S1	3 ⚠

ELECTRICAL PART LIST

SMPS PCB Assembly, PS602/PS602P/PS604

Integrated Circuits (continued)

Reference Designator	Description	Vendor Part Number	Note
U205	PHOTOCOUPLER, EL817S1, S1	4818-17S1	3 ⚠
U206	IC, REGULATOR, 5V, LM78L05ACM, SO-8	3131-3390	
U207	IC, PFC, CONTROLER, IR1155S, SO8	3132-9880	
U208	IC, POWER, NCP1271, SO-8, ONSEMI	3132-806111	
U209	IC, LLC, SMPS, UCC25600, SOIC-8	3132-8371	
U210	IC, REGULATOR, TL432BIDBZR, SOT-23-3, TI	3132-769116	
U211	IC, REGULATOR, TL432BIDBZR, SOT-23-3, TI	3132-769116	
U212	PHOTOCOUPLER, EL817S1, S1	4818-17S1	3 ⚠
U213	IC, LM317T, REGULATOR, ST	3130-5610	
U214	IC, REGULATOR, TL432BIDBZR, SOT-23-3, TI	3132-769116	
U215	IC, REGULATOR, TL432BIDBZR, SOT-23-3, TI	3132-769116	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
Clamp	SCREW, MACHINE, PAN, M3X8, CROSS-RECESS, BZ	2900-3008	
Clamp	CLAMP, IC, SUS301, T=1, NATURAL, 3/4H	4136-0932	
F200	FUSE, T6.3A, 250V, 8X8.5VDE/PSE/CCC, RLT, LITTLEFUSE	5120-1158L	3 ⚠
HS200	WASHER, METAL, ID, 3.3, 0D8, T=0.5	2600-3005	
HS200	NUT, HEX, M3X22X5.4, YZ	2640-3022	
HS200	SCREW, M3X10, W/S&F, WASHER, (BLK)	2900-3010	
HTS 120 70	SCREW, MACHINE, BIND, HEAD, M3X8, CROSS-RECESS, BZ	2904-3008	
Htsink IC	HEATSINK, IC, 25.4X12.7X30, AL, PLATE, MSMGMA100	5401-0181	
J201	12P, ST.WAFER, P=2.5, COULOMB	2102-121S	
J202	WAFER, 3PIN, P=3.96	2101-3065	
J203	WAFER, 3P, P7.92/11.88, STRAIGHT	2101-3097	
J204	JM24182-2P, WAFER	2101-9120	
J205	JM24182-2P, WAFER	2101-9120	
L=120	HEATSINK, SMPS, 14X30, L120, AL-EXT, ANODIZE, BLACK	5401-0701	
L=70	HEATSINK, SMPS, 14X30, L=70, AL-EXT, ANODIZE, BLACK	5401-0702	
NTC200	THERMISTOR, NTC, 5R, 20%, 240V, 6A, 200C, RL, THINKING	5202-0045	3 ⚠
Silicon PAD	INSULATN-SHEET, SIL-PAD, 800, 55X22	3101-0961	
T200	TRANS, PWR, 385V/80V, 600W, 4A, ER40	1806-4235	3 ⚠
T201	CHOKE, COMMON, MODE, 10MH, MIN, 5A, SPACERS, 2.5MM, AT	1805-0090	3 ⚠

ELECTRICAL PART LIST

SMPS PCB Assembly, PS602/PS602P/PS604
Miscellaneous (continued)

Reference Designator	Description	Vendor Part Number	Note
T202	CHOKE, COIL, 440UH, 15%, 17A, MI	1805-0570	3 ⚠
T203	CHOKE, COMMON, MODE, 10MH, MIN, 5A, SPACERS, 2.5MM, AT	1805-0090	3 ⚠
T204	TRANS, PWR, 385V, 40W, ER28	1806-4236	3 ⚠
T205	TRANS, CURRENT, 20A, EE8.3, SENSE	1806-4237	
T206	TRANS, CURRENT, 20A, EE8.3, SENSE	1806-4237	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS602

Resistors

Reference Designator	Description	Vendor Part Number	Note
R701	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R706	RMG, 1/16W, 5.1K, 1%, 0603/1608	4723-512A+P	
R707	RMG, 1/10W, 5.1K, 1%, 0805	4720-512A+J	
R708	RMG, 1/10W, 5.1K, 1%, 0805	4720-512A+J	
R710	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A+P	
R711	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A+P	
R734	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R735	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R745	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R747	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R756	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R757	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R758	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A+P	
R759	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A+P	
R760	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A+P	
R761	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A+P	
R762	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A+P	
R763	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A+P	
R764	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R767	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A+P	
R769	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R770	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R772	RMG, 1/16W, 470K, 1%, 0603	4723-474A+P	
R773	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R774	RMG, 1/16W, 3K, 1%, 0603	4723-302A+P	
R775	RMG, 1/16W, 3K, 1%, 0603	4723-302A+P	
R776	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R777	RMG, 1/16W, 470K, 1%, 0603	4723-474A+P	
R778	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R779	RMG, 1/16W, 1M, 1%, 0603	4723-105A+P	
R780	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R781	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R782	RMG, 1/16W, 1M, 1%, 0603	4723-105A+P	
R783	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R784	RMG, 1/16W, 1M, 1%, 0603	4723-105A+P	
R785	RMG, 1/16W, 1M, 1%, 0603	4723-105A+P	
R786	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R787	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R805	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R806	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R812	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A+J	
R813	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A+J	
R814	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A+J	
R815	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A+J	
R816	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A+J	
R817	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A+J	
R818	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A+P	
R852	RMG, 1/16W, 7.15K, 1%, 0603/1608	4723-7151+P	
R853	RMG, 1/16W, 8.87K, 1%, 0603/1608	4723-8871+P	
R854	RMG, 1/16W, 8.87K, 1%, 0603/1608	4723-8871+P	
R855	RMG, 1/16W, 7.15K, 1%, 0603/1608	4723-7151+P	
R860	RMG, 1/16W, 1M, 1%, 0603	4723-105A+P	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS602
Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R861	RMG, 1/16W, 1M, 1%, 0603	4723-105A+P	
R870	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R871	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R872	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R873	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R882	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R883	RMG, 1/16W, 10K, 1%, 0603, HK	4723-103A+P-R	
R886	RCFA, 1/16W, 47 OHM X4, 5%, 0603	4703-470J+P-04	
R887	RCFA, 1/16W, 47 OHM X4, 5%, 0603	4703-470J+P-04	
R888	RCFA, 1/16W, 47 OHM X4, 5%, 0603	4703-470J+P-04	
R889	RCFA, 1/16W, 47 OHM X4, 5%, 0603	4703-470J+P-04	
R890	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R891	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R892	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R893	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R894	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R895	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A+P	
R896	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A+P	
R897	RMG, 1/10W, 0 OHM, 1%, 0805	4720-000A+J	

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C700	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C701	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C702	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C703	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C704	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C705	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C710	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C711	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C712	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C713	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C715	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C716	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C717	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C718	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C727	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C728	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C729	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C730	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C731	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C732	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C733	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C734	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C735	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C736	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C737	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C738	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C741	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C743	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C746	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS602
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C747	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C749	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C750	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C752	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C753	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C776	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C777	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C785	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C786	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C788	CC, 100V, 0.1uF, 10%, 1206, AVX	150H-104K+6-CFD	
C789	CC, 100V, 0.1uF, 10%, 1206, AVX	150H-104K+6-CFD	
C790	CC, 100V, 0.1uF, 10%, 1206, AVX	150H-104K+6-CFD	
C799	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C800	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C802	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C803	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C804	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C805	CC, 50V, 0.1uFF, 10%, 0603, X7R	150F-104K+P-AC	
C812	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C813	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C814	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C815	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C816	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C817	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C831	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C832	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C833	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C834	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C846	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C847	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C848	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C849	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C856	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C857	CC, 6.3V, 22uF, 10%, 1206, 3.2X1.6	150B-226K+6-CF	
C859	CC, 16V, 0.1uF, 10%, 0603/1608, 1X2	150D-104K+P-AC	
C866	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C867	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C868	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C869	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C870	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C871	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C876	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C877	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C878	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C879	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C880	CC, 100V, 0.1uF, 10%, 0805, X7R	150H-104K+J-BD	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS602

Diodes

Reference Designator	Description	Vendor Part Number	Note
D702	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
D703	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
D704	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
D705	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
D706	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
D707	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
D717	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
Z700	DZ, 1/2W, 6.2VB, SMD, LL-34, ROHM (RLZTE-116.2B)	4837-6V21+3	
Z701	DZ, 1/2W, 6.2VB, SMD, LL-34, ROHM (RLZTE-116.2B)	4837-6V21+3	
Z704	DZ, 1/2W, 6.2VB, SMD, LL-34, ROHM (RLZTE-116.2B)	4837-6V21+3	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
UF704	IC, NJM2068M-#ZZZB, DUFAL, OP, AMP	3130-6890+0	
UF705	IC, NJM2068M-#ZZZB, DUFAL, OP, AMP	3130-6890+0	
UF706	IC, NJM2068M-#ZZZB, DUFAL, OP, AMP	3130-6890+0	
UF709	IC, NJM2068M-#ZZZB, DUFAL, OP, AMP	3130-6890+0	
UF711	IC, 16-CH, DEMULTIPLEXER, 74HC4067M96, SO24, TEXAS	3132-3021+0	
UF712	IC, 8BIT, SHIFT, REGISTER, 74HC166, SO-16	3132-3281+0	
UF715	IC, ANALOG-SW, DG211BDY-E3, SOIC-16	3133-0661+0	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
J701	SOCKET, M, 2P, P5, 300V, 15A, BLACK	2113-3361+1	
J703	RCA, JACK, F, 2P, P15, 30V, 0.3A, H=10+9.5, R/W	2113-3153+2	
J711B	CONN, PIN, HEADER, 4P, P2.54, ST, F	2101-3294+0	
J717	CONN, HEADER, 6P, P2.54, DIP, ST, M, L=8.54	2101-3393+0	
J718	CONN, HEADER, 6P, P2.54, DIP, ST, M, L=8.54	2101-3393+0	
J724	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376+1	
J725	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376+1	
J728	SOCKET, EUFRO, BLOCK, 3P, P5, STRAIGHT, GREEN	2113-3144+0	
J729	SOCKET, EUFRO, BLOCK, 3P, P5, STRAIGHT, GREEN	2113-3144+0	
J742	CONN, HEADER, 5P, P2.54, DIP, ST, M, L=11.08	2101-3409+0	
J743	CONN, HEADER, 5P, P2.54, DIP, ST, M, L=11.08	2101-3409+0	
J760B	CONNECTOR, PIN, HEADER, 4P, P2.54, ST, F	2101-3294+0	
J761B	CONNECTOR, PIN, HEADER, 4P, P2.54, ST, F	2101-3294+0	
VR705	VR, ROTARY, 20BKX1, 20%, V, L=15, 18 TEETH, CTR	4751-226E+0	
VR706	VR, ROTARY, 20BKX1, 20%, V, L=15, 18 TEETH, CTR	4751-226E+0	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS602P

Resistors

Reference Designator	Description	Vendor Part Number	Note
R701	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R706	RMG, 1/16W, 5.1K, 1%, 0603/1608	4723-512A	
R710	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R711	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R734	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R735	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R745	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R747	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R758	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A	
R759	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A	
R760	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A	
R761	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A	
R762	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A	
R763	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A	
R764	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R767	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A	
R769	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R770	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R772	RMG, 1/16W, 470K, 1%, 0603	4723-474A	
R773	RMG, 1/16W, 10K, 1%, 0603,	4723-103AR	
R774	RMG, 1/16W, 3K, 1%, 0603	4723-302A	
R775	RMG, 1/16W, 3K, 1%, 0603	4723-302A	
R776	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R777	RMG, 1/16W, 470K, 1%, 0603	4723-474A	
R778	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R779	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R780	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R781	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R782	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R783	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R784	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R785	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R786	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R787	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R805	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R806	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R812	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R813	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R814	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R815	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R816	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R817	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R818	RMG, 1/16W, 4.7K, 1%, 0603/1608.	4723-472A	
R852	RMG, 1/16W, 7.15K, 1%, 0603/1608	4723-7151	
R853	RMG, 1/16W, 8.87K, 1%, 0603/1608	4723-8871	
R854	RMG, 1/16W, 8.87K, 1%, 0603/1608	4723-8871	
R855	RMG, 1/16W, 7.15K, 1%, 0603/1608	4723-7151	
R870	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R871	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R872	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R873	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R874	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS602P

Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R875	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R882	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R883	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R887	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R888	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R890	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R891	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R892	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R893	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R894	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C700	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C703	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C704	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C705	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C710	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C711	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C712	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C715	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C716	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C717	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C718	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C727	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C728	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C731	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C732	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C733	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C734	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C735	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C736	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C737	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C738	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C741	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C743	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C746	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C747	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C749	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C750	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C752	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C753	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C788	CC, 100V, 0.1uF, 10%, 1206, AVX	150H-104KCFD	
C799	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C800	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C802	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C803	CC, 50V, 0.1uF, 10%, 0603X7R	150F-104KAC	
C804	CC, 50V, 0.1uF, 10%, 0603X7R	150F-104KAC	
C805	CC, 50V, 0.1uF, 10%, 0603X7R	150F-104KAC	
C812	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C813	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS602P

Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C814	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C815	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C816	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C817	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C831	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C832	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C833	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C834	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C846	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C847	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C848	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C849	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C850	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C851	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C856	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C857	CC, 6.3V, 22uF, 10%, 1206, 3.2X1.6	150B-226KCF	
C859	CC, 16V, 0.1uF, 10%, 0603/1608, 1X2	150D-104KAC	
C866	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C867	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C868	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C869	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C870	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C871	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C876	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C877	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C878	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C879	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	

Diodes

Reference Designator	Description	Vendor Part Number	Note
D702	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D703	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D704	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D705	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D706	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D707	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D717	DIODE, BAV99, SOT23, PHILIPS	4840-8970	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS602P

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U704	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U705	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U706	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U709	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U711	IC, 16-CH, DEMULTIPLEXER, 74HC4067M96, SO24, TEXAS	3132-3021	
U712	IC, 8BIT, SHIFT, REGISTER, 74HC166, SO-16	3132-3281	
U715	IC, ANALOG-SW, DG211BDY-E3, SOIC-16	3133-0661	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
J701	SOCKET, M, 2P, P5, 300V, 15A, BLACK	2113-3361	
J703	JACK, RCA, 2P, R/W, JK0200560N	2113-3109	
J711B	CONNECTOR, PIN, HEADER, 4P, P2.54, ST, F	2101-3294	
J717	CONN, HEADER, 6P, P2.54, DIP, ST, M, L=8.54	2101-3393	
J718	CONN, HEADER, 6P, P2.54, DIP, ST, M, L=8.54	2101-3393	
J724	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J725	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J726	JACK, COMBO, NCJ10FI-V-0, NEUTRIK	2113-3046	
J727	JACK, COMBO, NCJ10FI-V-0, NEUTRIK	2113-3046	
J728	SHEET, GROUND, BRASS, T=0.8, TIN, PLATED, MINI2	4136-0991	
J742	CONN, HEADER, 5P, P2.54, DIP, ST, M, L=11.08	2101-3409	
J743	CONN, HEADER, 5P, P2.54, DIP, ST, M, L=11.08	2101-3409	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS604

Resistors

Reference Designator	Description	Vendor Part Number	Note
R700	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R701	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R702	RMG, 1/10W, 0R, 1%, 0805	4720-000A	
R706	RMG, 1/16W, 5.1K, 1%, 0603/1608	4723-512A	
R707	RMG, 1/10W, 5.1K, 1%, 0805	4720-512A	
R708	RMG, 1/10W, 5.1K, 1%, 0805	4720-512A	
R720	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R721	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R722	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R723	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R724	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R725	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R726	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R727	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R735	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R747	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R754	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R755	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R756	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R757	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R758	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R759	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R760	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R761	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R762	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R763	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R764	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R767	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R778	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R779	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R780	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R781	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R782	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R783	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R784	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R785	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R786	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R787	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R789	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R790	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R791	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R792	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R794	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R795	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R796	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R797	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R798	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R799	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R800	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R801	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R802	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R803	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS604
Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R814	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R815	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R816	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R817	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R818	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R820	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R821	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R822	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R823	RMG, 1/10W, 100 OHM, 1%, 0805	4720-101A	
R830	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R831	RMG, 1/16W, 8.87K, 1%, 0603/1608	4723-8871	
R832	RMG, 1/16W, 7.15K, 1%, 0603/1608	4723-7151	
R833	RMG, 1/16W, 7.15K, 1%, 0603/1608	4723-7151	
R834	RMG, 1/16W, 8.87K, 1%, 0603/1608	4723-8871	
R835	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R836	RMG, 1/16W, 7.15K, 1%, 0603/1608	4723-7151	
R837	RMG, 1/16W, 8.87K, 1%, 0603/1608	4723-8871	
R838	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R839	RMG, 1/16W, 7.15K, 1%, 0603/1608	4723-7151	
R840	RMG, 1/16W, 8.87K, 1%, 0603/1608	4723-8871	
R841	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R853	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R854	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R860	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R861	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R862	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R863	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R870	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R871	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R872	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R873	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R878	RMG, 1/10W, 5.1K, 1%, 0805	4720-512A	
R879	RMG, 1/10W, 5.1K, 1%, 0805	4720-512A	
R882	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R883	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R884	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R885	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R886	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R887	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R888	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R889	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R890	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R891	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R892	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R893	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R894	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R895	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R896	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R897	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R898	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS604

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C700	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C701	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C702	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C703	CC, 100V, 0.1uF, 10%, 0805, X7R	150H-104KBD	
C710	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C711	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C712	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C715	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C716	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C717	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C718	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C719	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C720	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C721	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C722	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C729	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C730	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C731	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C732	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C733	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C734	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C735	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C736	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C737	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C738	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C746	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C747	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C749	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C750	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C752	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C753	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C758	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C759	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C760	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C761	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C762	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C765	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C774	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C775	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C776	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C777	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C780	CC, 50V, 0.1U, 5%, 0603	150F-104JAC	
C781	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C785	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C786	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C788	CC, 100V, 0.1uF, 10%, 1206, AVX	150H-104KCFD	
C789	CC, 100V, 0.1uF, 10%, 1206, AVX	150H-104KCFD	
C790	CC, 100V, 0.1uF, 10%, 1206, AVX	150H-104KCFD	
C791	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C792	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C793	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C794	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS604
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C795	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C796	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C797	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C798	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C799	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C800	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C801	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C803	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C814	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C815	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C816	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C817	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C821	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C822	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C823	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C824	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C831	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C834	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C846	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C847	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C848	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C849	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C850	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C851	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C852	CC, 100V, 0.1uF, 10%, 1206, AVX	150H-104KCFD	
C853	CC, 100V, 0.1uF, 10%, 1206, AVX	150H-104KCFD	
C854	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C855	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C856	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C857	CC, 6.3V, 22uF, 10%, 1206, 3.2X1.6	150B-226KCF	
C858	CC, 16V, 0.1uF, 10%, 0603/1608, 1X2	150D-104KAC	
C859	CC, 16V, 0.1uF, 10%, 0603/1608, 1X2	150D-104KAC	
C864	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C865	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C867	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C868	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C870	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C871	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C872	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C873	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C874	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C875	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C876	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C877	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C878	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C879	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C880	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C881	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C882	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C883	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C890	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C891	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS604

Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C892	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C893	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C894	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C895	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C896	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C897	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	

Diodes

Reference Designator	Description	Vendor Part Number	Note
D704	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D705	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D706	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D707	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D710	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D711	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D712	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D713	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D717	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
Z700	DZ, 1/2W, 6.2VB, SMD, LL-34, ROHM (RLZTE-116.2B)	4837-6V21	
Z701	DZ, 1/2W, 6.2VB, SMD, LL-34, ROHM (RLZTE-116.2B)	4837-6V21	
Z702	DZ, 1/2W, 6.2VB, SMD, LL-34, ROHM (RLZTE-116.2B)	4837-6V21	
Z703	DZ, 1/2W, 6.2VB, SMD, LL-34, ROHM (RLZTE-116.2B)	4837-6V21	
Z704	DZ, 1/2W, 6.2VB, SMD, LL-34, ROHM (RLZTE-116.2B)	4837-6V21	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U705	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U706	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U707	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U708	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U709	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U711	IC, 16-CH, DEMULTIPLEXER, 74HC4067M96, SO24, TEXAS	3132-3021	
U712	IC, 8BIT, SHIFT, REGISTER, 74HC166, SO-16	3132-3281	
U713	IC, 8BIT, SHIFT, REGISTER, 74HC166, SO-16	3132-3281	
U714	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U715	IC, ANALOG-SW, DG211BDY-E3, SOIC-16	3133-0661	

ELECTRICAL PART LIST

Rear Panel PCB Assembly, PS604
Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
J701	SOCKET, M, 2P, P5, 300V, 15A, BLACK	2113-3361	
J711B	CONNECTOR, PIN, HEADER, 4P, P2.54, ST, F	2101-3294	
J717	CONN, HEADER, 8P, P2.54, DIP, ST, M, L=8.54	2101-3408	
J718	CONN, HEADER, 8P, P2.54, DIP, ST, M, L=8.54	2101-3408	
J724	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J725	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J728	DIN, SOCKET, M, 12P, P5, 300V, 15A, 60, GREEN	2113-3458	
J740	CONN, HEADER, 5P, P2.54, DIP, ST, M, L=11.08	2101-3409	
J741	CONN, HEADER, 5P, P2.54, DIP, ST, M, L=11.08	2101-3409	
J742	CONN, HEADER, 5P, P2.54, DIP, ST, M, L=11.08	2101-3409	
J743	CONN, HEADER, 5P, P2.54, DIP, ST, M, L=11.08	2101-3409	
J760B	CONN, PIN, HEADER, 4P, P2.54, ST, F	2101-3294	
J761B	CONN, PIN, HEADER, 4P, P2.54, ST, F	2101-3294	
VR705	VR, ROT, 20BKX1, 20%, V, L=15, 18TEETH, CTR	4751-226E	
VR706	VR, ROT, 20BKX1, 20%, V, L=15, 18TEETH, CTR	4751-226E	
VR707	VR, ROT, 20BKX1, 20%, V, L=15, 18TEETH, CTR	4751-226E	
VR708	VR, ROT, 20BKX1, 20%, V, L=15, 18TEETH, CTR	4751-226E	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602
Resistors

Reference Designator	Description	Vendor Part Number	Note
R400	RMG, 1/10W, 4.53K, 1%, 0603	4720-4531	
R402	RMG, 1/10W, 4.53K, 1%, 0603	4720-4531	
R403	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R405	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R407	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R408	RMG, 1/16W, 30.9K, 1%, 0603/1608	4723-3092	
R409	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R410	RMG, 1/16W, 3.9K, 5%, 0603	4723-392JR	
R411	RMG, 1/16W, 3.9K, 5%, 0603	4723-392JR	
R412	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R413	RMG, 1/16W, 4.3K, 1%, 0603/1608	4723-432A	
R414	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R415	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R416	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R417	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R418	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R419	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R420	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R421	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R422	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R427	RMG, 1/16W, 2K, 1%, 0603/1608	4723-202A	
R428	RMG, 1/16W, 2K, 1%, 0603/1608	4723-202A	
R429	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R430	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R431	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R432	RMG, 1/16W, 5.1K, 1%, 0603/1608	4723-512A	
R433	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R434	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R435	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R436	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R437	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R438	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R439	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R440	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R441	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R442	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R447	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R448	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R449	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R450	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R451	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R452	RMG, 1/16W, 8.2K, 1%, 0603/1608	4723-822A	
R453	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R465	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R466	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R467	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R468	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R469	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R470	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R471	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R472	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R473	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602

Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R474	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R475	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R476	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R481	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R482	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R483	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R484	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R485	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R486	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R487	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R488	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R489	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R490	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R491	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R492	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R493	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R494	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R495	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R496	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R497	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R499	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R500	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R501	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R502	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R503	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R504	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R505	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R506	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R507	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R508	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R509	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R510	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R512	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R513	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R514	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R516	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R517	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R518	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R519	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R520	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R526	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R527	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R530	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R531	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R532	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R533	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R538	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R539	RMG, 1/16W, 47K, 1%, 0603	4723-473AR	
R542	RCFA, 1/16W, 47 OHM X4, 5%, 0603	4703-470J04	
R543	RCFA, 1/16W, 47 OHM X4, 5%, 0603	4703-470J04	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602
Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R544	RCFA, 1/16W, 47 OHM X4, 5%, 0603	4703-470J04	
R545	RCFA, 1/16W, 47 OHM X4, 5%, 0603	4703-470J04	
R547	RCFA, 1/16W, 47 OHM X4, 5%, 0603	4703-470J04	
R548	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R549	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R551	RMG, 1/10W, 301 OHM, 1%, 0805	4720-3010	
R552	RMG, 1/10W, 301 OHM, 1%, 0805	4720-3010	
R554	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R556	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R557	RMG, 1/16W, 1.78K, 1%, 0603	4723-1781	
R558	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R559	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R560	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R561	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R562	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R564	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R567	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R568	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R569	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R570	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R571	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R572	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R573	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R574	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R575	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R576	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R577	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R583	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R584	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R585	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R586	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R599	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R602	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R604	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R605	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R606	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R611	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R612	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A	
R613	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A	
R614	RMG, 1/10W, 47K, 1%, 0805	4720-473A	
R615	RMG, 1/16W, 22K, 1%, 0603	4723-223AR	
R616	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R617	RMG, 1/16W, 22 OHM, 5%, 0603	4723-220JR	
R618	RMG, 1/16W, 22 OHM, 5%, 0603	4723-220JR	
R621	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R622	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R623	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R624	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R629	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R630	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R631	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R632	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602

Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R633	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R634	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R635	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R636	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R645	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R646	RMG, 1/10W, 499 OHM, 1%, 0805	4720-4990	
R647	RMG, 1/16W, 1.58K, 1%, 0603	4723-1581	
R648	RMG, 1/10W, 1.62K, 1%, 0603	4720-1621	
R649	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R650	RMG, 1/16W, 150 OHM, 1%, 0603	4723-151AR	
R651	RMG, 1/16W, 5.6K, 1%, 0603/1608	4723-562A	
R652	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R653	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R654	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R655	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C400	CC, 6.3V, 22uF, 10%, 1206, 3.2X1.6	150B-226KCF	
C401	CC, 6.3V, 22uF, 10%, 1206, 3.2X1.6	150B-226KCF	
C402	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C403	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C404	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C405	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C406	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C407	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C408	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C409	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C410	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C412	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C413	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C414	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C415	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C416	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C417	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C418	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C419	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C421	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C422	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C423	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C425	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C426	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C427	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C428	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C429	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C430	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C431	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C432	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C433	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C434	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C435	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C436	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C437	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C438	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C439	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C440	CE, 25V, 100uF, 20%, 6.3X7.7, SMD	157E-107MLO	
C441	CE, 25V, 100uF, 20%, 6.3X7.7, SMD	157E-107MLO	
C442	CC, 25V, 10uF, 10%, 1206, 3.2X1.6, X5R	150E-106KCF	
C443	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C444	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C445	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C446	CT, 16V, 10uF, 20%, SMD, 1.6X3.2	154D-106MCF	
C447	CT, 25V, 3.3uF, 20%, SM, 2.8X3.5	154E-335MEF	
C448	CT, 16V, 47uF, 10%, SMD, 85C, 6.0X3.2	154D-476KKF	
C449	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C450	CE, 25V, 220uF, 20%, SM, 8.4X10, LOW, ESR, LELON	157E-227MPSR5	
C451	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C452	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C453	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C454	CE, 35V, 47uF, 20%, SM, 6.6X5.7, LOW, ESR	157Q-476MMKR5	
C455	CE, 35V, 47uF, 20%, SM, 6.6X5.7, LOW, ESR	157Q-476MMKR5	
C456	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C458	CT, 35V, 4.7uF, 20%, SMD, 3.5X2.8	154Q-475MFE	
C459	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272KAC	
C460	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C461	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C462	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C463	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C468	CT, 6.3V, 100uF, 20%, SMD, 3.5X2.8MM	154B-107MFE	
C469	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C470	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C471	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C472	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C473	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C474	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C475	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C476	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C477	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C478	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C479	CT, 10V, 10uF, 20%, SM, 1.6X3.2	154C-106MCF	
C480	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C481	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C482	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C483	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C484	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C485	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C490	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C491	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C492	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C493	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C498	CE, 6.3V, 100uF, 20%, SM, 06.3, L5.4	157B-107MLJ	
C499	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C500	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C501	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C502	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C503	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C504	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C507	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C508	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C509	CC, 50V, 5600pF, 10%, 0603, X7R	150F-562KAC	
C510	CC, 50V, 150pF, 5%, 0603, C0G	150F-151JAC	
C511	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C512	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C518	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C519	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C526	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C527	CT, 6.3V, 47uF, 10%, SMD, 85C, 1.6X3.2	154B-476KCF	
C531	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C532	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C533	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C534	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C535	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C539	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C540	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C541	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C542	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C543	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C544	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C547	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C548	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C549	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C550	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C556	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C557	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C558	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C559	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C560	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C562	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C564	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C567	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C570	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C571	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C572	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C573	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C578	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C580	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272KAC	
C581	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C582	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C584	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272KAC	
C585	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C595	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C596	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C597	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C598	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602

Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C599	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C600	CC, 100V, 0.1uF, 10%, 0805, X7R	150H-104KBD	
C601	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C602	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	

Inductors

Reference Designator	Description	Vendor Part Number	Note
L400	INDUCTOR, 22UH, 20%, 8.1X8, B1000AS-220M=P3, SMD, TOKO	1803-0103	
L401	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L402	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L403	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L404	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L405	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L406	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L407	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L408	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L409	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L410	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L411	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L412	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L413	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L414	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L415	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	

Diodes

Reference Designator	Description	Vendor Part Number	Note
D400	DIODE, SCHOTTKY, SK16, DO-214AA, 60V, 1A, SMD, PANJIT	480S-K160	
D401	DIODE, SCHOTTKY, SK16, DO-214AA, 60V, 1A, SMD, PANJIT	480S-K160	
D402	LED, SMD, 2.0X1.25X0.8, GN, SUPER, EVLITE	3700-7839	
D403	LED, SMD, 2.0X1.25X0.8, RD, SUPER, EVLITE	3700-7839	
D404	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D405	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D406	LED, SMD, 2.0X1.25X0.8, GN, SUPER, EVLITE	3700-7839	
D407	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D408	LED, SMD, 2.0X1.25X0.8, RD, SUPER, EVLITE	3700-7839	
D410	DIODE, 1SS355TE-17, ROHM	4840-1660	
D415	DOUBLE, DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D416	DOUBLE, DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D417	DOUBLE, DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D418	DOUBLE, DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602

Transistors

Reference Designator	Description	Vendor Part Number	Note
Q409	TR, KTA1504Y	4851-504Y	
Q410	TR, PNP, 2SA2058, HFE:, 1252-3S1A, SM	4852-0580	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U400	IC, MCU, LPC11U35FBD48, LQFP48	3132-9481	
U401	IC, FLASH, MX25L4006EM1, 8-SOP	3132-8711	
U402	IC, DSP, ADAU1450W, LFCSP72	3132-9471	
U403	IC, REG, NCP1117ST33T3G, 3.3V, SOT-223, ONSEMI	3132-148111	
U404	IC, 16-CH, DEMULTIPLEXER, 74HC4067M96, SO24, TEXAS	3132-3021	
U406	IC, SETP-DOWN, CONVERTER, MP1591DN, SOIC8N, MPS	3132-4711	
U407	IC, ASIC, SN74LVC2G17, DCK	3132-7450	
U408	IC, REGULATOR, 7815, DPAK/TO-252, AUK	3132-816149	
U410	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U411	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U415	IC, EXTEND, 74HC4094, SO16	3132-4431	
U416	IC, REGULATOR, -15V, 7915, DPAK/TO-252, AUK	3132-817149	
U419	IC, CODEC, CS4272-CZZ, 28PIN, TSSOP, CIRRUS LOGIC	3132-4471	
U421	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U422	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U425	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U426	IC, REGULATOR, TL432BIDBZR, SOT-23-3, TI	3132-769116	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
J400	WAFER, 10, PIN, P2	2102-100S	
J401	12P, ST.WAFER, P=2.5, COULOMB	2102-121S	
J403	CONN, FFC, 10P, P0.5, SMT, ST, F	2101-3375	
J405	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J406	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J408	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J409	CONN, HEADER, 7P, P2.54, ST, M, SINGLE, BODY	2101-3297	
X400	CRYSTAL, HC49, 12.288MHZ, 20PPM, 4.7X13, SMD	2300-3284	
X401	CRYSTAL, 12MHZ, -40C, SMD	2300-2430	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602P

Resistors

Reference Designator	Description	Vendor Part Number	Note
R400	RMG, 1/10W, 4.53K, 1%, 0603	4720-4531+P	
R402	RMG, 1/10W, 4.53K, 1%, 0603	4720-4531+P	
R403	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R405	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R407	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R408	RMG, 1/16W, 30.9K, 1%, 0603/1608	4723-3092+P	
R409	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R410	RMG, 1/16W, 3.9K, 5%, 0603	4723-392J+P-R	
R411	RMG, 1/16W, 3.9K, 5%, 0603	4723-392J+P-R	
R412	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A+P	
R413	RMG, 1/16W, 4.3K, 1%, 0603/1608	4723-432A+P	
R414	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A+P	
R415	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A+P	
R416	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A+P	
R417	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A+P	
R418	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A+P	
R419	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R420	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R421	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R422	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R427	RMG, 1/16W, 2K, 1%, 0603/1608	4723-202A+P	
R428	RMG, 1/16W, 2K, 1%, 0603/1608	4723-202A+P	
R429	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R430	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R431	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R432	RMG, 1/16W, 5.1K, 1%, 0603/1608	4723-512A+P	
R433	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A+P	
R434	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A+P	
R435	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A+P	
R436	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R437	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R438	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A+P	
R439	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551+P	
R440	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551+P	
R441	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551+P	
R442	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551+P	
R447	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R448	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R449	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R450	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R451	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R452	RMG, 1/16W, 8.2K, 1%, 0603/1608	4723-822A+P	
R453	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R465	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R466	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R467	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R468	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R469	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R470	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R471	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R472	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R473	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602P

Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R474	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R475	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R476	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R480	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R481	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R482	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R483	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R484	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R485	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R486	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R487	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R488	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R489	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R490	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R491	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R492	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R493	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R494	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R495	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R496	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R497	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R498	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R499	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R500	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R501	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R502	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R503	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R504	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R505	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R506	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R507	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R508	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R509	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R510	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R511	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R513	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R514	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A+P	
R515	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A+P	
R517	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A+P	
R518	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A+P	
R519	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A+P	
R520	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R526	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R527	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R530	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340+P	
R531	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340+P	
R532	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340+P	
R533	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340+P	
R538	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R539	RMG, 1/16W, 47K, 1%, 0603	4723-473A+P-R	
R542	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J+P-04	
R543	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J+P-04	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602P
Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R544	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J+P-04	
R545	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J+P-04	
R547	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J+P-04	
R548	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R549	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R551	RMG, 1/10W, 301 OHM, 1%, 0805	4720-3010+J	
R552	RMG, 1/10W, 301 OHM, 1%, 0805	4720-3010+J	
R554	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R556	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R557	RMG, 1/16W, 1.78K, 1%, 0603	4723-1781+P	
R558	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R+P	
R559	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R560	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R+P	
R561	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R+P	
R562	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R+P	
R564	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A+P	
R567	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R568	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R569	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R570	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R571	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R572	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R573	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R574	RMG, 1/16W, 100K, 1%, 0603	4723-104A+P-R	
R575	RMG, 1/16W, 100K, 1%, 0603	4723-104A+P-R	
R576	RMG, 1/16W, 100K, 1%, 0603	4723-104A+P-R	
R577	RMG, 1/16W, 100K, 1%, 0603	4723-104A+P-R	
R583	RMG, 1/16W, 100K, 1%, 0603	4723-104A+P-R	
R584	RMG, 1/16W, 100K, 1%, 0603	4723-104A+P-R	
R585	RMG, 1/16W, 100K, 1%, 0603	4723-104A+P-R	
R586	RMG, 1/16W, 100K, 1%, 0603	4723-104A+P-R	
R599	RMG, 1/16W, 1M, 1%, 0603	4723-105A+P	
R602	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A+P	
R604	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R605	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A+P	
R606	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A+P	
R611	RMG, 1/16W, 1.5K, 1%, 0603	4723-152A+P-R	
R612	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A+P	
R613	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A+P	
R614	RMG, 1/10W, 47K, 1%, 0805	4720-473A+J	
R615	RMG, 1/16W, 22K, 1%, 0603	4723-223A+P-R	
R616	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A+P	
R617	RMG, 1/16W, 22 OHM, 5%, 0603	4723-220J+P-R	
R618	RMG, 1/16W, 22 OHM, 5%, 0603	4723-220J+P-R	
R621	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R622	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R623	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R624	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R629	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R630	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R631	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R632	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602P

Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R633	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R634	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R635	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R636	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991+P	
R645	RMG, 1/16W, 10K, 1%, 0603	4723-103A+P-R	
R651	RMG, 1/16W, 5.6K, 1%, 0603/1608	4723-562A+P	
R652	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R653	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R654	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	
R655	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A+P	

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C400	CC, 6.3V, 22uF, 10%, 1206, 3.2X1.6	150B-226K+6-CF	
C401	CC, 6.3V, 22uF, 10%, 1206, 3.2X1.6	150B-226K+6-CF	
C402	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102J+P-AC	
C403	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C404	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C405	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C406	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C407	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C408	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C409	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C410	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C412	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C413	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C414	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C415	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C416	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C417	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C418	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C419	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C421	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C422	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C423	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C425	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C426	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C427	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C428	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C429	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C430	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C431	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C432	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C433	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C434	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C435	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C436	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C437	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C438	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C439	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C440	CE, 25V, 100uF, 20%, 6.3X7.7, SMD	157E-107M+3-LO	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602P
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C441	CE, 25V, 100uF, 20%, 6.3X7.7, SMD	157E-107M+3-LO	
C442	CC, 25V, 10uF, 10%, 1206, 3.2X1.6, X5R	150E-106K+6-CF	
C443	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C444	CC, 50V, 0.01uF, 5%, 0603	150F-103J+P-AC	
C445	CC, 50V, 0.01uF, 5%, 0603	150F-103J+P-AC	
C446	CT, 16V, 10uF, 20%, SMD, 1.6X3.2	154D-106M+3-CF	
C447	CT, 25V, 3.3uF, 20%, SM, 2.8X3.5	154E-335M+3-EF	
C448	CT, 16V, 47uF, 10%, SMD, 85C, 6.0X3.2	154D-476K+3-KF	
C449	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C450	CE, 25V, 220uF, 20%, SM, 8.4X10, LOW, ESR	157E-227M+3-PSR5	
C451	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105K+P-AC	
C452	CC, 50V, 22pF, 5%, 0603, C0G	150F-220J+P-AC	
C453	CC, 50V, 22pF, 5%, 0603, C0G	150F-220J+P-AC	
C454	CE, 35V, 47uF, 20%, SM, 6.6X5.7, LOW, ESR	157Q-476M+3-MKR5	
C455	CE, 35V, 47uF, 20%, SM, 6.6X5.7, LOW, ESR	157Q-476M+3-MKR5	
C456	CC, 50V, 1uF, 10%, 0805	150F-105K+J-BD	
C458	CT, 35V, 4.7uF, 20%, SMD, 3.5X2.8	154Q-475M+3-FE	
C459	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272K+P-AC	
C460	CC, 50V, 10pF, 5%, 0603, C0G	150F-100J+P-AC	
C461	CC, 50V, 10pF, 5%, 0603, C0G	150F-100J+P-AC	
C462	CC, 50V, 10pF, 5%, 0603, C0G	150F-100J+P-AC	
C463	CC, 50V, 10pF, 5%, 0603, C0G	150F-100J+P-AC	
C468	CT, 6.3V, 100uF, 20%, SMD, 3.5X2.8MM	154B-107M+3-FE	
C469	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C470	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C471	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C472	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C473	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105K+P-AC	
C474	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105K+P-AC	
C475	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105K+P-AC	
C476	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105K+P-AC	
C477	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C478	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C479	CT, 10V, 10uF, 20%, SM, 1.6X3.2	154C-106M+3-CF	
C480	CC, 50V, 1uF, 10%, 0805	150F-105K+J-BD	
C481	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C482	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C483	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C484	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C485	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C490	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C491	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C492	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C493	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C498	CE, 6.3V, 100uF, 20%, SM, 06.3, L5.4	157B-107M+3-LJ	
C499	CC, 50V, 22pF, 5%, 0603, C0G	150F-220J+P-AC	
C500	CC, 50V, 22pF, 5%, 0603, C0G	150F-220J+P-AC	
C501	CC, 50V, 22pF, 5%, 0603, C0G	150F-220J+P-AC	
C502	CC, 50V, 22pF, 5%, 0603, C0G	150F-220J+P-AC	
C503	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C504	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C507	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602P
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C508	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C509	CC, 50V, 5600pF, 10%, 0603, X7R	150F-562K+P-AC	
C510	CC, 50V, 150pF, 5%, 0603, C0G	150F-151J+P-AC	
C511	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C512	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C518	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C519	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C526	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C527	CT, 6.3V, 47uF, 10%, SMD, 85C, 1.6X3.2	154B-476K+3-CF	
C531	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C532	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C533	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C534	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C535	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C539	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C540	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C541	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C542	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C543	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C544	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C545	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C546	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C547	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C548	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C549	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C550	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C556	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C557	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C558	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C559	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C560	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106M+3-EJ	
C562	CC, 50V, 0.1uF, 5%, 0603	150F-104J+P-AC	
C564	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C567	CC, 50V, 1U, 10%, 0805	150F-105K+J-BD	
C570	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C571	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C572	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C573	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C578	CC, 50V, 100PF, 5%, 0603, C0G	150F-101J+P-AC	
C580	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272K+P-AC	
C581	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C582	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C584	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272K+P-AC	
C585	CC, 50V, 100pF, 5%, 0603, C0G	150F-101J+P-AC	
C595	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C596	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104K+P-AC	
C597	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C598	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103K+P-AC	
C601	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105K+P-AC	
C602	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105K+P-AC	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602P

Inductors

Reference Designator	Description	Vendor Part Number	Note
L400	INDUCTOR, 22uH, 20%, 8.1X8, B1000AS-220M=P3, SMD, TOKO	1803-0103+0	
L401	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872+0	
L402	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872+0	
L403	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872+0	
L404	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872+0	
L405	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872+0	
L406	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	
L407	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	
L408	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	
L409	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	
L410	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	
L411	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	
L412	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	
L413	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	
L414	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	
L415	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878+0	

Diodes

Reference Designator	Description	Vendor Part Number	Note
D400	DIODE, SCHOTTKY, SK16, DO-214AA, 60V, 1A, SMD, PANJIT	480S-K160+3	
D401	DIODE, SCHOTTKY, SK16, DO-214AA, 60V, 1A, SMD, PANJIT	480S-K160+3	
D402	LED, SMD, 2.0X1.25X0.8, GN, SUPER, EVLITE	3700-7839+G	
D403	LED, SMD, 2.0X1.25X0.8, RD, SUPER, EVLITE	3700-7839+R	
D404	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
D405	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
D406	LED, SMD, 2.0X1.25X0.8, GN, SUPER, EVLITE	3700-7839+G	
D407	DIODE, BAV99, SOT23, PHILIPS	4840-8970+3	
D408	LED, SMD, 2.0X1.25X0.8, RD, SUPER, EVLITE	3700-7839+R	
D410	DIODE, 1SS355TE-17, ROHM	4840-1660+0	
D415	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0+3	
D416	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0+3	
D417	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0+3	
D418	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0+3	

Transistors

Reference Designator	Description	Vendor Part Number	Note
Q409	TR, KTA1504Y	4851-504Y+3	
Q410	TR, PNP, 2SA2058, HFE:, 125, 2-3S1A, SM	4852-0580+3	

ELECTRICAL PART LIST

DSP PCB Assembly, PS602P

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U400	IC, MCU, LPC11U35FBD48, LQFP48	3132-9481+0	
U401	IC, FLASH, MX25L4006EM1, 8-SOP	3132-8711+0	
U402	IC, DSP, ADAU1450W, LFCSP72	3132-9471+0	
U403	IC, REG, NCP1117ST33T3G, 3.3V, SOT-223, ONSEMI	3132-1481+0-11	
U404	IC, 16-CH, DEMULTIPLEXER, 74HC4067M96, SO24, TEXAS	3132-3021+0	
U406	IC, SETP-DOWN, CONVERTER, MP1591DN, SOIC8N, MPS	3132-4711+0	
U407	IC, ASIC, SN74LVC2G17, DCK	3132-7450+0	
U408	IC, REGULATOR, +15V, 7815, DPAK/TO-252, AUK	3132-8161+0-49	
U410	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890+0	
U411	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890+0	
U415	IC, EXTEND, 74HC4094, SO16	3132-4431+0	
U416	IC, REGULATOR, +15V, 7815, DPAK/TO-252, AUK	3132-8171+0-49	
U419	IC, CODEC, CS4272-CZZ, 28PIN, TSSOP, CIRRUS LOGIC	3132-4471+0	
U421	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890+0	
U422	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890+0	
U425	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890+0	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
J400	WAFER, 10, PIN, P2	2102-100S+003	
J401	12P, ST.WAFER, P=2.5, COULOMB	2102-121S+004	
J403	CONN, FFC, 10P, P0.5, SMT, ST, F	2101-3375+1	
J405	CONN, FFC, 10P, P0.5, SMT, ST, F	2101-3376+1	
J406	CONN, FFC, 10P, P0.5, SMT, ST, F	2101-3376+1	
J408	CONN, FFC, 10P, P0.5, SMT, ST, F	2101-3376+1	
J409	CONN, HEADER, 7P, P2.54, ST, M, SINGLE, BODY	2101-3297+0	
X400	CRYSTAL, HC49, 12.288MHZ+/-20PPM, 4.7X13, SMD	2300-3284+0	
X401	CRYSTAL, 12MHZ, -40+85, C, SMD	2300-2430+0	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604

Resistors

Reference Designator	Description	Vendor Part Number	Note
R400	RMG, 1/10W, 4.53K, 1%, 0603	4720-4531	
R401	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R402	RMG, 1/10W, 4.53K, 1%, 0603	4720-4531	
R403	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R404	RMG, 1/10W, 4.53K, 1%, 0603	4720-4531	
R405	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R406	RMG, 1/10W, 4.53K, 1%, 0603	4720-4531	
R407	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R408	RMG, 1/16W, 30.9K, 1%, 0603/1608	4723-3092	
R409	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R410	RMG, 1/16W, 3.9K, 5%, 0603	4723-392JR	
R411	RMG, 1/16W, 3.9K, 5%, 0603	4723-392JR	
R412	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R413	RMG, 1/16W, 4.3K, 1%, 0603/1608	4723-432A	
R414	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R415	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R416	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R417	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R418	RMG, 1/16W, 4.7K, 1%, 0603/1608	4723-472A	
R419	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R420	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R421	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R422	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R427	RMG, 1/16W, 2K, 1%, 0603/1608	4723-202A	
R428	RMG, 1/16W, 2K, 1%, 0603/1608	4723-202A	
R429	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R430	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R431	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R432	RMG, 1/16W, 5.1K, 1%, 0603/1608	4723-512A	
R433	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R434	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R435	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R436	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R437	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R438	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R439	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R440	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R441	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R442	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R443	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R444	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R445	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R446	RMG, 1/10W, 2.55K, 1%, 0603	4720-2551	
R447	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R448	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R449	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R450	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R451	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R452	RMG, 1/16W, 8.2K, 1%, 0603/1608	4723-822A	
R453	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R465	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R466	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604
Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R467	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R468	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R469	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R470	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R471	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R472	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R473	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R474	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R475	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R476	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R480	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R481	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R482	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R483	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R484	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R485	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R486	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R487	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R488	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R489	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R490	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R491	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R492	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R493	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R494	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R495	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R496	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R497	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R498	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R499	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R500	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R501	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R502	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R503	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R504	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R505	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R506	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R507	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R508	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R509	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R510	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R511	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R512	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R513	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R514	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R517	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R518	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R519	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R520	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R524	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R525	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R526	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604
Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R527	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R528	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R529	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R530	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R531	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R532	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R533	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R535	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R536	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R537	RMG, 1/16W, 634 OHM, 1%, 0603	4723-6340	
R538	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R539	RMG, 1/16W, 47K, 1%, 0603	4723-473AR	
R540	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R541	RMG, 1/16W, 47K, 1%, 0603	4723-473AR	
R542	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R543	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R544	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R545	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R546	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R547	RCFA, 1/16W, 47RX4, 5%, 0603	4703-470J04	
R548	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R549	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R551	RMG, 1/10W, 301 OHM, 1%, 0805	4720-3010	
R552	RMG, 1/10W, 301 OHM, 1%, 0805	4720-3010	
R553	RMG, 1/10W, 301 OHM, 1%, 0805	4720-3010	
R554	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R555	RMG, 1/10W, 301 OHM, 1%, 0805	4720-3010	
R556	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R557	RMG, 1/16W, 1.78K, 1%, 0603	4723-1781	
R558	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R559	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R560	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R561	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R562	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R563	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R564	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R565	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R566	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R567	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R568	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R569	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R570	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R571	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R572	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R573	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R574	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R575	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R576	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R577	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R578	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R579	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R580	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604
Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R581	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R582	RMG, 1/16W, 806 OHM, 1%, 0603	4723-806R	
R583	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R584	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R585	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R586	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R587	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R588	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R589	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R590	RMG, 1/16W, 100K, 1%, 0603	4723-104AR	
R599	RMG, 1/16W, 1M, 1%, 0603	4723-105A	
R602	RMG, 1/16W, 33 OHM, 1%, 0603	4723-330A	
R604	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R605	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R606	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R611	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R612	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A	
R613	RMG, 1/16W, 2.2K, 1%, 0603/1608	4723-222A	
R614	RMG, 1/10W, 47K, 1%, 0805	4720-473A	
R615	RMG, 1/16W, 22K, 1%, 0603	4723-223AR	
R616	RMG, 1/16W, 1K, 1%, 0603/1608	4723-102A	
R617	RMG, 1/16W, 22 OHM, 5%, 0603	4723-220JR	
R618	RMG, 1/16W, 22 OHM, 5%, 0603	4723-220JR	
R621	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R622	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R623	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R624	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R625	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R626	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R627	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R628	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R629	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R630	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R631	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R632	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R633	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R634	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R635	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R636	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R637	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R638	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R639	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R640	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R641	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R642	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R643	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R644	RMG, 1/16W, 4.99K, 1%, 0603	4723-4991	
R646	RMG, 1/10W, 499R, 1%, 0805	4720-4990	
R647	RMG, 1/16W, 1.58K, 1%, 0603	4723-1581	
R648	RMG, 1/10W, 1.62K, 1%, 0603	4720-1621	
R649	RMG, 1/16W, 10K, 1%, 0603	4723-103AR	
R650	RMG, 1/16W, 150 OHM, 1%, 0603	4723-151AR	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604

Resistors (continued)

Reference Designator	Description	Vendor Part Number	Note
R651	RMG, 1/16W, 5.6K, 1%, 0603/1608	4723-562A	
R652	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R653	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R654	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R655	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C400	CC, 6.3V, 22uF, 10%, 1206, 3.2X1.6	150B-226KCF	
C401	CC, 6.3V, 22uF, 10%, 1206, 3.2X1.6	150B-226KCF	
C402	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C403	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C404	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C405	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C406	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C407	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C408	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C409	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C410	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C412	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C413	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C414	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C415	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C416	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C417	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C418	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C419	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C420	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C421	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C422	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C423	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C425	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C426	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C427	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C428	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C429	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C430	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C431	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C432	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C433	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C434	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C435	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C436	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C437	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C438	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C439	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C440	CE, 25V, 100uF, 20%, 6.3X7.7, SMD	157E-107MLO	
C441	CE, 25V, 100uF, 20%, 6.3X7.7, SMD	157E-107MLO	
C442	CC, 25V, 10uF, 10%, 1206, 3.2X1.6, X5R	150E-106KCF	
C443	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C444	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C445	CC, 50V, 0.01uF, 5%, 0603	150F-103JAC	
C446	CT, 16V, 10uF, 20%, SMD, 1.6X3.2	154D-106MCF	
C447	CT, 25V, 3.3uF, 20%, SM, 2.8X3.5	154E-335MEF	
C448	CT, 16V, 47uF, 10%, SMD, 85C, 6.0X3.2	154D-476KKF	
C449	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C450	CE, 25V, 220uF, 20%, SMD, 8.4X10, LOW, ESR	157E-227MPSR5	
C451	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C452	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C453	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C454	CE, 35V, 47uF, 20%, SMD, 6.6X5.7, LOW, ESR, LELON	157Q-476MMKR5	
C455	CE, 35V, 47uF, 20%, SMD, 6.6X5.7, LOW, ESR, LELON	157Q-476MMKR5	
C456	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C458	CT, 35V, 4.7uF, 20%, SMD, 3.5X2.8	154Q-475MFE	
C459	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272KAC	
C460	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C461	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C462	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C463	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C464	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C465	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C466	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C467	CC, 50V, 10pF, 5%, 0603, C0G	150F-100JAC	
C468	CT, 6.3V, 100uF, 20%, SMD, 3.5X2.8MM	154B-107MFE	
C469	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C470	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C471	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C472	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C473	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C474	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C475	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C476	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C477	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C478	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C479	CT, 10V, 10uF, 20%, SMD, 1.6X3.2	154C-106MCF	
C480	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C481	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C482	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C483	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C484	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C485	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C486	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C487	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C488	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C489	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C490	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C491	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C492	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C493	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C494	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C495	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C496	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C497	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604
Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C498	CE, 6.3V, 100uF, 20%, SMD, 06.3, L5.4	157B-107MLJ	
C499	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C500	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C501	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C502	CC, 50V, 22pF, 5%, 0603, C0G	150F-220JAC	
C503	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C504	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C505	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C506	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C507	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C508	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C509	CC, 50V, 5600pF, 10%, 0603, X7R	150F-562KAC	
C510	CC, 50V, 150pF, 5%, 0603, C0G	150F-151JAC	
C511	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C512	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C513	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C514	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C516	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C517	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C518	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C519	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C526	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C527	CT, 6.3V, 47uF, 10%, SMD, 85C, 1.6X3.2	154B-476KCF	
C528	CT, 6.3V, 47uF, 10%, SMD, 85C, 1.6X3.2	154B-476KCF	
C529	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C530	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C531	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C532	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C533	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C534	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C535	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C536	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C537	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C538	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C539	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C540	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C541	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C542	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C543	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C544	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C547	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C548	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C549	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C550	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C551	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C552	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C553	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C554	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C555	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C556	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C557	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C558	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604

Capacitors (continued)

Reference Designator	Description	Vendor Part Number	Note
C559	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C560	CE, 16V, 10uF, 20%, SM, 3X5.4, 85C-2000H	157D-106MEJ	
C561	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C562	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C563	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C564	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C565	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C567	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C570	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C571	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C572	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C573	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C574	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C575	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C576	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C577	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C578	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C580	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272KAC	
C581	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C582	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C584	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272KAC	
C585	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C586	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C587	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C588	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272KAC	
C590	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C592	CC, 50V, 2700pF, 10%, 0603, X7R	150F-272KAC	
C593	CC, 50V, 100pF, 5%, 0603, C0G	150F-101JAC	
C595	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C596	CC, 50V, 0.1uF, 10%, 0603, X7R	150F-104KAC	
C597	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C598	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C599	CC, 50V, 1uF, 10%, 0805	150F-105KBD	
C600	CC, 100V, 0.1uF, 10%, 0805, X7R	150H-104KBD	
C601	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C602	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C603	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C604	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	

Inductors

Reference Designator	Description	Vendor Part Number	Note
L400	INDUCTOR, 22UH, 20%, 8.1X8, B1000AS-220M=P3, SMD, TOKO	1803-0103	
L401	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L402	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L403	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L404	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L405	FERRITE, BEAD, CHIP, SEBW201209U121MT, 0805	1808-0872	
L406	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L407	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L408	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604

Inductors (continued)

Reference Designator	Description	Vendor Part Number	Note
L409	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L410	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L411	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L412	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L413	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L414	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L415	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	
L416	FERRITE, CHIP, 0603, BLM18AG102SN1D	1808-0878	

Diodes

Reference Designator	Description	Vendor Part Number	Note
D400	DIODE, SCHOTTKY, SK16, DO-214AA, 60V, 1A, SMD, PANJIT	480S-K160	
D401	DIODE, SCHOTTKY, SK16, DO-214AA, 60V, 1A, SMD, PANJIT	480S-K160	
D402	LED, SMD, 2.0X1.25X0.8, GN, SUPER, EVLITE	3700-7839	
D403	LED, SMD, 2.0X1.25X0.8, RD, SUPER, EVLITE	3700-7839	
D404	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D405	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D406	LED, SMD, 2.0X1.25X0.8, GN, SUPER, EVLITE	3700-7839	
D407	DIODE, BAV99, SOT23, PHILIPS	4840-8970	
D408	LED, SMD, 2.0X1.25X0.8, RD, SUPER, EVLITE	3700-7839	
D410	DIODE, 1SS355TE-17, ROHM	4840-1660	
D411	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D412	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D413	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D414	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D415	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D416	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D417	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	
D418	DOUBLE DIODE, BAT54S, SOT-23, SCHOTTKY, SMD	480T-54S0	

Diodes

Reference Designator	Description	Vendor Part Number	Note
Q409	TR, KTA1504Y	4851-504Y	
Q410	TR, PNP, 2SA2058, HFE:, 1252-3S1A, SM	4852-0580	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U400	IC, MCU, LPC11U35FBD48, LQFP48	3132-9481	
U401	IC, FLASH, MX25L4006EM1, 8-SOP	3132-8711	
U402	IC, DSP, ADAU1450W, LFCSP72	3132-9471	
U403	IC, REG, NCP1117ST33T3G, 3.3V, SOT-223, ONSEMI	3132-148111	
U404	IC, 16-CH, DEMULTIPLEXER, 74HC4067M96, SO24, TEXAS	3132-3021	
U406	IC, SETP-DOWN, CONVERTER, MP1591DN, SOIC8N, MPS	3132-4711	
U407	IC, ASIC, SN74LVC2G17, DCK	3132-7450	
U408	IC, REGULATOR, 7815, DPAK/TO-252, AUK	3132-816149	

ELECTRICAL PART LIST

DSP PCB Assembly, PS604

Integrated Circuits (continued)

Reference Designator	Description	Vendor Part Number	Note
U410	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U411	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U412	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U414	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U415	IC, EXTEND, 74HC4094, SO16	3132-4431	
U416	IC, REGULATOR, -15V, 7915, DPAK/TO-252, AUK	3132-817149	
U419	IC, CODEC, CS4272-CZZ, 28PIN, TSSOP, CIRRUS LOGIC	3132-4471	
U420	IC, CODEC, CS4272-CZZ, 28PIN, TSSOP, CIRRUS LOGIC	3132-4471	
U421	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U422	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U423	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U424	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U425	IC, NJM2068M-#ZZZB, DUAL, OP, AMP	3130-6890	
U426	IC, REGULATOR, TL432BIDBZR, SOT-23-3, TI	3132-769116	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
J400	WAFER, 10, PIN, P2	2102-100S	
J401	12P, ST.WAFER, P=2.5, COULOMB	2102-121S	
J403	CONN, FFC, 10P, P0.5, SMT, ST, F	2101-3375	
J404	CONN, FFC, 10P, P0.5, SMT, ST, F	2101-3375	
J405	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J406	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J407	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J408	CONN, FFC, 20P, P0.5, SMT, ST, F	2101-3376	
J409	CONNECTOR, HEADER, 7P, P2.54, ST, M, SINGLE, BODY	2101-3297	
X400	CRYSTAL, HC49, 12.288MHZ20PPM, 4.7X13, SMD	2300-3284	
X401	CRYSTAL, 12MHZ, -40, C, SMD	2300-2430	

ELECTRICAL PART LIST

Front Panel PCB Assembly, PS602

Resistors

Reference Designator	Description	Vendor Part Number	Note
R900	RMG, 1/16W, 47R, 1%, 0603	4723-470A	
R904	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R905	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R906	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R907	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R908	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R909	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R910	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R911	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R921	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R922	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C900	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C902	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C903	CC, 25V, 0.01uF, 10%, 0603, 0.8x1.6	150E-103KAC	
C904	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	

Diodes

Reference Designator	Description	Vendor Part Number	Note
D900	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D901	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D902	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D903	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D909	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U900	IC, EXTEND, 74HC4094, SO16	3132-4431	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
J900	WIRE-CONN, 10P, P2.0, #26, UL1007, L=415, RD/WH, F/M	7013-4640	
J901	BRACKET, GROUND, BRASS, T=0.8, TIN, PLATED	4132-6223	

ELECTRICAL PART LIST

Front Panel PCB Assembly, PS602P

Resistors

Reference Designator	Description	Vendor Part Number	Note
R900	RMG, 1/16W, 47R, 1%, 0603	4723-470A	
R902	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R903	RMG, 1/16W, 100 OHM, 1%, 0603	4723-101A	
R908	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R909	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R910	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R911	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R912	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R913	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R914	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R915	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R921	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R922	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R923	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R924	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R925	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	
R926	RMG, 1/16W, 0 OHM, 1%, 0603	4723-000A	

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C900	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C902	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C903	CC, 25V, 0.01uF, 10%, 0603, 0.8X1.6	150E-103KAC	
C904	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	
C905	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	
C906	CC, 50V, 0.01uF, 10%, 0603, X7R	150F-103KAC	

Diodes

Reference Designator	Description	Vendor Part Number	Note
D900	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D903	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D905	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D908	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D909	LED, SP, 3X5, RD/GN, SUPER, WHITE, DIFFUSED, EVERLIGHT	3700-2861	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U900	IC, EXTEND, 74HC4094, SO16	3132-4431	

ELECTRICAL PART LIST

Front Panel PCB Assembly, PS602P

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
J900	WIRE-CONN, 10P, P2.0, #26, UL1007, L=415, RD/WH, F/M	7013-4640	
J901	BRACKET, GROUND, BRASS, T=0.8, TIN, PLATED	4132-6223	
VR900	VR, ROTARY, 10KBX1, 10%, 21C, /, V, L=15	4751-2990	
VR901	VR, ROTARY, 10KBX1, 10%, 21C, /, V, L=15	4751-2990	

Front Panel PCB Assembly, PS604

Resistors

Reference Designator	Description	Vendor Part Number	Note
R900	RMG, 1/16W, 47 OHM, 1%, 0603	4723-470A	
R901	RMG, 1/16W, 47 OHM, 1%, 0603	4723-470A	
R904	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R905	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R906	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R907	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R908	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R909	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R910	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R911	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R912	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R913	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R914	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R915	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R916	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R917	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R918	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R919	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	
R921	RMG, 1/16W, 220 OHM, 1%, 0603/1608	4723-221A	
R922	RMG, 1/16W, 1.5K, 1%, 0603	4723-152AR	

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C900	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C901	CC, 50V, 0.1uF, 5%, 0603	150F-104JAC	
C902	CC, 50V, 1000pF, 5%, 0603, X7R	150F-102JAC	
C903	CC, 25V, 0.01uF, 10%, 0603, 0.8X1.6	150E-103KAC	
C904	CC, 16V, 1uF, 10%, 0603, 0.8X1.6	150D-105KAC	

ELECTRICAL PART LIST

Front Panel PCB Assembly, PS604

Diodes

Reference Designator	Description	Vendor Part Number	Note
D900	LED, SP, 3X5, RD/GN, SUPER WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D901	LED, SP, 3X5, RD/GN, SUPER WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D902	LED, SP, 3X5, RD/GN, SUPER WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D903	LED, SP, 3X5, RD/GN, SUPER WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D905	LED, SP, 3X5, RD/GN, SUPER WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D906	LED, SP, 3X5, RD/GN, SUPER WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D907	LED, SP, 3X5, RD/GN, SUPER WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D908	LED, SP, 3X5, RD/GN, SUPER WHITE, DIFFUSED, EVERLIGHT	3700-2861	
D909	LED, SP, 3X5, RD/GN, SUPER WHITE, DIFFUSED, EVERLIGHT	3700-2861	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U900	IC, EXTEND, 74HC4094, SO16	3132-4431	
U901	IC, EXTEND, 74HC4094, SO16	3132-4431	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
J900	WIRE-CONN, 10P, P2.0, #26, UL1007, 485, RD/WH, F/M, HST	7013-4910	
J901	BRACKET, GROUND, BRASS, T=0.8, TIN, PLATED	4132-6223	

ELECTRICAL PART LIST

Rear Output PCB Assembly, PS602

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C950	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C951	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C952	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C953	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C954	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C955	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C956	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C957	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	

Inductors

Reference Designator	Description	Vendor Part Number	Note
L950	CHOKE, COMMODE, 40uH, 10%, 10A, TC1305	1805-0450	
L951	CHOKE, COMMODE, 40uH, 10%, 10A, TC1305	1805-0450	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U710	IC, ESD PROTECTION, TPD2E001, SOT533	3132-7831	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
ENCODER702	ENCODER, ROTARY, 10P1T, DC50V, 0.1A, 10X10, COPAL	5200-509727	
ENCODER703	ENCODER, ROTARY, 10P1T, DC50V, 0.1A, 10X10, COPAL	5200-509727	
J711A	CONN, PIN, HEADER, 4P, P2.54, ST, M, L=15	2101-3295	
J714	USB-B, CONN, F, 4PIN, P2.5, 30V, 1.5A, 12X11, SIL	2113-3428	
J750	RJ45, F, 8P, P2.54, 12VAC, 1.5A, 17X16, SIL, ST	2113-3451	
J760A	CONN, PIN, HEADER, 4P, P2.54, ST, M, L=15	2101-3295	
J761A	CONN, PIN, HEADER, 4P, P2.54, ST, M, L=15	2101-3295	
J950	WIRE-CONN, 4P, P3.96, #18, UL1007, L=300, F/M, FERRITE	7013-5270	
J960	SOCKET, F, 2P, P5.08, 300V, 12A, GRN, ST	2113-3420	
J961	SOCKET, F, 2P, P5.08, 300V, 12A, GRN, ST	2113-3420	
SW702	SW, DIP, SPST, 24V, 25MA, P2.54, 6P	5200-5077	

ELECTRICAL PART LIST

Rear Output PCB Assembly, PS602P

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C950	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C951	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C952	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C953	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C954	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C955	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C956	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C957	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C958	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C959	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C960	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C961	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C962	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C963	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C964	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C965	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C966	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C967	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C968	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	

Inductors

Reference Designator	Description	Vendor Part Number	Note
L950	CHOKE, COMMON, MODE, 40U, 10%, 10A, TC1305, MI	1805-0450	
L951	CHOKE, COMMON, MODE, 40U, 10%, 10A, TC1305, MI	1805-0450	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U710	IC, ESD PROTECTION, TPD2E001, SOT533	3132-7831	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
ENCODER702	ENCODER, ROTARY, 10P1T, DC50V, 0.1A, 10X10, COPAL	5200-509727	
ENCODER703	ENCODER, ROTARY, 10P1T, DC50V, 0.1A, 10X10, COPAL	5200-509727	
J711A	CONNECTOR, PIN, HEADER, 4P, P2.54, ST, M, L=15	2101-3295	
J714	USB-B, CONN, F, 4PIN, P2.5, 30V, 1.5A, 12X11, SIL	2113-3428	
J951	WIRE-CONN, 4P, P3.96, #18, UL1007, L=300, F/M, FERRITE	7013-5270	
J964	SPEAKON, F, 4P, 250V, 30A, 31X26X24, BK, NL4MD-H-2, H	2113-3418	
J965	SPEAKON, F, 4P, 250V, 30A, 31X26X24, BK, NL4MD-H-2, H	2113-3418	
J966	CONNECTOR, 2P, P3.96, STRAIGHT, M	2101-2780	
J967	CONNECTOR, 2P, P3.96, STRAIGHT, M	2101-2780	
SW702	SW, DIP, SPST, 24V, 25MA, P2.54, 6P	5200-5077	

ELECTRICAL PART LIST

Rear Output PCB Assembly, PS604

Capacitors

Reference Designator	Description	Vendor Part Number	Note
C950	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C951	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C952	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C953	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C954	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C955	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C956	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C957	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C960	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C961	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C962	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C963	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C964	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C965	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C966	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	
C967	CC, 630V, 1000pF, 10%, 1206	150M-102KCF	

Inductors

Reference Designator	Description	Vendor Part Number	Note
L950	CHOKE, COMMODE, 40uF, 10%, 10A, TC1305, MI	1805-0450	
L951	CHOKE, COMMODE, 40uF, 10%, 10A, TC1305, MI	1805-0450	
L960	CHOKE, COMMODE, 40uF, 10%, 10A, TC1305, MI	1805-0450	
L961	CHOKE, COMMODE, 40uF, 10%, 10A, TC1305, MI	1805-0450	

Integrated Circuits

Reference Designator	Description	Vendor Part Number	Note
U710	IC, ESD PROTECTION, TPD2E001, SOT533	3132-7831	

Miscellaneous

Reference Designator	Description	Vendor Part Number	Note
ENCODER700	ENCODER, ROTARY, 10P1T, DC50V, 0.1A, 10X10, COPAL	5200-509727	
ENCODER701	ENCODER, ROTARY, 10P1T, DC50V, 0.1A, 10X10, COPAL	5200-509727	
ENCODER702	ENCODER, ROTARY, 10P1T, DC50V, 0.1A, 10X10, COPAL	5200-509727	
ENCODER703	ENCODER, ROTARY, 10P1T, DC50V, 0.1A, 10X10, COPAL	5200-509727	
J711A	CONN, PIN, HEADER, 4P, P2.54, ST, M, L=15	2101-3295	
J714	USB-B, CONN, F, 4PIN, P2.5, 30V, 1.5A, 12X11, SIL	2113-3428	
J750	RJ45, F, 8P, P2.54, 12VAC, 1.5A, 17X16, SIL, ST	2113-3451	
J760A	CONN, PIN, HEADER, 4P, P2.54, ST, M, L=15	2101-3295	
J761A	CONN, PIN, HEADER, 4P, P2.54, ST, M, L=15	2101-3295	
J952	WIRE-CONN, 4P, P3.96, #18, UL1007, L=300, F/M, FERRITE	7013-5270	
J953	WIRE-CONN, 4P, P3.96, #18, UL1007, L=210, F/M, FERRITE	7013-5271	
J966	DIN, SOCKET, F, 8P, P5.08, 300V, 12A, 41.16, GREEN	2113-3456	
SW702	SW, DIP, SPST, 24V, 25MA, P2.54, 8P	5200-5084	

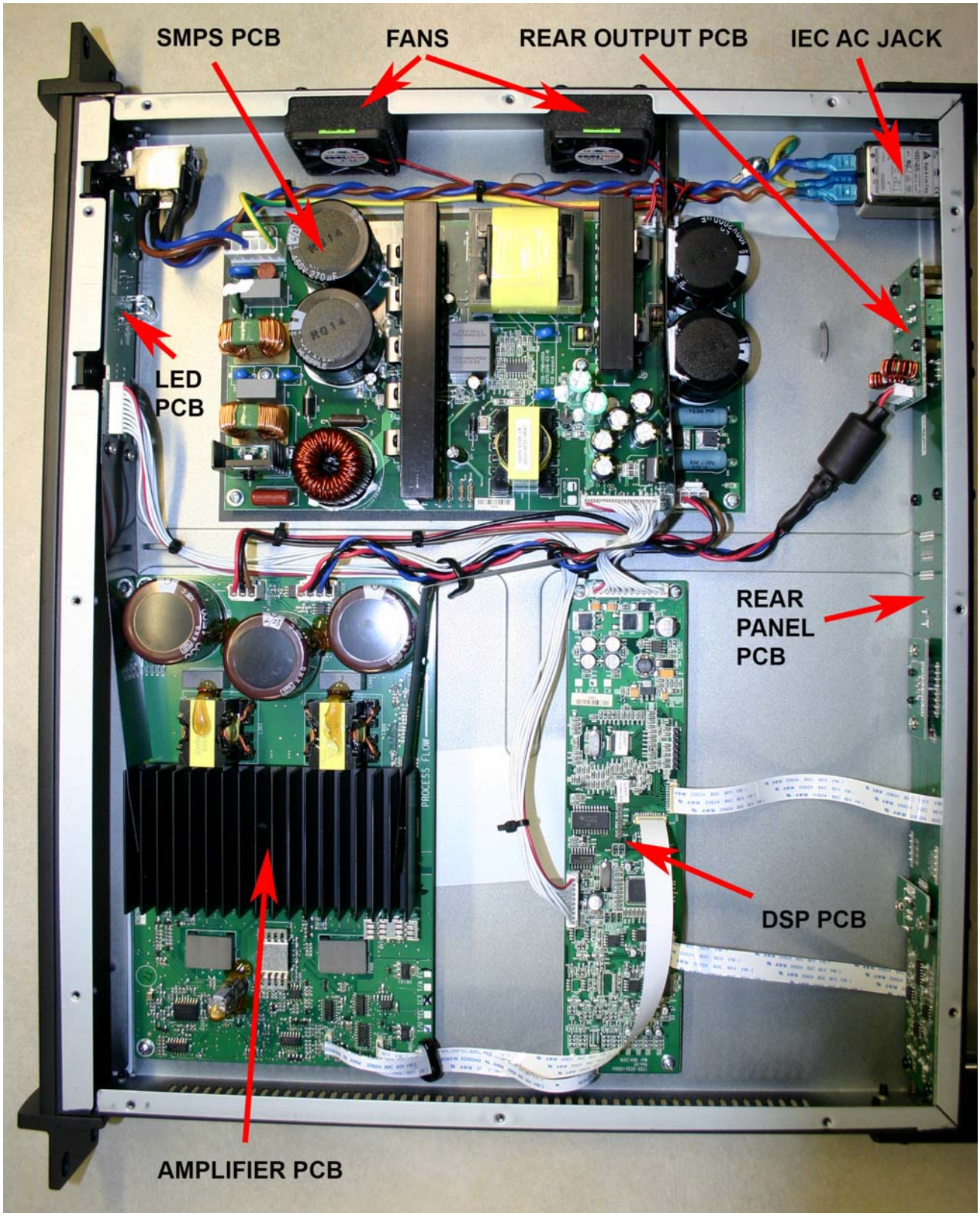


Figure 5. PS602 Amplifier, Top Cover Removed

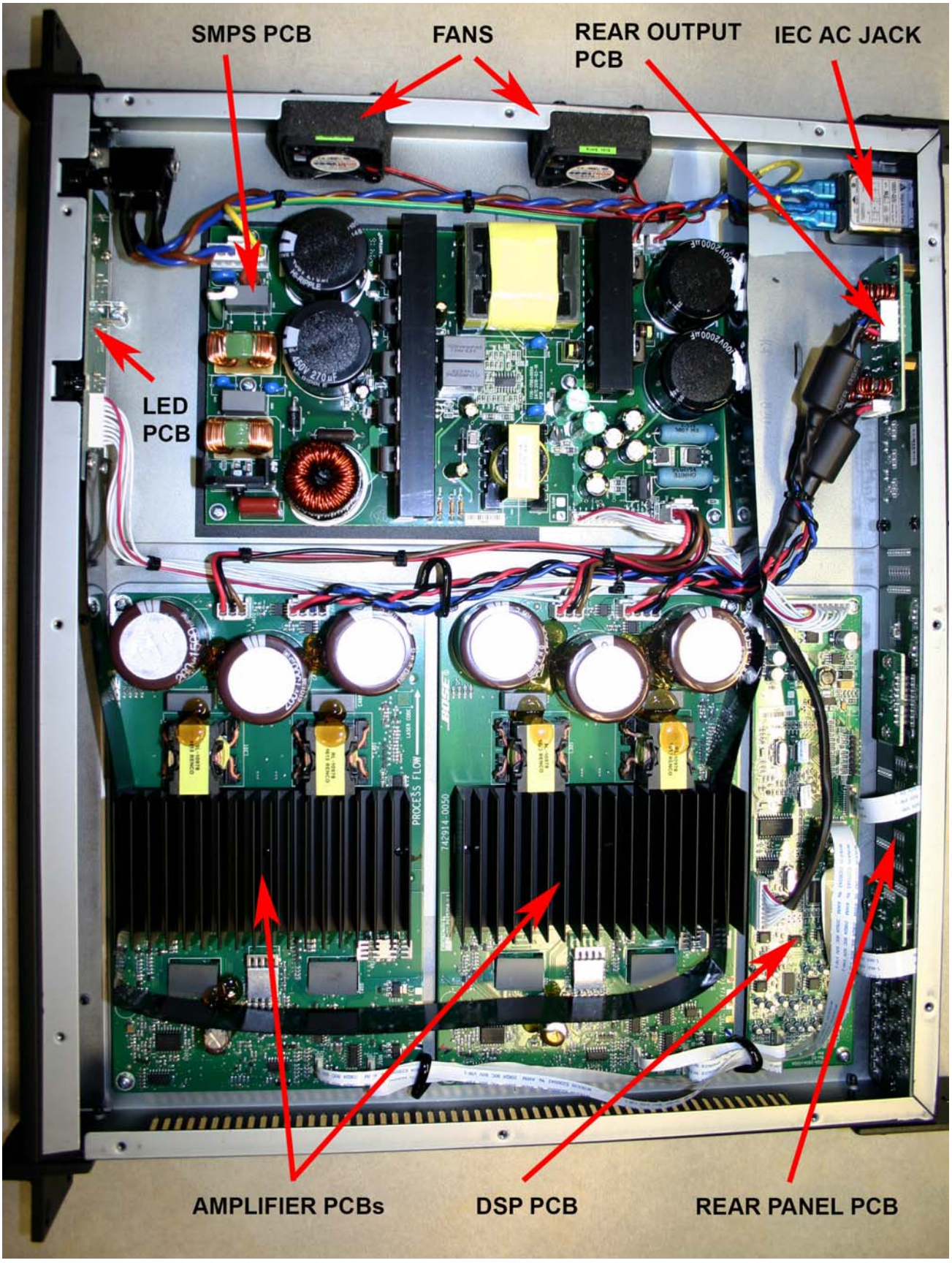


Figure 6. PS604 Amplifier, Top Cover Removed

DISASSEMBLY PROCEDURES

PS602 and PS604 Amplifiers

DANGER: SHOCK HAZARD

The PowerShare™ amplifiers have high voltage (up to 400 VDC) on the heatsink and much of the circuitry on the power supply PCB during operation. These PCBs can retain a dangerous charge for a significant period of time.

- **DO NOT** touch the power supply heatsink when the amplifier is operating.
- **DO NOT** use the power supply heatsink as a ground point for test equipment. Damage to your equipment could result.
- Allow at least five (5) minutes after operation before removing the cover or attempting to replace a PCB assembly.

Note: Refer to figures 5 and 6 for the following procedures.

1. Top Cover Removal

1.1 Remove the twelve screws that secure the top cover to the chassis. Lift off the top cover.

2. Rack Ear Removal

2.1 Remove the three screws that secure the rack ear to the chassis. Lift off the rack ear.

3. Rear Bracket Removal

3.1 Remove the three screws that secure the rear bracket to the chassis. Lift off the rear bracket.

4. Front Panel Removal

Re-assembly Note: Make a note of the wiring harness routings and tie wrap locations for the following procedure. You will need to re-install all of the tie wraps in the same locations in order to avoid noise pickup after repair.

4.1 Perform procedure 1.

4.2 Remove the three screws that secure the bottom of the front panel to the chassis.

4.3 Disconnect the AC wiring harness from the SMPS PCB assembly at J203.

4.4 Disconnect the AC wiring harness blue and brown wires from the IEC AC inlet.

4.5 Disconnect the AC wiring harness green/yellow ground wire from the chassis.

4.6 Unplug the ribbon cable to the front panel PCB assembly at J400 on the DSP PCB.

4.7 Disconnect the air baffle from the Amplifier PCB heatsink. This air baffle runs over to the LED PCB.
Re-assembly Note: Be sure to re-install the air baffle after repair of the unit. Secure the air baffle to the amplifier PCB heatsink using RTV compound, or similar. Failure to re-install the air baffle will result in chassis overheating.

4.8 Remove the one screw that secures the bottom of the LED PCB to the chassis. Lift off the front panel assembly.

5. AC Power Switch Removal

5.1 Perform procedure 1.

5.2 On the front panel, remove the AC power button by pulling it straight off.

5.3 On the back of the AC power switch, remove the two screws that secure it to the front panel. Lift out the AC power switch.

6. LED PCB Removal

6.1 Perform procedure 4.

6.2 Remove the four screws that secure the LED PCB to the front panel. Lift off the LED PCB.

DISASSEMBLY PROCEDURES

Re-assembly Note: Be sure to re-install the air baffle to avoid chassis overheating after repair.

7. Front Bezel Removal

7.1 Perform procedure 6.

7.2 Remove the AC Switch button from the front panel by pulling it straight off.

7.3 Remove the two screws that secure the AC power switch to the back of the front bezel. Lift it straight off.

7.4 Remove the four screws that secure the front bezel to the front panel. Lift off the plastic front bezel.

8. Fan Assembly Removal

8.1 Perform procedure 1.

8.2 Disconnect the fan wiring harness from the SMPS PCB at J204 or J205.

8.3 Remove the four screws that secure the fan assembly to the chassis. Lift the fan assembly out of the chassis.

9. SMPS PCB Removal

9.1 Perform procedure 1.

9.2 Gently remove the air baffle from the SMPS PCB where it is glued to the capacitors. **Re-assembly Note:** You will need to re-install the air baffle and secure it in place using RTV or similar. Failure to re-install the air baffle will result in chassis overheating.

9.3 Disconnect the AC wiring harness at J203. Disconnect the amplifier PCB wiring harness at J202. Disconnect the DSP wiring harness at J201. Disconnect the fan wiring harnesses at J204 and J205.

9.4 Remove the six screws that secure the SMPS PCB to the chassis. Lift out the SMPS PCB assembly.

10. Amplifier PCB Removal

10.1 On the bottom of the chassis, remove the two screws that secure the amplifier PCB's heatsink to the chassis.

10.2 Perform procedure 1 to remove the top cover.

10.3 Gently remove the two air baffles from the Amplifier PCB heatsink.
Re-assembly Note: You will need to re-install the air baffles and secure them in place using RTV or similar after repair. Failure to do so will result in chassis overheating.

10.4 Disconnect the wiring harnesses at J300 and J400. Disconnect the ribbon cables at J100 and J101.

10.5 Remove the four screws that secure the Amplifier PCB to the chassis. Lift out the Amplifier PCB assembly.
Re-assembly Note: Be sure to re-install the two screws that secure the amplifier PCB to the chassis. It is used to help dissipate heat.

11. DSP PCB Removal

11.1 Perform procedure 1.

11.2 Disconnect the wiring harnesses at J400 and J401.

11.3.1 PS602 - Disconnect the ribbon cables at J403, J405, J406 and J408.

11.3.2 PS604 - Disconnect the ribbon cables at J403, J404, J405, J406, J407 and J408.

11.4 Remove the four screws that secure the DSP PCB to the chassis. Lift out the DSP PCB.

DISASSEMBLY PROCEDURES

12. Rear Panel PCB Removal

12.1 Perform procedure 1.

12.2 Disconnect the wiring harness at J405 and J406 on the DSP PCB. Disconnect the wiring harness at J300 on the amplifier PCB.

12.3 On the rear of the chassis, remove the twelve screws that secure the rear panel PCB to the chassis. Lift out the rear panel PCB.

13. Rear Panel Output PCB Removal

13.1 Perform procedure 1.

13.2 Disconnect the wiring harness at J300 on the amplifier PCB(s).

13.3 Remove the four screws that secure the rear panel output PCB to the rear panel PCB and the chassis. Lift off the rear panel output PCB.

14. IEC AC Input Jack Removal

14.1 Perform procedure 1.

14.2 Make a note of the wiring configuration, and disconnect the AC wiring harness Faston connectors from the three lugs on the IEC connector.

14.3 On the rear of the chassis, remove the two screws that secure the IEC connector to the chassis. Lift out the IEC connector.

Figure 7. PS602P Amplifier, Top Cover Removed

DISASSEMBLY PROCEDURES

PS602P Amplifier

DANGER: SHOCK HAZARD

The PowerShare™ amplifiers have high voltage (up to 400 VDC) on the heatsink and much of the circuitry on the power supply PCB during operation. These PCBs can retain a dangerous charge for a significant period of time.

- **DO NOT** touch the power supply heatsink when the amplifier is operating.
- **DO NOT** use the power supply heatsink as a ground point for test equipment. Damage to your equipment could result.
- Allow at least five (5) minutes after operation before removing the cover or attempting to replace a PCB assembly.

Note: Refer to Figure 7 for the following procedures.

1. Top Cover Removal

1.1 Remove the twelve screws that secure the top cover to the chassis. Lift off the top cover.

2. Rack Ear Removal

2.1 Remove the three screws that secure the rack ear to the chassis. Lift off the rack ear.

3. Rear Bracket Removal

3.1 Remove the three screws that secure the rear bracket to the chassis. Lift off the rear bracket.

4. Front Panel Removal

Re-assembly Note: Make a note of the wiring harness routings and tie wrap locations for the following procedure. You will need to re-install all of the tie wraps in the same locations in order to avoid noise pickup after repair.

4.1 Perform procedure 1.

4.2 Remove the three screws that secure the bottom of the front panel to the chassis.

4.3 Disconnect the AC wiring harness from the SMPS PCB assembly at J203.

4.4 Disconnect the AC wiring harness blue and brown wires from the IEC AC inlet.

4.5 Disconnect the AC wiring harness green/yellow ground wire from the chassis.

4.6 Unplug the ribbon cable to the LED PCB assembly at J400 on the DSP PCB.

4.7 Disconnect the air baffle from the Amplifier PCB heatsink. This air baffle runs over to the LED PCB.
Re-assembly Note: Be sure to re-install the air baffle after repair of the unit. Secure the air baffle to the amplifier PCB heatsink using RTV compound, or similar. Failure to re-install the air baffle will result in chassis overheating.

4.8 Remove the one screw that secures the bottom of the LED PCB to the chassis. Lift off the front panel assembly.

5. AC Power Switch Removal

5.1 Perform procedure 1.

5.2 On the front panel, remove the AC power button by pulling it straight off.

5.3 On the back of the AC power switch, remove the two screws that secure it to the front panel. Lift out the AC power switch.

6. LED PCB Removal

6.1 Perform procedure 4.

6.2 Remove the two front panel output level control knobs by pulling them straight off.

6.3 Remove the two nuts and washers that secure the LED PCB to the front bezel.

DISASSEMBLY PROCEDURES

6.4 Unplug the LED PCB wiring harness from J400 on the DSP PCB.

6.5 Remove the four screws that secure the LED PCB to the front panel. Lift off the LED PCB.
Re-assembly Note: Be sure to re-install the air baffle to avoid chassis overheating after repair.

7. Front Bezel Removal

7.1 Perform procedure 6.

7.2 Remove the fours screws that secure the front bezel to the front panel. Lift off the front bezel.

8. Fan Assembly Removal

8.1 Perform procedure 1.

8.2 Disconnect the fan wiring harness from the SMPS PCB at J204 or J205.

8.3 Remove the four screws that secure the fan assembly to the chassis. Lift the fan assembly out of the chassis.

9. SMPS PCB Removal

9.1 Perform procedure 1.

9.2 Gently remove the air baffle from the SMPS PCB where it is glued to the capacitors.
Re-assembly Note: You will need to re-install the air baffle and secure it in place using RTV or similar. Failure to re-install the air baffle will result in chassis overheating.

9.3 Disconnect the AC wiring harness at J203. Disconnect the amplifier PCB wiring harness at J202. Disconnect the DSP wiring harness at J201. Disconnect the fan wiring harnesses at J204 and J205.

9.4 Remove the six screws that secure the SMPS PCB to the chassis. Lift out the SMPS PCB assembly.

10. Amplifier PCB Removal

10.1 On the underside of the chassis, remove the two screws that secure the amplifier PCB's heatsink to the chassis.

10.2 Perform procedure 1 to remove the top cover.

10.3 Gently remove the two air baffles from the Amplifier PCB heatsink.
Re-assembly Note: You will need to re-install the air baffles and secure them in place using RTV or similar after repair. Failure to do so will result in chassis overheating.

10.4 Disconnect the wiring harnesses at J300 and J400. Disconnect the ribbon cables at J100 and J101.

10.5 Remove the four screws that secure the Amplifier PCB to the chassis. Lift out the Amplifier PCB assembly.
Re-assembly Note: Be sure to re-install the two screws that secure the amplifier PCB to the chassis. It is used to help dissipate heat.

11. DSP PCB Removal

11.1 Perform procedure 1.

11.2 Disconnect the wiring harnesses at J400 and J401.

11.3 Disconnect the ribbon cables at J403, J405, J406 and J408.

11.4 Remove the four screws that secure the DSP PCB to the chassis. Lift out the DSP PCB.

12. Rear Panel Input PCB Removal

12.1 Perform procedure 1.

12.2 Disconnect the ribbon cable that connects to J406 on the DSP PCB.

DISASSEMBLY PROCEDURES

12.3 On the rear of the chassis, remove the five screws that secure the rear input PCB to the chassis. Lift out the rear input PCB.

13. Rear PCB Removal

13.1 Perform procedure 1.

13.2 Disconnect the ribbon cable that connects to J405 on the DSP PCB.

13.3 On the rear of the chassis, remove the four screws that secure the rear PCB to the chassis. Lift out the rear PCB.

14. Rear Panel Output PCB Removal

14.1 Perform procedure 1.

14.2 Disconnect the two wiring harnesses that connect to the rear panel output jacks.

14.3 Disconnect the wiring harness at J300 on the amplifier PCB.

14.4 Inside the chassis, remove the two screws that secure the PCB to the bottom of the chassis.

14.5 Remove the four screws that secure the rear panel output PCB NL4 jacks to the rear panel PCB. Lift off the rear panel output PCB.
Re-assembly Note: Make sure the insulating sheet is properly installed under the PCB before re-installation to avoid potential shorts to the chassis.

15. IEC AC Input Jack Removal

15.1 Perform procedure 1.

15.2 Make a note of the wiring configuration, and disconnect the AC wiring harness Faston connectors from the three lugs on the IEC connector.

15.3 On the rear of the chassis, remove the two screws that secure the IEC connector to the chassis. Lift out the IEC connector.

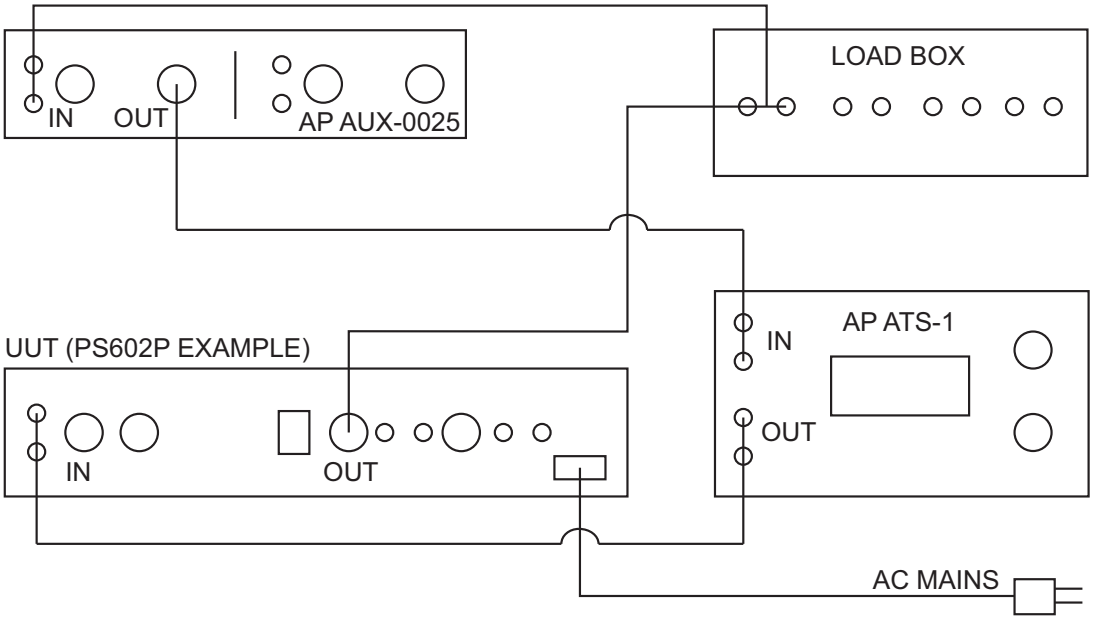
LED Functionality

- Power LED (Bi-Colored LED):
  GREEN: System functioning properly
  FLASHING GREEN: System in standby
  AMBER: Thermal fault
  RED: Power supply fault (all LED solid red if power supply fault)

- Signal LED (Bi-Colored LED):
  GREEN: Signal present in normal level
  AMBER: Signal present at a higher level, approaching input clipping
  RED: Input signal clip
  RED: Power supply fault (all LED solid red if power supply fault)

- Limit LED (Bi-Colored LED):
  AMBER: Output is limiting
  RED: AMP fault or power supply fault (all LED solid red if power supply fault)
  FLASHING RED: Muted

Test Connections Diagram



1. Connect Audio Precision ATS-1 signal generator output to the UUT (unit under test) input as specified in the test procedures.
2. Connect UUT output to the resistive test load. Use loads specified in the test procedures.
3. Connect load to the AP AUX-0025 digital filter input.
4. Connect the AP AUX-0025 digital filter output to the AP ATS-1 input.
5. Connect the UUT to AC mains.

TEST PROCEDURES

PS602 Amplifier

Required Items:

- Audio Signal Generator
- dB Meter
- Audio Precision AUX-0025 digital filter
- CC1 Zone Controller - see page 12 for P/N
- 2 - 4 Ohm, 300W load resistors
- 2 - 16 Ohm, 300W load resistors
- 2 - 32 Ohm, 300W load resistors

Test Setup:

- Connect the amplifier to the loads and test equipment as shown in Test Connections.
- Set the PS602 rear panel controls as listed below for following tests.
- Rotary EQ switch to position 1 FLAT
- Output Attenuation to ZERO (fully CW)
- DIP switch setting: all switches to LEFT

Note: The AP AUX-0025 filter must be used for all measurements.

1. Gain Test - Low-Z Mode

1.1 Set the Output 1 and 2 DIP switches to Low-Z mode (right).

1.2 Connect 4 Ohm, 300 W loads to the channel 1 and 2 outputs.

1.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

1.4 Measure the output level at the channel 1 and 2 output jacks. It should be +25 dBV +/- 1 dBV.

2. Gain Test - Hi-Z 70V Mode

2.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left).

2.2 Connect 16 Ohm, 300 W loads to the channel 1 and 2 outputs.

2.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

2.4 Measure the output level at the channel 1 and 2 output jacks. It should be +28 dBV +/- 1 dBV.

3. Gain Test - Hi-Z 100V Mode

3.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

3.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

3.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

3.4 Measure the output level at the channel 1 and 2 output jacks. It should be +31 dBV +/- 1 dBV.

4. Gain Test - Euro Block Inputs

4.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 12 dBu (right).

4.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

4.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 EURO BLOCK input jacks.

4.4 Measure the output level at the channel 1 and 2 output jacks. It should be +11 dBV +/- 1 dBV.

4.5 Set the SENSITIVITY switch to the 4 dBu position.

4.6 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 EURO BLOCK input jacks.

TEST PROCEDURES

4.7 Measure the output level at the channel 1 and 2 output jacks. It should be +19 dBV +/- 1 dBV.

5. THD+N Test

5.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 4 dBu (left).

5.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

5.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 EURO BLOCK input jacks.

5.4 Measure the output level at the channel 1 and 2 output jacks. Adjust the input level to attain an output of 100W from both channels.

5.5 Measure the THD+N level at the channel 1 and 2 outputs. It should be < 0.1%.

6. Frequency Response and Noise Test

6.1 Set the Output 1 and 2 DIP switches to Low-Z mode (right). Set the GLOBAL OUT DIP switch to 70V (left). Set the SENSITIVITY DIP switch to 4 dBu (left).

6.2 Connect 4 Ohm, 300 W loads to the channel 1 and 2 outputs.

6.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 EURO BLOCK input jacks.

6.4 Measure the output level at the channel 1 and 2 output jacks. Decrease the input level to attain an output of 1W from both channels. Reference a dB meter to the output level.

6.5 Change the input frequency to 20 Hz. Measure the output level. It should be 0 dBr +/- 1.0 dB.

6.6 Change the input frequency to 20 kHz. Measure the output level. It should be 0 dBr +/- 1.0 dB.

6.7 Turn off the signal generator.

6.8 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

6.9 Measure the output noise level using a 20 kHz filter and A-weighting. It should be $\leq$ -57 dBA for the Euro Block inputs and $\leq$ -62 dBA for the RCA inputs.

7. Signal LED Test

7.1 Apply a -50.2 dBV +/- 2 dBV, 1 kHz sine wave to the channel 1 and 2 EURO BLOCK connectors. Verify that the SIGNAL LED lights GREEN.

7.2 Change the input level to +6.8 dBV +/- 2 dBV. Verify that the SIGNAL LED lights AMBER.

7.3 Change the input level to +9.8 dBV +/- 2 dBV. Verify that the SIGNAL LED lights RED.

8. Limit LED Test

8.1 Apply a +2.0 dBV +/- 2 dBV, 1 kHz sine wave to the channel 1 and 2 EURO BLOCK connectors. Verify that the LIMIT LED lights AMBER.

9. Crosstalk Test

9.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 4 dBu (left). All other DIP switches should be set to the left.

9.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

9.3 Using a 20 Hz to 20 kHz filter, apply a 1 kHz, -19.3 dBV input to the channel 1 RCA input jack.

9.4 Adjust the input signal level to get a 100 W output at the channel 1 output.

TEST PROCEDURES

9.5 With the above input applied to the channel 1 RCA input, measure the output level at the channel 2 output. It should be ≥ -70 dB.

9.6 Change the input frequency to 20 kHz. Measure the output level at the channel 2 output. It should be ≥ -55 dB.

9.7 Repeat steps 9.3 to 9.6 for the channel 2 RCA input jack and also the channel 1 and 2 EURO BLOCK inputs.

10. Output Gain Control Range Test

10.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 4 dBu (left).

10.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

10.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 Euro Block input jacks.

10.4 Measure the output level. It shoudl be 19dBV +/- 1 dBV. Change the dB meter scale to dBr. Reference a dB meter to the output level.

10.5 With the above signal applied, rotate the channel 1 OUTPUT ATTEN control from zero to - infinity. Verify that the output level decreases from 0 dBr to - infinity.

11. Remote Control Test

11.1 Using a CAT-5 cable, connect a Bose® CC-1 ControlCenter Zone Controller to the ControlCenter RJ-45 jack on the rear panel. Refer to the table on page 12 for part numbers for the CC-1 controller.

11.2 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

11.3 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

11.4 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

11.5 Measure the output level at the channel 1 and 2 output jacks. It should be +31 dBV +/- 1 dBV.

11.6 With the above signal applied, rotate the CC-1 volume control from maximum volume (fully CW) to minimum (fully CCW). Verify that the output level decreases from + 31 dBV to 0 dBV.

12. Mute Control Test

12.1 Connect the black 2-pin mute connector to a SPST toggle switch. Plug the mute connector into the MUTE jack on the amplifier rear panel.

12.2 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

12.3 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

12.4 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

12.5 Measure the output level at the channel 1 and 2 output jacks. It should be +31 dBV +/- 1 dBV.

12.6 With the above signal applied, close the SPST toggle switch. Verify that the output level immediately decreases from +31 dBV to 0 dBV. Open the switch and verify that the output level returns to +31 dBV.

13. Auto Standby Test

13.1 Set the AUTO STANDBY DIP switch on the rear panel to the ON position. Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

13.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

TEST PROCEDURES

13.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

13.4 Measure the output level at the channel 1 and 2 output jacks. It should be +31 dBV +/- 1 dBV.

13.5 Reduce the input signal level to < -55.2 dBV. Verify that after a 20 minute period that the amplifier switches to standby mode.

13.6 Increase the input signal level above -55.2 dBV. Verify that the amplifier comes out of standby mode after about 2 seconds.

PROCEED TO THE HI-POT AND GROUND BOND TESTS ON PAGE 114 ---------->

TEST PROCEDURES

PS602P Amplifier

Required Items:
- Audio Signal Generator
- dB Meter
- Audio Precision AUX-0025 digital filter
- 2 - 4 Ohm, 300W load resistors
- 2 - 16 Ohm, 300W load resistors
- 2 - 32 Ohm, 300W load resistors

Test Setup:
- Connect the amplifier to the loads and test equipment as shown in Test Connections.
- Set the PS602P rear panel controls as listed below for following tests.

Set the front and rear panel controls as listed below for following tests.
- Front Panel Output 1 and 2 Level Controls set to Max (fully CW)
- Rotary EQ switch to position 1 FLAT
- Output Attenuation to MAX (fully CW)
- DIP switch setting: all switches to LEFT

Note: The AP AUX-0025 filter must be used for all measurements.

1. Gain Test - Low-Z Mode

1.1 Set the Output 1 and 2 DIP switches to Low-Z mode (right).

1.2 Connect 4 Ohm, 300 W loads to the channel 1 and 2 outputs.

1.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

1.4 Measure the output level at the channel 1 and 2 output jacks. It should be +25 dBV +/- 1 dBV.

2. Gain Test - Hi-Z 70V Mode

2.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left).

2.2 Connect 16 Ohm, 300 W loads to the channel 1 and 2 outputs.

2.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

2.4 Measure the output level at the channel 1 and 2 output jacks. It should be +28 dBV +/- 1 dBV.

3. Gain Test - Hi-Z 100V Mode

3.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

3.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

3.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

3.4 Measure the output level at the channel 1 and 2 output jacks. It should be +31 dBV +/- 1 dBV.

4. Gain Test - XLR Inputs

4.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 12 dBu (right).

4.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

4.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 XLR input jacks.

4.4 Measure the output level at the channel 1 and 2 output jacks. It should be +11 dBV +/- 1 dBV.

4.5 Set the SENSITIVITY switch to 4 dBu.

TEST PROCEDURES

4.6 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 XLR input jacks.

4.7 Measure the output level at the channel 1 and 2 output jacks. It should be +19 dBV +/- 1 dBV.

5. THD+N Test

5.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 4 dBu (left).

5.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

5.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 XLR input jacks.

5.4 Measure the output level at the channel 1 and 2 output jacks. Adjust the input level to attain an output of 300W from both channels.

5.5 Measure the THD+N level at the channel 1 and 2 outputs. It should be < 0.1%.

6. Frequency Response and Noise Test

6.1 Set the Output 1 and 2 DIP switches to Low-Z mode (right). Set the GLOBAL OUT DIP switch to 70V (left). Set the SENSITIVITY DIP switch to 4 dBu (left).

6.2 Connect 4 Ohm, 300 W loads to the channel 1 and 2 outputs.

6.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 XLR input jacks.

6.4 Measure the output level at the channel 1 and 2 output jacks. Decrease the input level to attain an output of 1W from both channels. Reference a dB meter to the output level.

6.5 Change the input frequency to 20 Hz. Measure the output level. It should be 0 dBr +/- 1 dB.

6.6 Change the input frequency to 20 kHz. Measure the output level. It should be 0 dBr +/- 1 dB.

6.7 Turn off the signal generator.

6.8 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

6.9 Measure the output noise level using a 20 kHz filter and A-weighting. It should be $\leq$ -57 dBA for all inputs.

7. Signal LED Test

7.1 Apply a -50.2 dBV +/- 2 dBV, 1 kHz sine wave to the channel 1 and 2 XLR connectors. Verify that the SIGNAL LED lights GREEN.

7.2 Change the input level to +6.8 dBV +/- 2 dBV. Verify that the SIGNAL LED lights AMBER.

7.3 Change the input level to +9.8 dBV +/- 2 dBV. Verify that the SIGNAL LED lights RED.

8. Limit LED Test

8.1 Apply a + 2.0 dBV +/- 2 dBV, 1 kHz sine wave to the channel 1 and 2 XLR connectors. Verify that the LIMIT LED lights AMBER.

9. Crosstalk Test

9.1 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 4 dBu (left). All other DIP switches should be set to the left.

9.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

9.3 Using a 20 Hz to 20 kHz filter, apply a 1 kHz, -19.3 dBV input to the channel 1 RCA input jack.

9.4 Adjust the input signal level to get a 100 W output at the channel 1 output.

TEST PROCEDURES

9.5 With the above input applied to the channel 1 RCA input, measure the output level at the channel 2 output. It should be ≥ -70 dB.

9.6 Change the input frequency to 20 kHz. Measure the output level at the channel 2 output. It should be ≥ -55 dB.

9.7 Repeat steps 9.3 to 9.6 for the channel 2 RCA input jack and also the channel 1 and 2 XLR nputs.

10. Level Control Attenuation Test

Note: The PS602P Amplifier uses two 21 detent potentiometers, located on the front panel. This test checks attenuation at three detent positions as defined below.

10.1 Set the Output 1 and 2 DIP switches to Low-Z mode (right). Set the GLOBAL OUT DIP switch to 70V (left). Set the Output 1 and 2 Level Controls on the front panel to 0 dB (fully CW).

10.2 Connect 4 Ohm, 300 W loads to the channel 1 and 2 outputs.

10.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 XLR input jacks.

10.4 Change the dB meter scale to dBr. Reference the dB meter to the output level.

10.5 With the above signal applied, rotate the channel 1 and 2 OUTPUT ATTEN controls CCW from zero toward - Infinity. Verify that the output level decreases from 0 dBr in accordance with the below table.

Position	Attenuation	Limit
5	-5.0 dBr	+/- 1.0 dB
10	-10 dBr	+/- 1.0 dB
16	-16 dBr	+/- 1.0 dB

11. Mute Control Test

11.1 Connect the black 2-pin mute connector to a SPST toggle switch. Plug the mute connector into the MUTE jack on the amplifier rear panel.

11.2 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

11.3 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

11.4 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

11.5 Measure the output level at the channel 1 and 2 output jacks. It should be +31 dBV +/- 1 dBV.

11.6 With the above signal applied, close the SPST toggle switch. Verify that the output level immediately decreases from +31 dBV to 0 dBV. Open the switch and verify that the output level returns to +31 dBV.

12. Auto Standby Test

12.1 Set the AUTO STANDBY DIP switch on the rear panel to the ON position. Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

12.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

12.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

12.4 Measure the output level at the channel 1 and 2 output jacks. It should be +31 dBV +/- 1 dBV.

12.5 Reduce the input signal level to < -55.2 dBV. Verify that after a 20 minute period that the amplifier switches to standby mode.

12.6 Increase the input signal level above -55.2 dBV. Verify that the amplifier comes out of standby mode after about 2 seconds.

PROCEED TO THE HI-POT AND GROUND BOND TESTS ON PAGE 114 ---------->

TEST PROCEDURES

PS604 Amplifier

Required Items:

- Audio Signal Generator
- dB Meter
- Audio Precision AUX-0025 digital filter
- CC1 Zone Controller - see page 12 for P/N
- 4 - 4 Ohm, 300W load resistors
- 4 - 16 Ohm, 300W load resistors
- 4 - 32 Ohm, 300W load resistors

Test Setup:

Set the PS604 rear panel controls as listed below for following tests.

- Rotary EQ switch to position 1 FLAT
- Output Attenuation to MAX (fully CW)
- DIP switch setting: all switches to LEFT

Note: The AP AUX-0025 filter must be used for all measurements.

1. Gain Test - Low-Z Mode

1.1 Set the Output 1 - 4 DIP switches to Low-Z mode (right).

1.2 Connect 4 Ohm, 300 W loads to the channel 1 - 4 outputs.

1.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 - 4 inputs.

1.4 Measure the output level at the channel 1 - 4 outputs. It should be +13 dBV +/- 1 dBV.

2. Gain Test - Hi-Z 70V Mode

2.1 Set the Output 1 - 4 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 70V (left).

2.2 Connect 16 Ohm, 300 W loads to the channel 1 - 4 outputs.

2.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 - 4 RCA inputs.

2.4 Measure the output level at the channel 1 - 4 outputs. It should be +16 dBV +/- 1 dBV.

4. Gain Test - Input Sensitivity, 100V and 70V Settings

4.1 Set the Output 1 - 4 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 12 dBu (right).

4.2 Connect 32 Ohm, 300 W loads to the channel 1 - 4 outputs.

4.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 - 4 inputs.

4.4 Measure the output level at the channel 1 - 4 outputs. It should be +11 dBV +/- 1 dBV.

4.5 Set the SENSITIVITY switch to the 4 dBu position.

4.6 Apply a 1 kHz, -19.3 dBV input to the channel 1 - 4 inputs.

4.7 Measure the output level at the channel 1 - 4 outputs. It should be +19 dBV +/- 1 dBV.

5. THD+N Test

5.1 Set the Output 1 - 4 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 4 dBu (left).

5.2 Connect 32 Ohm, 300 W loads to the channel 1 - 4 outputs.

5.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 - 4 inputs.

TEST PROCEDURES

5.4 Measure the output level at the channel 1 - 4 outputs. Adjust the input level to attain an output of 100W from both channels.

5.5 Measure the THD+N level at the channel 1 - 4 outputs. It should be < 0.1%.

6. Frequency Response and Noise Test

6.1 Set the Output 1 and 2 DIP switches to Low-Z mode (right). Set the GLOBAL OUT DIP switch to 70V (left). Set the SENSITIVITY DIP switch to 4 dBu (left).

6.2 Connect 4 Ohm, 300 W loads to the channel 1 and 2 outputs.

6.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 - 4 inputs.

6.4 Measure the output level at the channel 1 - 4 outputs. Decrease the input level to attain an output of 1W from all channels. Change the dB meter scale to dBr. Reference a dB meter to the output level.

6.5 Change the input frequency to 20 Hz. Measure the output level. It should be 0 dBr +/- 1.0 dB.

6.6 Change the input frequency to 20 kHz. Measure the output level. It should be 0 dBr +/- 1.0 dB.

6.7 Turn off the signal generator.

6.8 Set the Output 1 - 4 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

6.9 Measure the output noise level using a 20 kHz filter and A-weighting. It should be $\leq$ -57 dBV for all inputs.

7. Signal LED Test

7.1 Apply a -50.2 dBV +/- 2 dBV, 1 kHz sine wave to the channel 1 - 4 EURO BLOCK connectors. Verify that the SIGNAL LED lights GREEN.

7.2 Change the input level to +6.8 dBV +/- 2 dBV. Verify that the SIGNAL LED lights AMBER.

7.3 Change the input level to +9.8 dBV +/- 2 dBV. Verify that the SIGNAL LED lights RED.

8. Limit LED Test

8.1 Apply a + 2.0 dBV +/- 2 dBV, 1 kHz sine wave to the channel 1 - 4 EURO BLOCK connectors. Verify that the LIMIT LED lights AMBER.

9. Crosstalk Test

9.1 Set the Output 1 - 4 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 4 dBu (left). All other DIP switches should be set to the left.

9.2 Connect 32 Ohm, 300 W loads to the channel 1 - 4 outputs.

9.3 Using a 20 Hz to 20 kHz filter, apply a 1 kHz, -19.3 dBV input to the channel 1 input jack.

9.4 Adjust the input signal level to get a 100 W output at the channel 1 output.

9.5 With the above input applied to the channel 1 input, measure the output level at the channel 2, 3 and 4 outputs. It should be $\geq$ -70 dB.

9.6 Change the input frequency to 20 kHz. Measure the output level at the channel 2, 3 and 4 outputs. It should be $\geq$ -55 dB.

9.7 Repeat steps 9.3 to 9.6 for the channel 2, 3 and 4 inputs.

10. Output Gain Control Range Test

10.1 Set the Output 1 - 4 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 4 dBu (left).

TEST PROCEDURES

10.2 Connect 32 Ohm, 300 W loads to the channel 1 - 4 outputs.

10.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 - 4 input jacks.

10.4 Measure the output level at the channel 1 - 4 output jacks. It should be +19 dBV +/- 1 dBV.

10.5 Decrease the signal input level to attain a 0 dBV output from channels 1 - 4.

10.6 With the above signal applied, rotate the channel 1 - 4 OUTPUT ATTEN controls from zero to - infinity. Verify that the output level decreases from 0 dBV to infinity.

11. Input Priority Test

11.1 Using a CAT-5 cable, connect a Bose® CC-1 ControlCenter Zone Controller to the ControlCenter RJ-45 jack on the rear panel. Refer to the table on page 12 for part numbers for the CC-1 controller.

11.2 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

11.3 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

11.4 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

11.5 Measure the output level at the channel 1 and 2 output jacks. It should be +31 dBV +/- 1 dBV.

11.6 With the above signal applied, rotate the CC-1 volume control from maximum volume (fully CW) to minimum (fully CCW). Verify that the output level decreases from + 31 dBV to 0 dBV.

12. Mute Control Test

12.1 Connect the black 2-pin mute connector to a SPST toggle switch. Plug the mute connector into the MUTE jack on the amplifier rear panel.

12.2 Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right).

12.3 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

12.4 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

12.5 Measure the output level at the channel 1 and 2 output jacks. It should be +19 dBV +/- 1 dBV.

12.6 With the above signal applied, close the SPST toggle switch. Verify that the output level immediately decreases from +19 dBV to 0 dBV. Open the switch and verify that the output level returns to +19 dBV.

13. Auto Standby Test

13.1 Set the AUTO STANDBY DIP switch on the rear panel to the ON position. Set the Output 1 and 2 DIP switches to Hi-Z mode (left). Set the GLOBAL OUT DIP switch to 100V (right). Set the SENSITIVITY DIP switch to 4 dBu (left).

13.2 Connect 32 Ohm, 300 W loads to the channel 1 and 2 outputs.

13.3 Apply a 1 kHz, -19.3 dBV input to the channel 1 and 2 RCA input jacks.

13.4 Measure the output level at the channel 1 and 2 output jacks. It should be +19 dBV +/- 1 dBV.

13.5 Reduce the input signal level to < -55.2 dBV. Verify that after a 20 minute period that the amplifier switches to standby mode.

13.6 Increase the input signal level above -55.2 dBV. Verify that the amplifier comes out of standby mode after about 2 seconds.

PROCEED TO THE HI-POT AND GROUND BOND TESTS ON PAGE 114 ---------->

TEST PROCEDURES

Hi-Pot Test

THIS IS A MANDATORY TEST

Note: If an the unit under test requires disassembly as part of the repair, it **MUST** be Hi-Pot tested before being returned to the customer to ensure that there is no potential shock hazard. This test requires a Hi-Pot tester with a ground bond attachment to perform this test.

Connections:
The Hi-Pot tester connects to the unit under test (UUT) by means of a wiring harness. The AC line cord of the UUT plugs into the Hi-Pot tester AC adapter box. The return line connects to all output connectors.

Hi-Pot Tester Settings:

AC Input to Earthed Parts
All units - 1500 VAC, rise time = 1 sec., dwell = 3 seconds, current limit = 5.0 mA
• Connect the AC mains cord to unit under test. Plug the other end of the AC cord into the Hi-Pot tester AC adapter box. The AC adapter box connects to the High Voltage (HV) connection on the Hi-Pot tester.
• Connect the Hi-Pot tester RETURN line to a ground point on the chassis.
• With the tester set to the above parameters, perform the test. If the unit fails, troubleshoot it and repair the problem. If it passes this portion of the test, proceed to the below test.

Ground Bond Test

Note: This test only needs to be performed if the chassis ground wire from the AC IEC connector to the inside of the chassis of the unit has been removed or disturbed as part of a repair. If it has not, this test does not need to be performed. This test measures current handling capability between the ground blade on the AC inlet or mains plug and the earth bond point on the chassis of the unit.

Ground Bond Tester Settings:

10A, < 12VAC open circuit, < 0.1 Ohms from AC earth terminal on IEC connector in chassis, to earth bond point on rear of chassis. Test duration = 4 seconds.
• Connect the AC mains cord to the back of the amplifier under test. Plug the other end of the AC cord into the ground bond test box.
• With the tester set to the above parameters, perform the test. If the unit fails, remove the top cover and repair the problem. Once the unit is repaired, repeat the Hi-Pot and the ground bond tests to ensure the unit is safe to return to the customer.

PowerShare™ Editor Software

Access advanced digital loudspeaker processing features using the free web-downloadable PowerShare Editor software. The PowerShare Editor software accesses all of the FreeSpace®, Panaray®, and RoomMatch® Utility loudspeaker EQs, as well as room EQ, standard mixing, band pass filtering, limiters, delay, mute polarity inversion, and output polarity inversion.

The fixed architecture enables the following features:

- **9-Band Parametric EQ (PEQ)**
  Adjust room EQ, per channel. The default setting is Flat.
- **Standard Mixer**
  The 2x2 or 4x4 standard mixer allows for routing of any input(s) to any output(s). The default setting routes each input to its output (1:1). For example, INPUT 1 is routed to OUTPUT 1, INPUT 2 is routed to OUTPUT 2, etc.
- **Band Pass**
  Set high-pass (HPF) and low-pass filters (LPF), per channel. The default setting is Flat. In Hi-Z output mode, a 50 Hz HPF is automatically added to the Hi-Z selected outputs. The loudspeaker EQ is applied after the 50 Hz HPF.
- **9-Band Speaker EQ**
  Choose any FreeSpace, Panaray, or RoomMatch Utility Bose loudspeaker EQ, with associated limiter settings, per channel. The default setting is Flat.
- **Vpeak and Vrms Limiters**
  Both values are loaded automatically when a Bose loudspeaker is selected in the Loudspeaker EQ block. The values are always adjustable. In 70V mode, a 100 Vpeak limiter is automatically loaded. In 100V mode, a 141 Vpeak limiter is automatically loaded. These are maximum values that can be lowered if necessary using the PowerShare Editor software.
- **Delay**
  Apply up to 50 ms of delay on Channels 1 & 2 for each amplifier model, in increments of 0.1 ms. The default setting is 0 ms delay.
- **Output**
  Each output can be set to inverted output polarity. The default state is non-inverted.
- **Mute Polarity**
  The default state is Normally Open (NO), where a short across the mute connector will mute all outputs. The mute polarity can be inverted to Normally Closed (NC), where an open across the mute connector will mute all outputs.

Setup files can be saved and loaded into other similar PowerShare amplifiers for quick duplification of amplifier settings.

Amplifier DIP Switch Settings

The position of the CONFIG DIP switch, located on the rear panel of the amplifier, determines whether the amplifier settings are configured using the PowerShare Editor software or the rear panel controls.

- If the CONFIG DIP switch is set to SOFTWARE, configure the amplifier using PowerShare Editor software. You can disconnect the amplifier from the PC when setup is complete and the amplifier will retain the settings.

  If you use the PowerShare Editor software to configure the amplifier, and then change the DIP switch setting to REAR, the amplifier loads the EQ dial settings instead, and the settings configured using the software return to their default states.

- If the CONFIG DIP switch is set to REAR, configure the amplifer using the controls on the rear panel of the amplifier.

  If you configure the amplifier using the rear panel and then change the DIP switch setting to SOFTWARE, the amplifier settings do not change until the PowerShare Editor software is connected to the amplifier and new settings are pushed to the amplifier from the software.

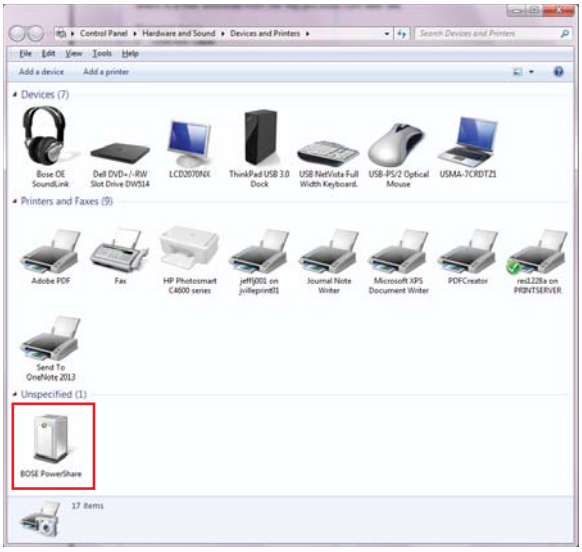
Firmware Update Procedure

The PowerShare™ amplifier firmware is updated by using the PowerShare software application, which is a free download from the http://pro.bose.com web site.

Required Items:
- USB A/B cable
- PowerShare Editor software application
- Windows® PC with a USB port

Procedure:
Download and install the PowerShare software application from the pro.bose.com web site.

The PowerShare Editor software communicates with the amplifier using a standard USB connection as a standard USB-controlled human interface device (HID).

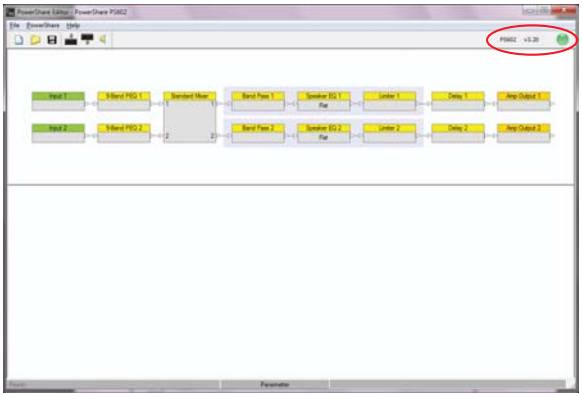


To establish a connection between the software and the amplifier:

- Connect the amplifier to the PC using a USB cable.

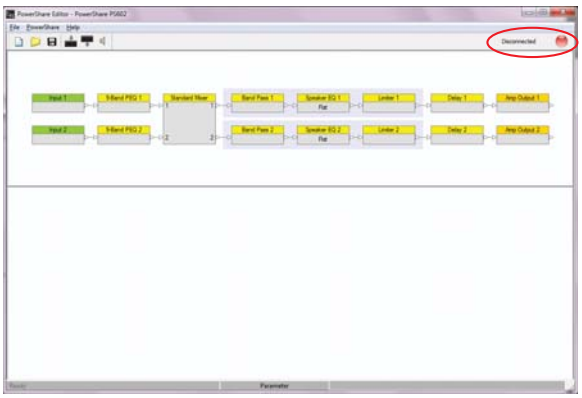
- Turn on the amplifier.

- Confirm that the PC recognizes the amplifier by locating the device in Control Panel > Hardware and Sound > Devices and Printers. Refer to Figure at right.



- Open the PowerShare software program. The program should recognize the amplifier and connect automatically. The green button at the top right of the box indicates that the amplifier is connected.

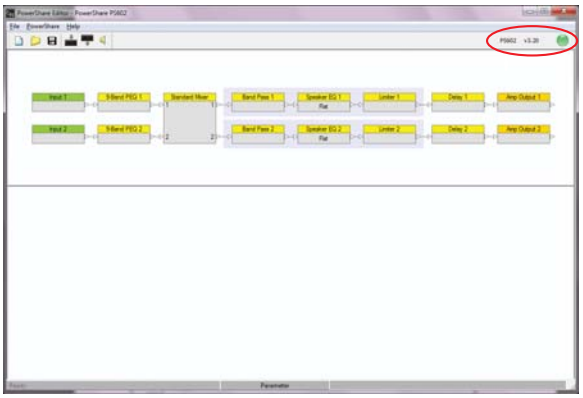
When connected, to the left of the green button is shown the installed firmware version. In this case it is version 3.20.



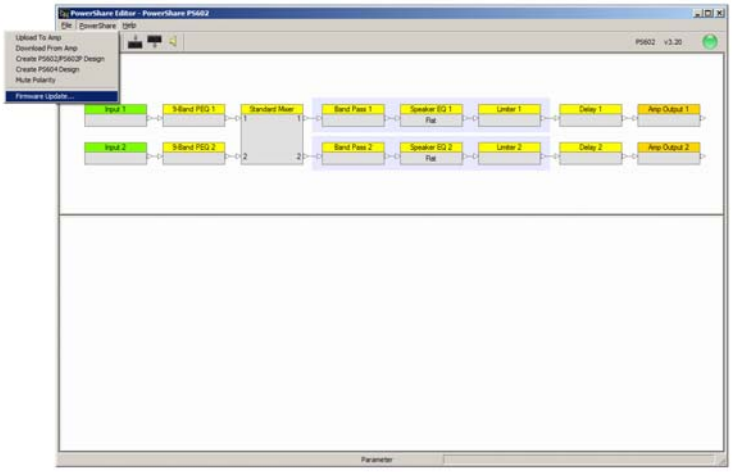
If the amplifier is not connected, the button would be red. Refer to the figure at right.

Firmware Update Procedure

If the firmware revision shown at the top right of the PowerShare™ application window is not the latest revision it will need to be updated.

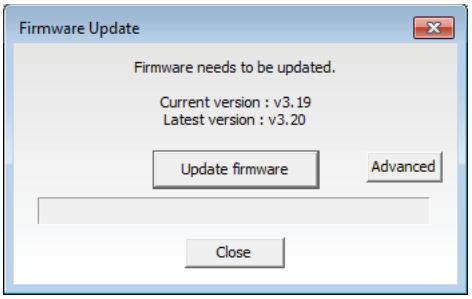


- Update the firmware by clicking on PowerShare > Firmware Update in the main dialog box as shown at right.



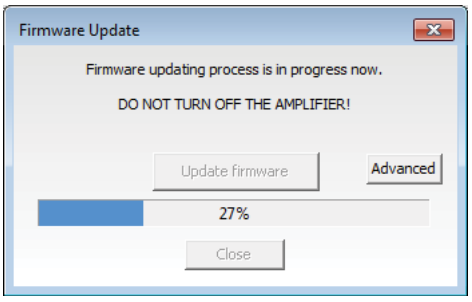
The Firmware Update dialog box will open, and will indicate that the firmware is not the latest revision and needs to be updated.

- Click on the Update Firmware button and the update process will begin.



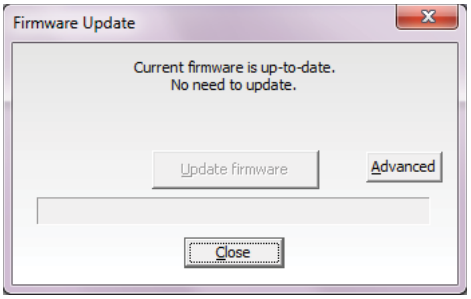
As the update progresses, the progress bar will fill in. **CAUTION!** DO NOT remove power to the amplifier or disconnect the USB cable during the update process. Doing so will cause the unit to fail, requiring repair.

Once the update process is completed, the dialog box will state that the process is complete.



If the firmware revision is up to date, the Firmware Update dialog box will indicate it, as shown at right.

End of process.



Service Manual Revision History

Date	Revision Level	Description of Change	Change Driven By	Pages Affected
8/16	00	Document released at revision 00.	Service manual release	All

SPECIFICATIONS AND FEATURES SUBJECT TO CHANGE WITHOUT NOTICE

Better sound through research®

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http://serviceops.bose.com