


Bose® ControlSpace® EX-1280C Conferencing Processor



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SAFETY INFORMATION

Parts that have special safety characteristics are identified by the  symbol on schematics or by special notes on the parts list. Use only replacement parts that have critical characteristics recommended by the manufacturer.

CAUTION: The Bose® ControlSpace® EX-1280C Processor contains no user-serviceable parts. To prevent warranty infractions, refer servicing to warranty service stations or factory service.

PROPRIETARY INFORMATION

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF BOSE CORPORATION WHICH IS BEING FURNISHED ONLY FOR THE PURPOSE OF SERVICING THE IDENTIFIED BOSE PRODUCT BY AN AUTHORIZED BOSE SERVICE CENTER, AND SHALL NOT BE REPRODUCED OR USED FOR ANY OTHER PURPOSE.

WARRANTY

The Bose® ControlSpace® EX-1280C Processor is covered by a limited 5-year transferable warranty.

Product Versions and Accessories

DSP Chassis			
Description	Material Master	Product Code	Region
CONTROLSPACE ESP-1280 PROCESSOR US BLK	772234-1110	075257	US – 120V
CONTROLSPACE ESP-1280 PROCESSOR EU BLK	772234-2110	075255	EU – 230V
CONTROLSPACE ESP-1280 PROCESSOR JP BLK	772234-3110	075225	JP – 100V
CONTROLSPACE ESP-1280 PROCESSOR UK BLK	772234-4110	075224	UK – 240V
CONTROLSPACE ESP-1280 PROCESSOR AU BLK	772234-5110	075222	AU – 240V

Dante Endpoint Accessories		
Description	Material Master	Product Code
CONTROLSPACE EX-UH USB/HEADSET DANTE ENDPOINT	771784-0110	075256
CONTROLSPACE EX-4ML MIC/GPIO DANTE ENDPOINT	771783-0110	075253
CONTROLSPACE EX-8ML MIC/GPIO DANTE ENDPOINT	772045-0110	075254
CONTROLSPACE EX ENDPOINT MICROPHONE EXTENSION CABLE	790081-0010	-
CONTROLSPACE EX ENDPOINT MOUNTING BRACKET	790080-0110	-



PRODUCT DESCRIPTION

Overview

The Bose® ControlSpace® EX EX-1280C conferencing processor conferencing solution simplifies audio conferencing design and installation for large meeting areas by offering direct connection of Dante® microphones, simple and elegant analog-to-Dante microphone converters, interfaces for all types of audio conferencing, and time-saving algorithms.

Bose ControlSpace Designer software, available as a free download from pro.Bose.com, enables PC setup, control, and monitoring of the Bose ControlSpace EX-1280C conferencing processor. A separate document, the ControlSpace Designer Software Guide, can be downloaded as a PDF from pro.Bose.com or found inside the ControlSpace Designer software help system. This document includes basic installation information. The information furnished in this guide is intended to help you install and set up the product, but does not include all details of design, production, or variations of the equipment. Nor does it cover every possible situation that may arise during installation, operation, or maintenance.

Product Features

- **Open-architecture signal processing** - Provides the flexibility needed for most conferencing applications
- **Auto Echo Cancellation (AEC)** - Twelve (12) routable acoustic echo cancellers with adaptable noise cancellation, non-linear processing, and comfort noise to enhance the clarity and intelligibility of the meeting; multiple references to support multiple rooms and multiple zones.

Included Accessories

Each Bose ControlSpace EX-1280C conferencing processor carton contains:

- Bose ControlSpace EX-1280C conferencing processor
- Seven (7) green Phoenix Contact® connectors (3.81 mm, 6-pin)
- Five (5) orange Phoenix Contact® connectors (3.81 mm, 6-pin)
- IEC power cord (region-specific)
- Installation guide

Available Accessories

Three ControlSpace Dante® Endpoints are available for use with the EX-1280C:

- EX-UH (USB/headset),
- EX-4ML (4-channel mic/GPIO).
- EX-8ML (8-channel mic/GPIO)

Note: The Dante Endpoint accessories are not repairable. Replacement only.

Compatible Controllers

The EX-1280C is compatible with Bose ControlSpace CC-64 and CC-16 zone controllers.

Front and Rear Panels

Front Panel

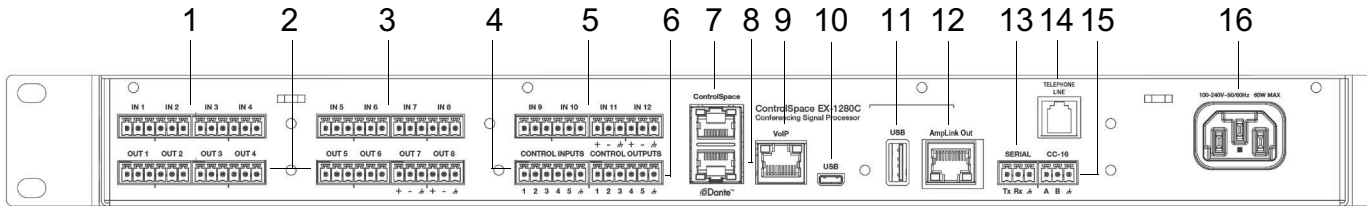


- 1 - Power Indicator: LED illuminates when unit is powered on
- 2 - OLED Display: Displays metering and network information
- 3 - Rotary/Press Knob: Use to navigate menus for IP setup

PRODUCT DESCRIPTION

Front and Rear Panels (continued)

Rear Panel



- 1,3,5 - Analog Audio Input: Twelve (12) balanced audio inputs (3.81 mm Phoenix Contact, 6-pin), routable to automatic echo cancellation (AEC) using ControlSpace® Designer software.
- 2 - Analog Audio Output: Eight (8) balanced audio outputs (3.81 mm Phoenix Contact, 6-pin)
- 4 - General-Purpose Control Inputs: Five (5) general-purpose input controls (3.81 mm Phoenix, 6-pin)
- 6 - General-Purpose Control Outputs: Five (5) general-purpose output controls (3.81 mm Phoenix, 6-pin)
- 7 - ControlSpace Network Port: Connect to Bose® ControlSpace zone controllers and other third-party controllers, using an RJ-45 connection.
- 8 - Dante Network Port: Dante digital audio (64 x 64 channel, 1 Gbps), using an RJ-45 connection.
- 9 - Digital/VoIP Telephone Connection: SIP 2.0-compliant, using an RJ-9 connection
- 10 - Micro-B USB Port: Connect to PC for soft codecs with stereo input and output
- 11 - USB Port: Not currently supported; available for future updates to ControlSpace EX-1280C
- 12 - Bose AmpLink Out: 8-channel uncompressed, zero-latency digital audio output
- 13 - Serial Port: 3-wire RS-232C (DTW) serial interface connection
- 14 - Telephone Line: Connect to analog telephone connections worldwide, using an RJ-11 connection.
- 15 - CC-16 Port: Connect to a Bose CC-16 zone controller or other control interfaces that use a RS-485 connection, such as the Bose ControlCenter CC-1, CC-2, or CC-3 zone controller.
- 16 - AC Mains Power Cord Connection: IEC 60320-C14 inlet.

Hardware Installation

To set up the ControlSpace EX-1280C for the first time:

1. Download and install ControlSpace Designer software to a PC that is on the same local subnet that the EX-1280C will be on.
2. Unpack the EX-1280C processor
3. Mount processor in rack
4. Make analog audio connections
5. Make remote control connections
6. Make GPIO connections
7. Establish network connection
8. Connect telephone line
9. Connect Micro USB
10. Connect power cord
11. Configure processor using ControlSpace Designer software

Note: Due to ventilation requirements, Bose does not recommend placing the product in a confined space such as in a wall cavity or in an enclosed cabinet.

Compatible Controllers

The EX-1280C is compatible with Bose ControlSpace Remote and third-party controllers such as Crestron® and AMX®, as well as Bose ControlSpace CC-16 and CC-64.

SPECIFICATIONS

INTEGRATED DSP	
Signal Processor/CPU	32-bit fixed/floating-point DSP 456 MHz/ARM Cortex-A8 600MHz
Maximum Calculation	3.6 GIPS / 2.7 GFLOPS
Delay	43 s
Audio Latency	860 μ s (analog in to analog out)
A/D and D/A Converters	24-bit
Sample Rate	48 kHz

ANALOG AUDIO INPUTS	
Input Channels	12 balanced, mic/line level
Connectors, Input	3.81 mm Phoenix Contact®, 6-pin
Input Impedance	12 k Ω @ 1 kHz (with or without phantom power active)
Maximum Input Level	+24 dBu
Equivalent Input Noise	-118 dB at 48 dB gain setting
Phantom Power	+48 VDC, 10 mA, selectable per input
Gain Settings	0/14/24/32/48/54/64 dB

ANALOG AUDIO OUTPUTS	
Output Channels	8 balanced, line level
Connectors	3.81 mm Phoenix Contact®, 6-pin
Output Impedance	200 Ω
Maximum Output Level	+24 dBu

AUDIO PERFORMANCE SPECIFICATIONS	
Frequency Response	20 Hz – 20 kHz (+0.3 dB/-0.1 dB)
THD+N	0.002 % at +4 dBu (A-weighted/20 Hz – 20 kHz)
Channel Separation (Crosstalk)	< -105 dB at +4 dBu input and output level, 1 kHz
Dynamic Range	> 115 dB, A-weighted 20 Hz – 20 kHz, analog input to analog output

AUDIO OVER IP	
Dante™	RJ-45; 64 x 64 channels, primary/secondary (ControlSpace ports)

DIGITAL AUDIO OUTPUTS	
AmpLink Output	RJ-45; 8 ultra-low latency < 100 μ s, 48 kHz

COMMUNICATION PORTS	
USB Device	Micro-B type, stereo in/out, class-compliant
VoIP	RJ-45; 2 lines, 2 instances per line
PSTN	RJ-11; 1 line, Tx/Rx
USB Host	Type A. For future use

CONTROL INPUTS	
Inputs (Control)	5 analog or digital inputs, 2 k Ω internal pull-up resistor to 5 V, 3.81 mm Phoenix Contact®, 6-pin
Analog Input Voltage Range	0 V to 3.3 V (maximum 5 V)
Digital Input Voltage Range	0 V to 3.3 V (threshold voltage = 1.6 V)

CONTROL OUTPUTS	
Outputs (Control)	5 digital outputs, 3.81 mm Phoenix Contact®, 6-pin
Output Voltage	High: 8 V (open circuit), 2.5 V @ 10 mA Low: < 1 V @ 100 mA, push-pull

INDICATORS AND CONTROLS	
Display	256 x 64 OLED with rotary encoder
LED Status Indicators	Power/Status

SPECIFICATIONS (CONT.)

ELECTRICAL SPECIFICATIONS	
Mains Voltage	85 VAC-264 VAC 50/60 Hz
AC Power Consumption	< 15 VA typical at 122 °F (50 °C) ambient
Mains Connector	IEC 60320-C14 (Inlet)
Power Dissipation	12 W (41 BTU, 10 kcal)

PHYSICAL	
Dimensions	44 mm x 483 mm x 215 mm (1.7" H x 19" W x 8.5" D)
Net Weight	2.6 kg (5.8 lb)
Operating Temperature	32 °F - 122 °F (0 °C - 50 °C)
Cooling System	Passive, side venting


GENERAL	
PC Configuration Software	ControlSpace® Designer™ software
Network Control	Ethernet (RJ-45), 1Gb
RS-232/485 ports	RS-232 (DTE) & Bose CC-16 (RS-485 master); 3.81 mm Phoenix Contact®, 3-pin
Audio Channel Capacity	166 channels (20 analog, 8 AmpLink out, 64x64 Dante, 4 VoIP, 4 USB, 2 PSTN)

Electrostatic Discharge Sensitive (ESDS) Device Handling

This unit contains ESDS devices. We recommend the following precautions when repairing, replacing or transporting ESDS devices:

- Perform work at an electrically grounded work station.
- Wear wrist straps that connect to the station or heel straps that connect to conductive floor mats.
- Avoid touching the leads or contacts of ESDS devices or PC boards even if properly grounded. Handle boards by the edges only.
- Transport or store ESDS devices in ESD protective bags, bins, or totes. Do not insert unprotected devices into materials such as plastic, polystyrene foam, clear plastic bags, bubble wrap or plastic trays.

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 the Bose® recommended part may result in a safety hazard and may void the regulatory certification.

PACKAGING PART LIST

ControlSpace® EX 1280C (see Figure 1)

Item Number	Description	Part Number	Qty.	Note
1	CARTON, DSP, SVC	785543-001S	1	
2	CONNECTOR KIT, DSP	787147-001S	1	
3	PEARL FORM, ENDCAP, SVC	785550-001S	2	
4	POLY BAG, L420XW550MM	785546-0010	1	
5	POLY BAG, L320xW217x0.5mm (INSTALL GUIDE)	-	1	
6	GUIDE, INSTALL, DSP	788755-0010	1	
7	WAFER SEAL, 80MM	-	1	
-	AC LINE CORD, IEC, C13, US/CAN	350745-0010	1	3 ⚠
	AC LINE CORD, IEC, C13, EURO	350747-0010	1	
	AC LINE CORD, IEC, C13, JAPAN	350749-0020	1	
	AC LINE CORD, IEC, C13, UK	350748-0010	1	
	AC LINE CORD, IEC, C13, AUS	350746-0010	1	

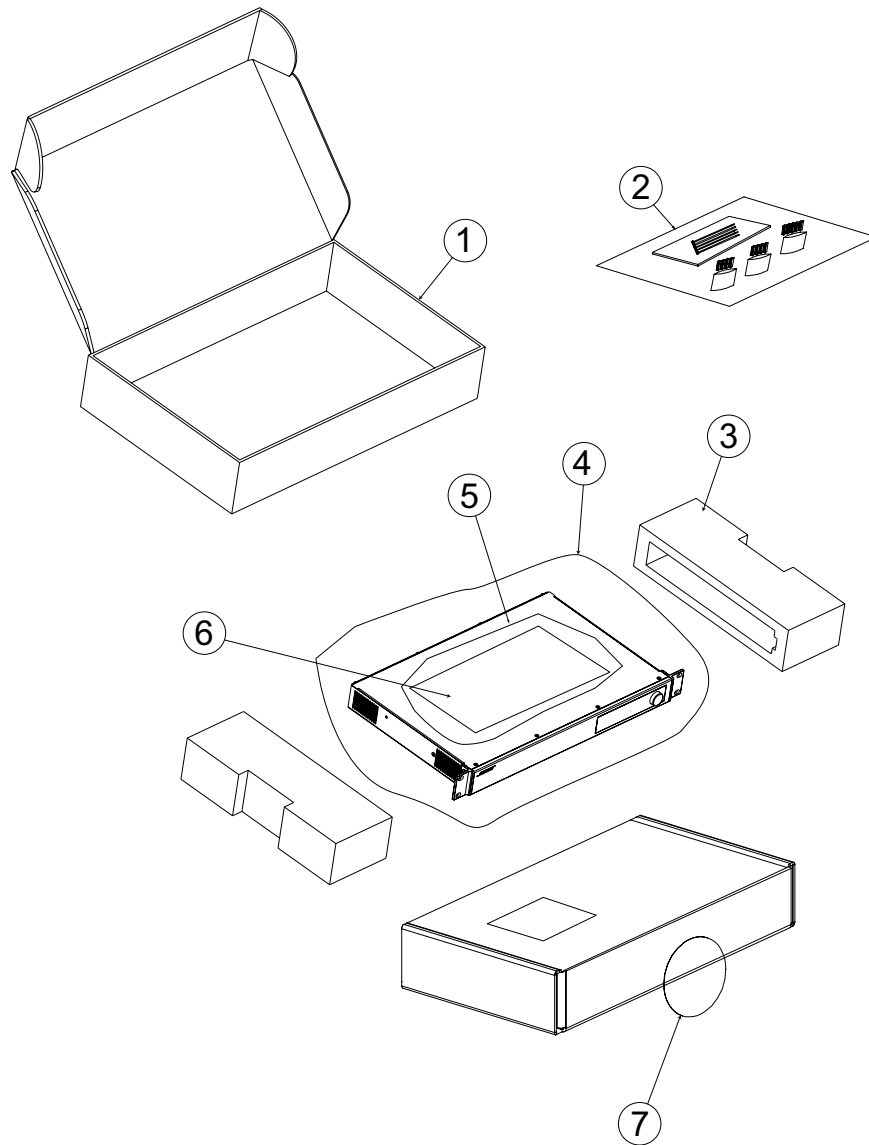






Figure 1. Packaging Exploded View

MAIN PART LIST

ControlSpace® EX 1280C (see Figure 2)

Item Number	Description	Part Number	Qty.	Note
1	HARNESS, PS-MAIN, 22AWG, 10 COND	370437-0010	1	3 
2	CABLE, GROUND INLET, GRN/YEL (AC GROUND)	530498-001S	1	3 
3	COVER, DSP, BLK, SVC (TOP COVER)	777061-011S	1	
4	SCREW, MSB, M3x6MM, BLACK	-	11	
5	SCREW, SI, MSF, M3x5.5MM	370493-0110	4	
6	SCREW, MSB, M3x6MM, W/WASHER	-	22	
7	PCB ASSY, OUTPUT, 8 CHANNEL	772393-001S	1	1
8	SCREW, M4x9MM, CARBON STEEL	-	4	
9	BRACKET, RACK MOUNT, DSP, BLK, SVC	772790-011S	2	
10	PCB ASSY, DISPLAY	773012-001S	1	1
11	OLED, DISPLAY ASSY (W/O DISPLAY PCB & KNOB)	785548-001S	1	
12	COVER, DISPLAY, DSP, SVC (DISPLAY LENS)	772794-011S	1	
13	SCREW, HEX SET, M3 (USED FOR KNOB)	-	1	
14	KNOB, DSP, BLK, SVC	772791-011S	1	
15	PANEL, FRONT, DSP, BLK, SVC	771614-011S	1	
16	FAN, 5VDC, 40mm	772567-001S	2	3 
17	NUT, LOCKING, HEX, M4, W/NYLON	-	2	
18	CABLE FFC, 24 POS, 80MM (MAIN PCB TO DISPLAY)	785538-002S	1	
19	CABLE FFC, 40 POS, 32MM (MAIN TO INPUT PCB)	788169-001S	1	
20	CABLE FFC, 40 POS, 58MM (MAIN TO OUTPUT PCB)	788169-002S	1	
21	CABLE FFC, 24 POS, 30MM (MAIN TO PSTN PCB)	785538-001S	1	
22	STANDOFF, 14MM	370491-0010	9	
23	PCB ASSY, MAIN DSP	772390-001S	1	1
24	INSULATOR SHEET, SVC	777066-001S	1	3 
25	PCB ASSY, POWER SUPPLY, DSP	772568-001S	1	1
26	PCB ASSY, ACOUSTIC ECHO CANCEL (AEC)	772789-001S	1	1
27	SCREW, SI, MSB, M3x8MM, CARBON STEEL, BLACK	-	2	
28	SCREW, MSB, 3x5MM, W/WASHER	-	1	
29	STANDOFF, 5.5MM	-	1	
30	PCB ASSY, BROOKLYN II PCB (DANTE CARD)	788741-001S	1	
31	PCB ASSY, INPUT, 12 CHANNEL	772391-001S	1	1
32	PCB ASSY, PUBLIC SWITCH TELEPHONE NETWORK (PSTN)	772582-001S	1	1

EXPLODED VIEW

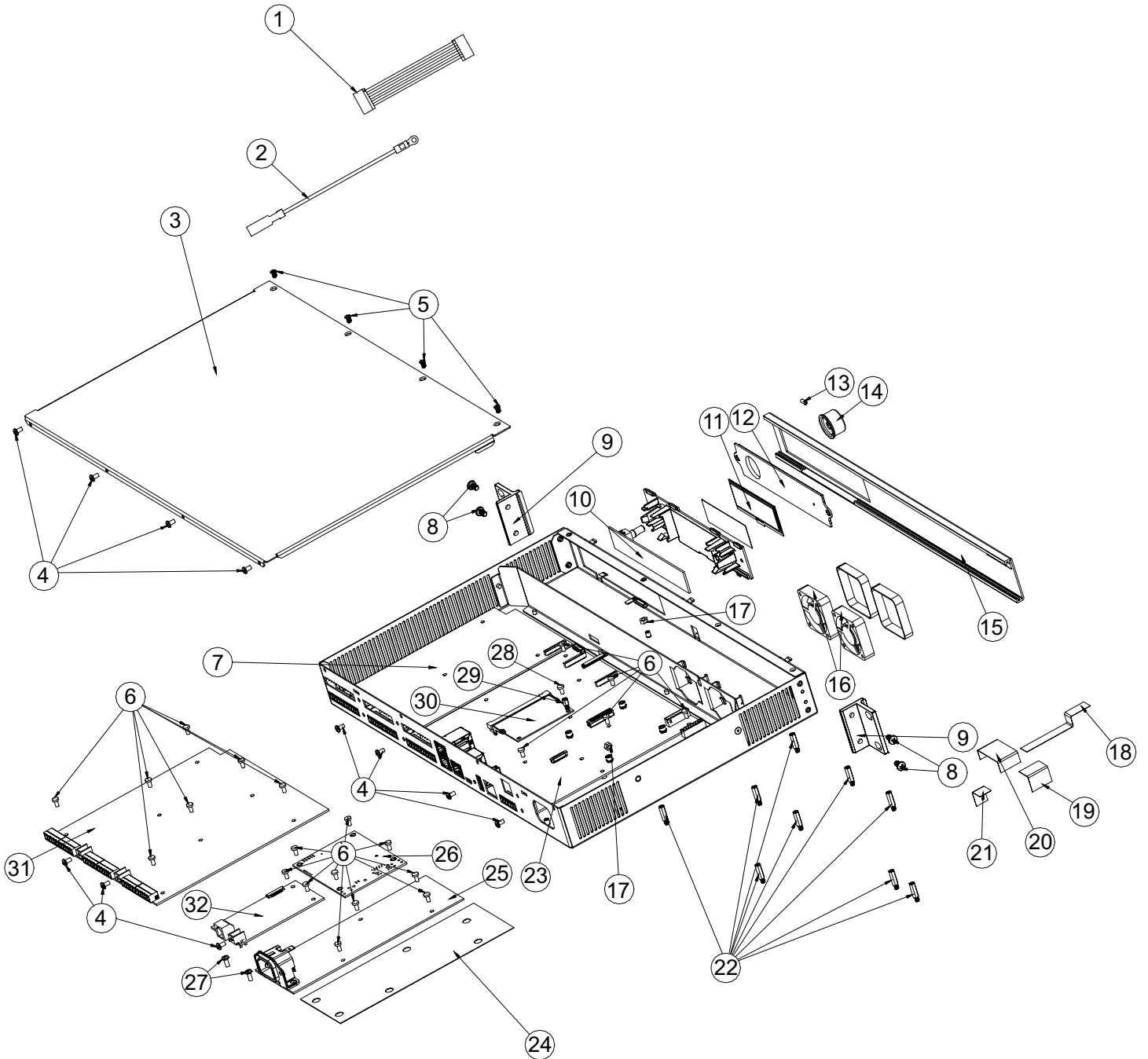


Figure 2. ControlSpace® EX 1280C Exploded View

MAIN DSP PCB PART LIST

Resistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
R2	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R3	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R4	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R5	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R6	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R7	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R8	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R9	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R10	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R11	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R12	240, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2400X	
R13	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R14	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R15	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R16	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R17	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R18	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R19	49.9, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF49R9X	
R20	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R21	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R22	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R23	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R24	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R26	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R27	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R28	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R29	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R30	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R32	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R33	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R36	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R37	470K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4703X	
R38	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R39	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R40	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R41	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R42	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R43	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R45	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R46	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R47	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R48	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R49	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	

MAIN DSP PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R50	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R51	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R52	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R53	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R54	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R55	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R56	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R57	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R59	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R69	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R71	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R72	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R73	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R74	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R75	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R76	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R77	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R78	59.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF59R0X	
R79	59.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF59R0X	
R80	59.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF59R0X	
R81	59.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF59R0X	
R82	1.20K, 1/4W, 1%, 1206, SM	PANASONIC	ERJ-8ENF1201V	
R83	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R84	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R85	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R86	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R88	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R89	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R90	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R91	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R92	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R93	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R94	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R95	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R96	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R98	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R102	1.20K, 1/4W, 1%, 1206, SM	PANASONIC	ERJ-8ENF1201V	
R103	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R104	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R105	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R106	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R107	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R109	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	

MAIN DSP PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R110	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R112	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R113	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R114	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R115	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R116	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R117	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R118	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R119	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R121	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R122	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R124	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R125	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R126	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R128	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R130	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R132	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R134	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R135	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R136	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R137	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R138	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R139	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R140	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R141	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R142	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R143	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R144	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R145	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R146	4.99K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4991X	
R147	4.99K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4991X	
R148	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R149	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R150	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R151	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R152	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R153	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R154	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R155	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R156	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R157	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R158	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R159	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	

MAIN DSP PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R160	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R161	4.99K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4991X	
R162	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R163	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R164	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R165	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R166	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R167	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R168	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R169	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R170	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R171	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R172	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R173	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R174	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R175	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R176	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R177	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R178	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R179	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R180	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R181	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R182	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R183	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R184	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R185	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R186	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R188	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R190	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R192	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R195	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R196	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R197	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R198	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R199	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R200	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R201	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R202	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R203	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R204	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R205	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R206	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R207	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	

MAIN DSP PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R208	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R209	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R210	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R211	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R212	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R213	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R214	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R215	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R216	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R217	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R218	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R220	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R221	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R222	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R223	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R224	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R225	49.9, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF49R9X	
R226	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R227	4.99K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4991X	
R228	49.9, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF49R9X	
R229	49.9, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF49R9X	
R230	49.9, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF49R9X	
R231	49.9, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF49R9X	
R232	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R233	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R234	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R235	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R237	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R238	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R239	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R240	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R241	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R242	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R244	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R246	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R247	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R248	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R254	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R256	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R257	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R258	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R259	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R260	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	

MAIN DSP PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R261	4.99K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4991X	
R262	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R263	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R264	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R268	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R269	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R271	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R272	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R274	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R276	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R277	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R278	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R279	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R281	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R282	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R283	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R284	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R286	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R291	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R295	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R296	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R300	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R301	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R302	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R303	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R304	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R305	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R310	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R311	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R312	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R313	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R315	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R316	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R318	10, 1/4W, 5%, 0603, SM	ROHM	ESR03EZPJ100	
R319	120, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1200X	
R320	10, 1/4W, 5%, 0603, SM	ROHM	ESR03EZPJ100	
R321	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R323	200K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2003X	
R324	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R325	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R326	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R327	2.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2001X	
R328	2.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2001X	

MAIN DSP PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R329	2.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2001X	
R330	2.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2001X	
R331	2.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2001X	
R332	100, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1000X	
R333	100, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1000X	
R334	100, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1000X	
R335	100, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1000X	
R336	100, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1000X	
R337	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R338	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R339	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R340	499K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4993X	
R341	499K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4993X	
R342	499K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4993X	
R343	499K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4993X	
R344	499K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4993X	
R345	470, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4700X	
R346	470, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4700X	
R347	470, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4700X	
R348	470, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4700X	
R349	470, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4700X	
R350	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R351	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R352	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R353	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R354	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R356	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R357	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R358	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R359	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R360	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R361	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R362	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R363	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R364	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R365	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R366	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R367	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R368	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R369	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R370	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R371	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	
R372	4.70K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4701X	

MAIN DSP PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R373	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R374	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R375	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R376	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R377	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R378	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R379	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R380	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R381	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R382	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R383	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R384	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R385	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R386	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R387	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R388	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R389	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R390	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R391	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R392	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R393	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R394	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R395	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R396	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R397	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R398	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R399	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R400	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R401	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R402	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R403	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R404	200, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2000X	
R406	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R407	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R408	100, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1000X	
R409	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R410	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R411	10.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF10R0X	
R412	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R413	2.2 OHM, 1/10W, 1%, 0603	PANASONIC	ERJ-3RQF2R2V	
R414	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R415	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R416	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	

MAIN DSP PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R418	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R419	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R420	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R446	100, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1000X	
R447	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R448	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R449	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R450	100, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1000X	
R451	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R452	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R453	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R454	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R455	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R456	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R457	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R458	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R459	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R460	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R461	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R462	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R463	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R464	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R465	100, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1000X	
R466	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R467	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R468	43.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF4302X	
R469	2.55K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2551X	
R470	11.5K, 1/10W, 1%, 0402	PANASONIC	ERJ-2RKF1152X	
R471	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R472	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R473	1.78K, 1/10W, 0402, 1%	PANASONIC	ERJ-2RKF1781X	
R474	20.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2002X	
R475	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R476	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R477	20.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2002X	
R478	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R480	20.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2002X	
R481	680K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF6803X	
R482	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R484	130K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1303X	
R485	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R486	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R487	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	

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Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R490	150K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1503X	
R491	20.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2002X	
R492	56.2K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF5622X	
R493	20.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2002X	
R495	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R496	240K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2403X	
R497	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R498	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R500	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R501	20.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2002X	
R502	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R504	31.6K, 1/10W, 1%, 0402	PANASONIC	ERJ-2RKF3162X	
R505	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R506	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R507	1.69K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1691X	
R508	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R509	100K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1003X	
R510	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R511	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R512	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R515	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R516	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R517	300K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF3003X	
R518	20.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2002X	
R520	240K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF2403X	
R521	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R522	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R523	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R524	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R525	1.00K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1001X	
R526	10, 1/4W, 5%, 0603, SM	ROHM	ESR03EZPJ100	
R527	0.0, 1/10W, JUMPER, 0402, SM	PANASONIC	ERJ-2GE0R00X	
R528	10.0K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF1002X	
R529	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R530	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	
R531	33.0, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF33R0X	

Resistor Networks

Reference Designator	Description	Vendor	Vendor Part Number	Note
RN1	RES NET, ISO, 33, 5%, 62.5MW, 1606	ROHM	MNR18ERAPJ330	
RN2	RES NET, ISO, 22, 5%, 62.5MW, 1606	ROHM	MNR18ERAPJ220	
RN3	RES NET, ISO, 33, 5%, 62.5MW, 1606	ROHM	MNR18ERAPJ330	

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Resistor Networks (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
RN4	RES NET, ISO, 22, 5%, 62.5MW, 1606	ROHM	MNR18ERAPJ220	
RN5	RES NET, ISO, 33, 5%, 62.5MW, 1606	ROHM	MNR18ERAPJ330	
RN6	RES NET, ISO, 33, 5%, 62.5MW, 1606	ROHM	MNR18ERAPJ330	
RN7	RES NET, ISO, 22, 5%, 62.5MW, 1606	ROHM	MNR18ERAPJ220	
RN8	RES NET, ISO, 22, 5%, 62.5MW, 1606	ROHM	MNR18ERAPJ220	
RN9	RES NET, ISO, 22, 5%, 62.5MW, 1606	ROHM	MNR18ERAPJ220	

Capacitors

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1	NPO 22PF 50V +/-5% 0402 ROHS	MURATA	GRM1555C1H220JA01D	
C2	NPO 22PF 50V +/-5% 0402 ROHS	MURATA	GRM1555C1H220JA01D	
C3	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C4	TANT 68UF 6.3V 10% 1206	KEMET	T491A686K006AT	
C5	TANT 33UF 6.3V 20% 1206	KEMET	T491A336M006AT	
C6	TANT 33UF 6.3V 20% 1206	KEMET	T491A336M006AT	
C7	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C8	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C9	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C10	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C11	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C12	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C13	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C14	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C15	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C16	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C17	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C18	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C19	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C20	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C21	NPO 22PF 50V +/-5% 0402 ROHS	MURATA	GRM1555C1H220JA01D	
C22	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C23	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C24	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C25	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C26	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C27	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C28	NPO 22PF 50V +/-5% 0402 ROHS	MURATA	GRM1555C1H220JA01D	
C29	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C30	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C31	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C32	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C33	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	

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Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C34	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C35	CER, 4.7UF, 6.3V, 10%, X5R, 0603, SM	MURATA	GRM188R60J475KE19D	
C36	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C37	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C38	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C39	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C40	CER, 4.7UF, 6.3V, 10%, X5R, 0603, SM	MURATA	GRM188R60J475KE19D	
C41	TANT 33UF 6.3V 20% 1206	KEMET	T491A336M006AT	
C42	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C43	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C44	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C45	X7R 1NF 50V +/-10% 0402 ROHS	MURATA	GRM155R71H102KA01D	
C46	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C47	TANT 33UF 6.3V 20% 1206	KEMET	T491A336M006AT	
C48	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C49	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C50	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C51	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C52	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C53	X7R 1NF 50V +/-10% 0402 ROHS	MURATA	GRM155R71H102KA01D	
C54	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C55	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C56	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C57	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C58	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C59	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C60	TANT 68UF 6.3V 10% 1206	KEMET	T491A686K006AT	
C61	TANT 33UF 6.3V 20% 1206	KEMET	T491A336M006AT	
C62	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C63	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C64	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C65	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C66	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C67	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C68	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C69	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C70	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C71	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C72	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C73	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C74	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C75	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C76	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	

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Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C77	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C78	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C79	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C80	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C81	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C82	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C83	TANT 68UF 6.3V 10% 1206	KEMET	T491A686K006AT	
C84	TANT 33UF 6.3V 20% 1206	KEMET	T491A336M006AT	
C85	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C86	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C87	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C88	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C89	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C90	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C91	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C92	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C93	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C94	TANT 68UF 6.3V 10% 1206	KEMET	T491A686K006AT	
C95	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C96	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C97	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C98	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C99	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C100	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C101	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C102	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C103	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C104	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C105	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C106	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C107	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C108	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C109	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C110	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C111	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C112	CER, 1UF, 25V, 10%, X7R, 0603	TAIYO YUDEN	TMK107B7105KA-T	
C113	CER, 1UF, 25V, 10%, X7R, 0603	TAIYO YUDEN	TMK107B7105KA-T	
C114	CER, 1UF, 25V, 10%, X7R, 0603	TAIYO YUDEN	TMK107B7105KA-T	
C115	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C116	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C117	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C118	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C119	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	

MAIN DSP PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C120	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C121	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C122	CER, 1UF, 25V, 10%, X7R, 0603	TAIYO YUDEN	TMK107B7105KA-T	
C123	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C124	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C125	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C126	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C127	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C128	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C129	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C130	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C131	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C132	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C133	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C134	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C135	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C136	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C137	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C138	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C139	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C140	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C141	CER, 4.7UF, 6.3V, 10%, X5R, 0603, SM	MURATA	GRM188R60J475KE19D	
C142	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C143	CER, 4.7UF, 6.3V, 10%, X5R, 0603, SM	MURATA	GRM188R60J475KE19D	
C144	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C145	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C146	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C147	CER, 4.7UF, 6.3V, 10%, X5R, 0603, SM	MURATA	GRM188R60J475KE19D	
C148	CER, 4.7UF, 6.3V, 10%, X5R, 0603, SM	MURATA	GRM188R60J475KE19D	
C149	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C150	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C151	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C152	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C153	CER, 1UF, 25V, 10%, X7R, 0603	TAIYO YUDEN	TMK107B7105KA-T	
C154	CER, 1UF, 25V, 10%, X7R, 0603	TAIYO YUDEN	TMK107B7105KA-T	
C155	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C156	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C157	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C158	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C159	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C160	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C161	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C162	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	

MAIN DSP PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C163	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C164	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C165	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C166	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C167	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C168	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C169	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C170	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C171	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C172	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C173	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C174	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C177	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C175	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C178	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C180	NPO 18PF 50V +/-5% 0402 ROHS	MURATA	GRM1555C1H180JA01D	
C181	NPO 18PF 50V +/-5% 0402 ROHS	MURATA	GRM1555C1H180JA01D	
C182	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C183	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C184	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C185	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C186	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C187	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C188	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C189	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C190	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C191	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C192	CER, 0.22UF, 16V, 10%, X5R, 0402	TDK	C1005X5R1C224K	
C193	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C194	X7R 1NF 50V +/-10% 0402 ROHS	MURATA	GRM155R71H102KA01D	
C195	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C196	CER, 1UF, 25V, 10%, X7R, 0603	TAIYO YUDEN	TMK107B7105KA-T	
C197	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C198	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C199	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C200	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C201	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C202	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C203	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C204	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C205	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C206	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C207	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	

MAIN DSP PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C208	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C209	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C210	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C211	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C212	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C213	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C214	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C215	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C216	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C217	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C218	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C219	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C220	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C221	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C222	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C223	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C224	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C225	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C226	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C227	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C228	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C229	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C230	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C231	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C232	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C233	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C234	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C235	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C236	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C237	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C238	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C239	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C240	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C241	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C242	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C243	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C244	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C245	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C246	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C247	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C248	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C249	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C250	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	

MAIN DSP PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C251	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C252	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C253	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C254	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C255	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C256	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C257	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C258	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C260	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C261	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C262	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C263	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C264	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C265	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C266	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C267	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C268	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C269	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C270	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C271	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C272	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C273	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C274	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C275	CER, 30PF, 50V, 5%, COG, 0402, SM	MURATA	GRM1555C1H300JA01D	
C276	COG 470PF 50V +/-5% 0402 ROHS	MURATA	GRM1555C1H471JA01D	
C277	CER, 30PF, 50V, 5%, COG, 0402, SM	MURATA	GRM1555C1H300JA01D	
C278	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C279	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C280	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C281	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C282	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C283	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C284	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C285	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C286	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C291	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C293	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C295	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C296	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C297	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C298	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C299	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C300	X7R 1NF 50V +/-10% 0402 ROHS	MURATA	GRM155R71H102KA01D	

MAIN DSP PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C301	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C302	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C303	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C304	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C305	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C306	X7R 1NF 50V +/-10% 0402 ROHS	MURATA	GRM155R71H102KA01D	
C307	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C308	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C309	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C310	X7R 1NF 50V +/-10% 0402 ROHS	MURATA	GRM155R71H102KA01D	
C311	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C312	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C313	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C314	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C315	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C316	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C317	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C318	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C319	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C320	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C321	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C322	TANT 68UF 6.3V 10% 1206	KEMET	T491A686K006AT	
C323	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C324	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C325	TANT 68UF 6.3V 10% 1206	KEMET	T491A686K006AT	
C326	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C327	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C332	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C333	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C334	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C335	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C336	CER, 4.7UF, 6.3V, 10%, X5R, 0603, SM	MURATA	GRM188R60J475KE19D	
C337	150UF, 6.3V, 20%, X5R, 1210	SAMSUNG	CL32A157MQVNNNE	
C338	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C339	CER, 4.7UF, 6.3V, 10%, X5R, 0603, SM	MURATA	GRM188R60J475KE19D	
C340	150UF, 6.3V, 20%, X5R, 1210	SAMSUNG	CL32A157MQVNNNE	
C341	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C342	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C343	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C344	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C345	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C346	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C347	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	

MAIN DSP PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C348	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C349	CER, 2.2UF, 16V, 20%, X5R, 0805, SM	MURATA	GRM21BR61C225KA88L	
C350	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C351	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C352	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C353	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C354	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C355	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C356	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C357	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C358	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C359	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C360	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C361	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C362	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C363	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C364	X7R 2.2UF 100V +/-10% 1210 ROHS	TAIYO YUDEN	HMK325B7225KN-T	
C365	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C366	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C367	X7R 2.2UF 100V +/-10% 1210 ROHS	TAIYO YUDEN	HMK325B7225KN-T	
C368	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C369	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C370	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C371	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C372	TANT 68UF 6.3V 10% 1206	KEMET	T491A686K006AT	
C373	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C374	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C375	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C376	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C377	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C378	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C379	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C380	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C381	TANT 68UF 6.3V 10% 1206	KEMET	T491A686K006AT	
C382	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C383	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C384	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C385	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C386	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C387	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C388	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C389	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C390	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	

MAIN DSP PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C391	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C392	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C393	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C394	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C395	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C396	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C397	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C398	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C399	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C400	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C401	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C402	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C403	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C404	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C405	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C406	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C407	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C408	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C409	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C410	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C411	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C412	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C413	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C414	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C415	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C416	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C417	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C418	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C419	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C420	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C421	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C422	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C423	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C424	CER, 100PF, 2KV, 10%, X7R, 1206, SM	AVX	1206GC101KAT1A	
C426	CER, 1UF, 25V, 10%, X7R, 0603	TAIYO YUDEN	TMK107B7105KA-T	
C427	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C428	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C429	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C430	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C431	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C432	NPO 22PF 50V +/-5% 0402 ROHS	MURATA	GRM1555C1H220JA01D	
C433	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C434	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	

MAIN DSP PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C435	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C436	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C437	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C438	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C439	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C440	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C441	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C442	X7R 2.2UF 100V +/-10% 1210 ROHS	TAIYO YUDEN	HMK325B7225KN-T	
C443	EL, ALUM, 100UF, 50V, 20%, SMT_D, SM	PANASONIC	EEE-FTH101XAP	
C444	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C445	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C446	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C448	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C449	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C450	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C451	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C452	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C453	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C454	CER, 4700PF, 50V, 10%, X7R, 0402, SM	MURATA	GRM155R71H472KA01D	
C456	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C457	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C458	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C459	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C460	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C461	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C462	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C463	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C464	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C465	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C466	CER, 4700PF, 50V, 10%, X7R, 0402, SM	MURATA	GRM155R71H472KA01D	
C467	EL, ALUM, 100UF, 50V, 20%, SMT_D, SM	PANASONIC	EEE-FTH101XAP	
C468	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C469	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C470	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C471	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C472	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C473	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C474	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C475	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C476	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C477	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C478	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C479	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	

MAIN DSP PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C480	CER, 8200PF, 50V, 10%, X7R, 0402, SM	MURATA	GRM155R71H822KA88D	
C481	EL, ALUM, 100UF, 50V, 20%, SMT_D, SM	PANASONIC	EEE-FTH101XAP	
C482	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C483	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C484	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C486	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C487	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C488	CER, 22UF, 10V, +/-20%, X5R, 0805, SM	MURATA	GRM21BR61A226ME51L	
C489	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C490	CER, 10UF, 25V, 10%, X5R, 0805, SM	MURATA	GRM21BR61E106KA73L	
C491	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C492	CER, 4700PF, 50V, 10%, X7R, 0402, SM	MURATA	GRM155R71H472KA01D	
C493	X7R 10NF 25V +/-10% 0402 ROHS	MURATA	GRM155R71E103KA01D	
C494	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	
C495	CER, 4.7UF, 6.3V, 10%, X5R, 0603, SM	MURATA	GRM188R60J475KE19D	
C496	CER, 0.1UF, 50V, 10%, X7R, 0402, SM	TDK	C1005X7R1H104K050BB	

Inductors

Reference Designator	Description	Vendor	Vendor Part Number	Note
L1	WW, 2.2UH, 2.62A, FERR +/-30%	TDK	VLCF5020T-2R2N2R6-3	
L2	WW, 2.2UH, 2.62A, FERR +/-30%	TDK	VLCF5020T-2R2N2R6-3	
L3	WW, 2.2UH, 2.62A, FERR +/-30%	TDK	VLCF5020T-2R2N2R6-3	
L4	FILTER, COMMON MODE, 300MA, 90OHM, SMD	TDK	ACM2012H-900-2P-T00	
L5	FILTER, COMMON MODE, 300MA, 90OHM, SMD	TDK	ACM2012H-900-2P-T00	
L6	FILTER, CMC, 90OHM @ 100MHz, 100mA	MURATA	DLM11SN900HY2L	
L7	WW, 2.2UH, 3.5A, FERR +/-30%	TDK	SLF7055T-2R2N3R5-3PF	
L8	WW, 2.2UH, 3.5A, FERR +/-30%	TDK	SLF7055T-2R2N3R5-3PF	
L9	WW, 2.2UH, 2.62A, FERR +/-30%	TDK	VLCF5020T-2R2N2R6-3	
L10	MULTILAYER, 4.7UH, 400MA, FERR +/-20%, 0805	TDK	MLZ2012M4R7HT000	
L11	WW, 4.7UH, 5.6A, METAL, +/-20%	TDK	SPM6530T-4R7M	
L12	MULTILAYER, 4.7UH, 400MA, FERR +/-20%, 0805	TDK	MLZ2012M4R7HT000	
L13	WW, 2.2UH, 3.5A, FERR +/-30%	TDK	SLF7055T-2R2N3R5-3PF	

Ferrite Beads

Reference Designator	Description	Vendor	Vendor Part Number	Note
FB1	FERR BEAD, 0.8A, 150 OHM, 0805	LAIRD-SIGNAL	LI0805H151R-10	
FB2	FERR BEAD, 0.8A, 150 OHM, 0805	LAIRD-SIGNAL	LI0805H151R-10	
FB3	FERR BEAD, 0.8A, 150 OHM, 0805	LAIRD-SIGNAL	LI0805H151R-10	

MAIN DSP PCB PART LIST

Ferrite Beads (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
FB4	FERR BEAD, 0.8A, 150 OHM, 0805	LAIRD-SIGNAL	LI0805H151R-10	
FB5	FERR BEAD, 0.8A, 150 OHM, 0805	LAIRD-SIGNAL	LI0805H151R-10	
FB6	FERR BEAD, 0.8A, 150 OHM, 0805	LAIRD-SIGNAL	LI0805H151R-10	
FB7	FERR BEAD, 0.8A, 150 OHM, 0805	LAIRD-SIGNAL	LI0805H151R-10	
FB8	FERR BEAD, 0.8A, 150 OHM, 0805	LAIRD-SIGNAL	LI0805H151R-10	
FB10	FERR 50 OHM 3500MA 1206	MURATA	BLM31PG500SN1L	
FB11	FERR 50 OHM 3500MA 1206	MURATA	BLM31PG500SN1L	
FB12	FERR BEAD, 120 OHM, 3A, 0603	MURATA	BLM18SG121TN1D	
FB13	FERR BEAD, 120 OHM, 3A, 0603	MURATA	BLM18SG121TN1D	
FB14	FERR BEAD, 120 OHM, 3A, 0603	MURATA	BLM18SG121TN1D	
FB15	FERR 3A 80 OHM 1206 SMD	LAIRD-SIGNAL	HI1206N800R-10	
FB16	FERR BEAD, 220 OHM, 0.5A, 0603, SM	MURATA	BLM18AG221SN1	

Filters

Reference Designator	Description	Vendor	Vendor Part Number	Note
FC1	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC2	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC3	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC4	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC5	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC6	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC7	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC8	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC9	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC10	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC11	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC12	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC13	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	
FC14	FILTER HIGH FREQ 2200PF 0805	MURATA	NFM21CC222R1H3D	

Diodes

Reference Designator	Description	Vendor	Vendor Part Number	Note
D1	TVS 6-CH 10UQFN	TEXAS INST.	TPD6E001RSER	
D2	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D3	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D4	TVS 5VWM 17VC SOT23-6	ST MICRO	DVIULC6-4SC6	
D5	TVS 5VWM 17VC SOT23-6	ST MICRO	DVIULC6-4SC6	
D6	TVS 5VWM 17VC SOT23-6	ST MICRO	DVIULC6-4SC6	
D7	TVS 5VWM 17VC SOT23-6	ST MICRO	DVIULC6-4SC6	
D8	TVS 5VWM 17VC SOT23-6	ST MICRO	DVIULC6-4SC6	
D9	TVS 5VWM 17VC SOT23-6	ST MICRO	DVIULC6-4SC6	

MAIN DSP PCB PART LIST

Diodes (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
D10	4CH ESD SOL W/CLAMP 6SON	TEXAS INST.	TPD4S012DRYR	
D11	4CH ESD SOL W/CLAMP 6SON	TEXAS INST.	TPD4S012DRYR	
D12	TVS SC70-3	TEXAS INST.	TPD2E007DCKR	
D13	TVS 5VWM SMD	BOURNS	SMAJ5.0A	
D14	TVS 5VWM SMD	BOURNS	SMAJ5.0A	
D15	TVS 5VWM SMD	BOURNS	SMAJ5.0A	
D16	TVS 5VWM SMD	BOURNS	SMAJ5.0A	
D17	TVS 5VWM SMD	BOURNS	SMAJ5.0A	
D18	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D19	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D20	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D21	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D22	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D22	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D23	TVS 24VWM SMD	BOURNS	SMAJ24A	
D24	TVS 24VWM SMD	BOURNS	SMAJ24A	
D25	TVS 24VWM SMD	BOURNS	SMAJ24A	
D26	TVS 24VWM SMD	BOURNS	SMAJ24A	
D27	TVS 24VWM SMD	BOURNS	SMAJ24A	
D28	TVS 5VWM 17VC SOT23-6	ST MICRO	DVIULC6-4SC6	
D29	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D30	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D31	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D32	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D33	SCHOTTKY 40V 100MA SMINI	TOSHIBA	1SS294,LF	
D34	DIODE, SKY, 40V, 2A, SMA	DIODES INC	B240A-13-F	
D35	DIODE, SKY, 40V, 2A, SMA	DIODES INC	B240A-13-F	
D36	DIODE, SKY, 300MA, 40V, DUAL, SERIES, SOT-23	ST MICRO	BAT54SFILM	
D37	TVS 5.5VWM 100VC SOT5	TEXAS INST.	TPD2E001DRLR	

Transistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
Q2	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q3	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q4	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q5	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q6	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q7	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q8	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q9	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q10	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	

MAIN DSP PCB PART LIST

Transistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
Q11	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q12	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q13	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q14	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q15	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q16	MOSFET N-CH 60V 115MA SOT-23	FAIRCHILD	2N7002	
Q17	MOSFET N-CH 50V 100MA 3CP	ON SEMI	5LN01C-TB-E	
Q18	TRAN, NPN, 40V, 600MA, SOT23-3	DIODES INC	MMBT2222A-7-F	
Q19	TRAN, NPN, 40V, 600MA, SOT23-3	DIODES INC	MMBT2222A-7-F	
Q20	TRAN, NPN, 40V, 600MA, SOT23-3	DIODES INC	MMBT2222A-7-F	
Q21	TRAN, NPN, 40V, 600MA, SOT23-3	DIODES INC	MMBT2222A-7-F	
Q22	TRAN, PNP, 60V, 0.6A, SOT-23-3	ON SEMI	MMBT2907ALT1G	
Q23	TRAN, NPN, 40V, 600MA, SOT23-3	DIODES INC	MMBT2222A-7-F	

Integrated Circuits

Reference Designator	Description	Vendor	Vendor Part Number	Note
U1	MPU SITARA 600MHZ 324NFBGA	TEXAS INST.	AM3356BZCZ60	
U2	DIG DDR3 SDRAM 2GBIT 96FBGA	MICRON	MT41J128M16JT-125:K	
U4	DIG SUPERVISOR 2.930V PP SOT23-5	ST MICRO	STM6825SWY6F	
U6	CONV DDR DDR2 DDR3 10SON	TEXAS INST.	TPS51200DRCR	
U7	DIG, 8-BIT BUFFER, TRI-ST, TSSOP-20	TEXAS INST.	SN74LVC541APWR	
U8	DIG, LOGIC, BUFFER, TRI-STATE, QUAD, TSSOP-14	TEXAS INST.	SN74LVC126APWR	
U9	FLASH 1GBIT 108MHZ 16SOP	MICRON	N25Q00AA13GSF40G	
U10	DIG, LOGIC, MULTIFUNCTION, SOT-23-6	TEXAS INST.	SN74LVC1G57DBVR	
U11	DIG, 8-BIT BUFFER, TRI-ST, TSSOP-20	TEXAS INST.	SN74LVC541APWR	
U12	DIG, EEPROM, 256KBIT, I2C, SOIC-8	ON SEMI	CAT24C256WI-GT3	
U13	PWR MGMT 4DCDC/8 LDO 48VQFN	TEXAS INST.	TPS65910A3A1RSLR	
U14	REG LDO 1.8V 50MA SC70-5	TEXAS INST.	TPS79718DCKR	
U15	CPLD 64MC 7.5NS 100TQFP	ALTERA	5M80ZT100C5N	
U16	DSP FIX/FLOAT POINT 256BGA	TEXAS INST.	TMS320C6747DZKB4	
U17	SDRAM 256MBIT 166MHZ VFBGA	MICRON	MT48LC16M16A2B4-6A:G	
U19	DIG, 7-PORT GE SWITCH WITH EEE, 128TQFP-EP	MARVELL	88E6172	
U20	DIG PWR DIST SWITCH DL 8MSOP	TEXAS INST.	TPS2052CDGNR	
U21	TXRX DUAL RS232 3-5.5V 16SOIC	INTERSIL	ICL3232CBNZ	
U22	DIG, TXRX, RS-485, SOIC-8	TEXAS INST.	SN75HVD12DR	
U23	DIG, I2C LEVEL TRANSLATOR, TSSOP-8	NXP	PCA9306DP,118	
U24	ADC SERIAL 8BIT 8CH 16-QSOP	MAXIM	MAX11602EEE+	
U25	DIG, I2C/SMBIUS, 8BIT, GPIO, 16-TSSOP	TEXAS INST.	PCA9534APWR	
U26	REDRIVER I2C 1CH 8TSSOP	NXP SEMI	PCA9515ADP,118	
U27	REDRIVER I2C 1CH 8TSSOP	NXP SEMI	PCA9515ADP,118	

MAIN DSP PCB PART LIST

Integrated Circuits (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
U28	I/O EXPANDER I2C 40B 56TSSOP	NXP SEMI	PCA9505DGG,118	
U29	REG LDO 1V 0.4A SOT23-5	ON SEMI	NCP4671DSN10T1G	
U30	D-TYPE POS TRG SNGL SC70-5	TEXAS INST.	SN74AUP1G80DCKR	
U31	LINE DRVR/RCVR M-LVDS 8-SOIC	TEXAS INST.	SN65MLVD201D	
U32	FLASH 2MBIT 104MHZ 8SOIC	WINBOND	W25X20CLSNG	
U33	DIG, MCU, XCORE, 32-BIT, 400MIPS , 64KB, 48-TQFP	XMOS	XS1-L4A-64-TQ48-C4	
U34	VOLT DETECT OD 0.9V 5TSOP	ON SEMI	NCP301LSN09T1G	
U35	DIG, LOGIC, AND, SINGLE, SC-70-5	TEXAS INST.	SN74LVC1G08DCKR	
U36	DIG, BUFF DL UHS O/DRAIN, SC706	FAIRCHILD	NC7WZ07P6X	
U37	DIG, 8-BIT BUFFER, TRI-ST, TSSOP-20	TEXAS INST.	SN74LVC541APWR	
U38	PWR, REG, BUCK, 3A, QFN-16	TEXAS INST.	TLV62130ARGTT	
U39	REG BUCK 5V 1A SYNC 8WSON	TEXAS INST.	TPS62163DSGR	
U40	PWR, REG, BUCK, 3A, QFN-16	TEXAS INST.	TLV62130ARGTT	
U41	REG BUCK ADJ 6A SYNC 14VQFN	TEXAS INST.	TPS54620RGYR	
U42	TEMP SNSR/DC FAN CTRLR 8-MSOP	MICROCHIP	TC650AEVUA	
U43	DIG, INVERTER, SINGLE, SC70-5	TEXAS INST.	SN74LVC1G04DCKR	
U44	PWR, REG, BUCK, 3A, QFN-16	TEXAS INST.	TLV62130ARGTT	

Miscellaneous

Reference Designator	Description	Vendor	Vendor Part Number	Note
BATT1	BATT LITH HITEMP 1000MAH PC PINS	PANASONIC	BR-2477A/HBN	
J1	CONN MICRO SD CARD MANUAL-MANUAL VERT THRU	YAMAICHI	PJS008U-3000-0	
J2	HEADER, 1X2, 0.1, TH	SAMTEC	TSW-102-07-G-S	
J3	HEADER, 2X5, 0.1, THRU	SAMTEC	TSW-105-07-G-D	
J5	HEADER, 2X5, 0.1, THRU	SAMTEC	TSW-105-07-G-D	
J6	HEADER, 2X5, 0.1, THRU	SAMTEC	TSW-105-07-G-D	
J7	CON, MEMORY, SODIMM, SOCKET, 124P, BD GD, LCH, SMT RA, AU, 6.86 SH, 0.8MM	TE CONNECT	440360-2	
J8	CON, RECEPT, RJ-45, 8 PIN, RA, SHIELDED, TAB UP, THRU	S-USA	MJA0147S3G05A	
J9	CONN, RJ45, 1X2, RA, 1000 BASE-T W/LED	S-USA	MJD028ES3G02A	
J10	CON, BD-TO-BD, CONAN, REC, 1A, 41P, BD GD, SMT, AU, 5.0 SH, 1MM	FCI	91930-21141LF	
J11	CONN, MICRO USB 2.0, RIGHT ANGLE, SMT	Amphenol	10118194	
J12	CONN, USB 2.0, TYPE A, VERT RA, TH	S-USA	UAF004FS3A62A	
J13	CON, TERM BLOCK, 3, BLACK, 3.81MM, RA, TH	PHOENIX	1839623	
J14	CON, TERM BLOCK, 3, BLACK, 3.81MM, RA, TH	PHOENIX	1839623	
J15	CON, TERM BLOCK, COMBICONN, 6, 3.81MM, RA, TH	PHOENIX	1803316	

MAIN DSP PCB PART LIST

Miscellaneous (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
J16	CON, TERM BLOCK, 8A, 6, ORANGE, 3.81MM, RA, TH	PHOENIX	1701044	
J17	CONN, FLT, 0.5mm, TOP ENTRY, SMT	JST	40FLT-SM2-TB	
J18	CONN, FLT, 0.5mm, TOP ENTRY, SMT	JST	40FLT-SM2-TB	
J19	CONN FFC VERT 24POS 0.50MM SMD	FCI	SFV24R-2STE1HLF	
J21	CONN FFC VERT 24POS 0.50MM SMD	FCI	62674-241121ALF	
J22	CON, RECEPT, RJ-45, 8 PIN, RA, SHIELDED, TAB DOWN, THRU	S-USA	RJF008RG3UL1A	
J26	HEADER, 1X4, 0.1, TH	SAMTEC	TSW-104-07-G-S	
J27	CONN HEADER, 2x7, 13POS LOADED, NO 6, 1.27MM, SMD	SAMTEC	FTR-107-03-G-D-06	
J28	CONN HEADER, 2x7, 13POS LOADED, NO 6, 1.27MM, SMD	SAMTEC	FTR-107-03-G-D-06	
J29	CONN HEADER XH TOP 8POS 2.5MM	JST	B8B-XH-AM(LF)(SN)	
J30	CONN HEADER XH TOP 2POS 2.5MM	JST	B2B-XH-A(LF)(SN)	
J31	CONN HEADER XH TOP 2POS 2.5MM	JST	B2B-XH-A(LF)(SN)	
M2	METAL MOUNTING BRACKET BSE30A1 M3 THREAD ROHS			
M3	METAL MOUNTING BRACKET BSE30A1 M3 THREAD ROHS			
M4	METAL MOUNTING BRACKET BSE30A1 M3 THREAD ROHS			
M5	METAL MOUNTING BRACKET BSE30A1 M3 THREAD ROHS			
M6	SPACER SUPP SMTSO-M3-5ET ROHS			
M7	SPACER SUPP SMTSO-M3-5ET ROHS			
M8	SPACER SUPP SMTSO-M3-5ET ROHS			
M9	SPACER SUPP SMTSO-M3-5ET ROHS			
S1	SWITCH, TACTILE, SPST-NO, 0.05A, 12V, VERT, SM	PANASONIC	EVQ-PE104K	
X1	XTAL 24.0000MHZ 18PF SMD	CITIZEN	CS325S24000000ABJT	
X2	XTAL 32.7680 KHZ 12.5PF SMD	EPSON	MC-306 32.7680K-A0	
X3	XTAL 24.0000MHZ 18PF SMD	CITIZEN	CS325S24000000ABJT	
X4	XTL, 25 MHZ, 50PPM, 8PF, 5X3.2MM, SMT	NDK	NX5032GA-25.000000MHZ-LN-CD-1	
Y1	OSC, 24.576 MHZ, 3.3V, SMD	FOX	FXO-HC735-24.576	

INPUT PCB PART LIST

Resistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1000	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1001	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1002	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1003	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1004	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1005	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1006	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1007	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1008	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1009	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1010	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1011	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1013	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1014	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1015	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1016	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1017	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1018	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1019	82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1020	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1021	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1022	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1023	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1050	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1051	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1052	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1053	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1054	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1055	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1056	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1057	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1058	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1059	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1060	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1061	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1063	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1064	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1065	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1066	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1067	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1068	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1069	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1070	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1071	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1072	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1073	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1100	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1101	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1102	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1103	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1104	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1105	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1106	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1107	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1108	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1109	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1110	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1111	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1113	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1114	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1115	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1116	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1117	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1118	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1119	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1120	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1121	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1122	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1123	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1150	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1151	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1152	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1153	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1154	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1155	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1156	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1157	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1158	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1159	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1160	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1161	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1163	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1164	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1165	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1166	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1167	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1168	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1169	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1170	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1171	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1172	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1173	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1200	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1201	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1202	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1203	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1204	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1205	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1206	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1207	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1208	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1209	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1210	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1211	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1213	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1214	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1215	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1216	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1217	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1218	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1219	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1220	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1221	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1222	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1223	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1250	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1251	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1252	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1253	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1254	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1255	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1256	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1257	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1258	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1259	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1260	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1261	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1263	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1264	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1265	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1266	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1267	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1268	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1269	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1270	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1271	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1272	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1273	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1300	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1301	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1302	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1303	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1304	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1305	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1306	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1307	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1308	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1309	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1310	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1311	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1313	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1314	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1315	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1316	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1317	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1318	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1319	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1320	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1321	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1322	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1323	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1350	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1351	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1352	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1353	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1354	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1355	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1356	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1357	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1358	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1359	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1360	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1361	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1363	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1364	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1365	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1366	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1367	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1368	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1369	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1370	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1371	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1372	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1373	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1400	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1401	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1402	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1403	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1404	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1405	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1406	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1407	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1408	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1409	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1410	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1411	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1413	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1414	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1415	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1416	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1417	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1418	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1419	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1420	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1421	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1422	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1423	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1450	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1451	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1452	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1453	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1454	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1455	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1456	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1457	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1458	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1459	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1460	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1461	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1463	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1464	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1465	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1466	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1467	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1468	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1469	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1470	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1471	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1472	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1473	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1500	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1501	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1502	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1503	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1504	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1505	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1506	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1507	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1508	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1509	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1510	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1511	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1513	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1514	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1515	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1516	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1517	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1518	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1519	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1520	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1521	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1522	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1523	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1550	330K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3303V	
R1551	100 OHM, 1/8W, 0805, 1%	Yageo	RC0805FR-07100RL	
R1552	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R1553	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	
R1554	6.8K, 1/2W, 1210, 1%	Panasonic	ERJ-14NF6801U	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1555	200K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2003F	
R1556	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1557	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1558	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1559	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1560	39K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3902F	
R1561	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1563	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1564	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R1565	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1566	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1567	220 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD2200F	
R1568	820 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD8200F	
R1569	IND82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1570	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1571	82.5 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD82R5F	
R1572	19.1 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD19R1F	
R1573	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1600	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1601	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1602	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1603	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1604	11.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1132F	
R1605	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1606	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1607	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1608	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1609	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1610	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1611	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1612	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1613	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1614	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1615	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1616	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1617	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1618	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1650	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1651	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1652	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1653	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1654	11.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1132F	
R1655	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1656	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1657	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1658	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1659	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1660	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1661	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1662	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1663	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1664	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1665	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1666	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1667	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1668	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1700	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1701	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1702	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1703	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1704	11.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1132F	
R1705	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1706	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1707	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1708	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1709	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1710	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1711	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1712	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1713	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1714	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1715	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1716	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1717	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1718	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1750	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1751	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1752	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1753	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1754	11.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1132F	
R1755	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1756	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1757	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1758	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1759	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1760	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1761	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1762	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1763	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1764	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1765	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1766	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1767	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1768	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1800	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1801	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1802	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1803	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1804	11.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1132F	
R1805	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1806	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1807	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1808	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1809	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1810	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1811	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1812	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1813	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1814	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1815	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1816	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1817	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1818	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1850	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1851	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1852	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1853	1.91K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1911F	
R1854	11.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1132F	
R1855	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1856	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1857	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1858	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1859	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R1860	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1861	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1862	330 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD3300F	
R1863	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1864	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1865	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1866	91 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD91R0F	
R1867	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1868	2.7K, 1/10W, 0603, 1%	KOA	RK73H1JTDD2701F	
R1900	20 OHM, 1/10W 0603 1% T&R	KOA	RK73H1JTDD20R0F	
R1902	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1904	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1905	20 OHM, 1/10W 0603 1% T&R	KOA	RK73H1JTDD20R0F	
R1907	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1908	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R1909	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R1910	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R1911	100K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1003F	
R1912	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1950	20 OHM, 1/10W 0603 1% T&R	KOA	RK73H1JTDD20R0F	
R1952	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1954	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R1955	20 OHM, 1/10W 0603 1% T&R	KOA	RK73H1JTDD20R0F	
R1957	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R1958	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R1959	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R1960	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R1961	100K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1003F	
R1962	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2000	20 OHM, 1/10W 0603 1% T&R	KOA	RK73H1JTDD20R0F	
R2002	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2004	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2005	20 OHM, 1/10W 0603 1% T&R	KOA	RK73H1JTDD20R0F	
R2007	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2008	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R2009	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R2010	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R2011	100K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1003F	
R2012	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2050	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2051	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2052	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R2053	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2054	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R2055	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2056	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2100	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2101	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2102	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	

INPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R2103	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2104	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R2105	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2106	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2150	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2151	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2152	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R2153	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2154	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R2155	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2156	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2200	4.7 OHM, 1/2W, 1210, 1%	Panasonic	ERJ-14BQF4R7U	
R2201	4.7 OHM, 1/2W, 1210, 1%	Panasonic	ERJ-14BQF4R7U	
R2202	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2203	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2204	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2207	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2209	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2211	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2212	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2213	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2214	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2215	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2216	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2217	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R2218	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2219	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2220	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2221	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2222	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2223	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2224	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R2225	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	

Capacitors

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1000	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1001	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1002	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1003	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1004	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1005	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	

INPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1006	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1007	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1008	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1009	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1010	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1011	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1012	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1013	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1014	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1015	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1016	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1017	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1018	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1050	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1051	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1052	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1053	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1054	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1055	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1056	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1057	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1058	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1059	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1060	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1061	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1062	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1063	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1064	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1065	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1066	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1067	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1068	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1100	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1101	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1102	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1103	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1104	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1105	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1106	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1107	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1108	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1109	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1110	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	

INPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1111	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1112	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1113	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1114	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1115	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1116	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1117	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1118	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1150	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1151	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1152	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1153	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1154	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1155	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1156	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1157	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1158	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1159	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1160	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1161	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1162	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1163	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1164	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1165	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1166	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1167	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1168	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1200	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1201	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1202	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1203	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1204	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1205	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1206	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1207	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1208	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1209	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1210	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1211	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1212	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1213	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1214	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1215	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	

INPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1216	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1217	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1218	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1250	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1251	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1252	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1253	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1254	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1255	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1256	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1257	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1258	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1259	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1260	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1261	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1262	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1263	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1264	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1265	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1266	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1267	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1268	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1300	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1301	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1302	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1303	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1304	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1305	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1306	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1307	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1308	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1309	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1310	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1311	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1312	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1313	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1314	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1315	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1316	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1317	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1318	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1350	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1351	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	

INPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1352	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1353	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1354	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1355	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1356	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1357	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1358	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1359	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1360	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1361	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1362	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1363	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1364	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1365	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1366	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1367	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1368	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1400	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1401	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1402	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1403	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1404	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1405	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1406	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1407	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1408	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1409	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1410	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1411	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1412	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1413	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1414	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1415	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1416	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1417	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1418	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1450	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1451	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1452	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1453	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1454	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1455	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1456	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	

INPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1457	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1458	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1459	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1460	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1461	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1462	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1463	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1464	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1465	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1466	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1467	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1468	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1500	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1501	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1502	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1503	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1504	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1505	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1506	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1507	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1508	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1509	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1510	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1511	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1512	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1513	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1514	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1515	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1516	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1517	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1518	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1550	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1551	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1552	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1553	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1554	SMD, E 4.7UF, 63V, 20%, 40C	United	EMVA630ADA4R7ME55G	
C1555	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1556	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	
C1557	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1558	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1559	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1560	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1561	100PF, 50V, 5%, 0603	Murata	GRM1882C1H101JA01D	

INPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1562	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1563	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1564	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1565	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1566	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1567	SMD, E 100UF, 6.3V, 20%, 40C	United	EMVA6R3ADA101ME55G	
C1568	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1600	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1601	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1602	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1603	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1604	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1605	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1606	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1607	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1608	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1609	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1610	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1611	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1612	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1613	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1650	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1651	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1652	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1653	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1654	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1655	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1656	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1657	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1658	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1659	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1660	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1661	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1662	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1663	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1700	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1701	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1702	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1703	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1704	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1705	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1706	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1707	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	

INPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1708	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1709	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1710	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1711	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1712	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1713	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1750	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1751	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1752	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1753	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1754	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1755	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1756	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1757	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1758	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1759	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1760	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1761	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1762	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1763	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1800	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1801	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1802	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1803	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1804	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1805	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1806	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1807	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1808	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1809	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1810	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1811	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1812	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1813	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1850	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1851	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1852	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1853	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1854	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1855	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1856	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1857	COG, 820PF, 50V, 5%, 0603	Murata	GRM1885C1H821JA01D	
C1858	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	

INPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1859	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1860	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1861	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1862	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1863	47PF, 50V, 5%, 0603	Murata	GRM1882C1H470JA01D	
C1900	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1901	SMD, E 2.2UF, 50V, 20%, 55C	United	EMVY500ADA2R2MD55G	
C1902	SMD, E 2.2UF, 50V, 20%, 55C	United	EMVY500ADA2R2MD55G	
C1903	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1904	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C1905	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C1906	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1907	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1908	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1909	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1910	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C1911	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C1912	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1913	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1914	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1915	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1916	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1917	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1918	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1919	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1950	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1951	SMD, E 2.2UF, 50V, 20%, 55C	United	EMVY500ADA2R2MD55G	
C1952	SMD, E 2.2UF, 50V, 20%, 55C	United	EMVY500ADA2R2MD55G	
C1953	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C1954	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C1955	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C1956	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1957	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1958	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1959	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1960	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C1961	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C1962	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1963	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1964	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1965	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1966	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C1967	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	

INPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1968	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C1969	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C2000	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C2001	SMD, E 2.2UF, 50V, 20%, 55C	United	EMVY500ADA2R2MD55G	
C2002	SMD, E 2.2UF, 50V, 20%, 55C	United	EMVY500ADA2R2MD55G	
C2003	SMD, E 33UF, 25V, 20%, 55C	Panasonic	EEE-FT1E330AR	
C2004	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C2005	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C2006	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2007	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2008	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2009	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2010	B, 2700PF, 50V, 10%, 0603	Murata	GRM188B11H272KA01D	
C2011	NPO, 2.7NF, 50V, 5%, 0603	Murata	GRM1885C1H272JA01D	
C2012	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C2013	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C2014	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2015	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2016	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C2017	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2018	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2019	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C2050	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2051	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2052	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2100	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2101	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2102	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2150	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2151	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2152	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2200	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C2201	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2202	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2203	SMD, E 10UF, 16V, 20%, 55C	NIPPON	EMVY160ADA100MD55G	
C2204	Y5V ,0.1UF, 50V, 20%, 0603	Murata	GRM188F11H104ZA01D	
C2205	SMD, E 22UF, 63V, 20%, 55C	Panasonic	EEEFK1J220XP	
C2206	X7R, 10UF, 50V, 10%, 55C, 1210	Yageo	CC1210KKX7R9BB106	
C2207	X7R, 10UF, 50V, 10%, 55C, 1210	Yageo	CC1210KKX7R9BB106	

INPUT PCB PART LIST

Ferrite Beads

Reference Designator	Description	Vendor	Vendor Part Number	Note
FB1000	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1001	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1002	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1050	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1051	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1052	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1100	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1101	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1102	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1150	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1151	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1152	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1200	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1201	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1202	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1250	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1251	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1252	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1300	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1301	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1302	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1350	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1351	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1352	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1400	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1401	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1402	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1450	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1451	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1452	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1500	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1501	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1502	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1550	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB1551	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB1552	CHIP, IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	

INPUT PCB PART LIST

Diodes

Reference Designator	Description	Vendor	Vendor Part Number	Note
D1000	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1001	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1050	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1051	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1100	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1101	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1150	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1151	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1200	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1201	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1250	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1251	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1300	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1301	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1350	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1351	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1400	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1401	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1450	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1451	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1500	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1501	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1550	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D1551	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D2200	BAV70, 235, SOT-23	NXP Semi	BAV70,235	

Transistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
Q1001	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1051	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1101	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1151	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1201	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1251	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1301	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1351	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1401	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1451	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1501	MMBT2484LT1G, SOT-23	ON Semi	MMBT2484LT1G	
Q1550	MMBT2907ALT1G, SOT-23	ON Semi	MMBT2907ALT1G	

INPUT PCB PART LIST

Integrated Circuits

Reference Designator	Description	Vendor	Vendor Part Number	Note
U1000	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1001	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1050	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1051	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1100	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1101	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1150	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1151	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1200	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1201	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1250	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1251	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1300	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1301	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1350	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1351	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1400	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1401	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1450	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1451	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1500	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1501	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1550	SWITCH, QUAD, ADG451BRUZ, TSSOP	Analog Devices	ADG451BRUZ	
U1551	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1600	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1601	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1650	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1651	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1700	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1701	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1750	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1751	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1800	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1801	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	

INPUT PCB PART LIST

Integrated Circuits (continued)

U1850	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1851	NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U1900	ADC, AK5388AEQ	AKM Semi	AK5388AEQ	
U1950	ADC, AK5388AEQ	AKM Semi	AK5388AEQ	
U2000	ADC, AK5388AEQ	AKM Semi	AK5388AEQ	
U2050	I2C, BUS, PCA9505DGG, 118 TSSOP	NXP Semi	PCA9505DGG,118	
U2051	SINGLE2-INPUT, SN74LVC1G08DCKR, SC70	TI	SN74LVC1G08DCKRE4	
U2100	I2C, BUS, PCA9505DGG, 118 TSSOP	NXP Semi	PCA9505DGG,118	
U2101	SINGLE2-INPUT, SN74LVC1G08DCKR, SC70	TI	SN74LVC1G08DCKRE4	
U2150	I2C, BUS, PCA9505DGG, 118 TSSOP	NXP Semi	PCA9505DGG,118	
U2151	SINGLE2-INPUT, SN74LVC1G08DCKR, SC70	TI	SN74LVC1G08DCKRE4	
U2200	BA17805FP-E2	Rohm	BA17805FP-E2	

Miscellaneous

Reference Designator	Description	Vendor	Vendor Part Number	Note
J2203	FPC, CONN, 0.5MM PITCH	TE Conn.	4-1734839-0	
J2204	CONN, 6P, 1803316	Phoenix	1803316	
J2205	CONN, 6P, 1803316	Phoenix	1803316	
J2206	CONN, 6P, 1803316	Phoenix	1803316	
J2207	CONN, 6P, 1803316	Phoenix	1803316	
J2208	CONN, 6P, 1803316	Phoenix	1803316	
J2209	CONN, 6P, 1803316	Phoenix	1803316	
-	MOUNTING BRACKET, BSE30A1, M3 THREAD	Keystone	7790	Qty.2

OUTPUT PCB PART LIST

Resistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
R100	0 OHM, 1A, 0603	KOA	RK73Z1JTTD	
R101	0 OHM, 1A, 0603	KOA	RK73Z1JTTD	
R102	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R103	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R104	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R105	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R106	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R107	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R108	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R109	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R110	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD47R0F	
R111	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD47R0F	
R114	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1004F	
R115	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1004F	
R116	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R117	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R118	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD10R0F	
R120	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTTD33R0F	
R121	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTTD33R0F	
R122	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1203F	
R123	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1203F	
R150	0 OHM, 1A, 0603	KOA	RK73Z1JTTD	
R151	0 OHM, 1A, 0603	KOA	RK73Z1JTTD	
R152	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R153	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R154	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R155	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R156	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R157	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R158	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R159	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R160	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD47R0F	
R161	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD47R0F	
R164	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1004F	
R165	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1004F	
R166	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R167	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R168	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD10R0F	
R169	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD10R0F	
R170	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTTD33R0F	
R171	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTTD33R0F	
R172	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1203F	
R173	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1203F	

OUTPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R200	0 OHM, 1A, 0603	KOA	RK73Z1JTTD	
R201	0 OHM, 1A, 0603	KOA	RK73Z1JTTD	
R202	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R203	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R204	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R205	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R206	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R207	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R208	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R209	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R210	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD47R0F	
R211	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD47R0F	
R214	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1004F	
R215	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1004F	
R216	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R217	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R218	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD10R0F	
R219	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD10R0F	
R220	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTTD33R0F	
R221	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTTD33R0F	
R222	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1203F	
R223	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1203F	
R250	0 OHM, 1A, 0603	KOA	RK73Z1JTTD	
R251	0 OHM, 1A, 0603	KOA	RK73Z1JTTD	
R252	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R253	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R254	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R255	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R256	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R257	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R258	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R259	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD4991F	
R260	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD47R0F	
R261	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD47R0F	
R264	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1004F	
R265	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1004F	
R266	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R267	10K, 1/10W, 0603, 1%	KOA	RK73H1JTTD1002F	
R268	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD10R0F	
R269	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD10R0F	
R270	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTTD33R0F	
R271	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTTD33R0F	
R272	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTTD1203F	

OUTPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R273	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R300	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R301	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R302	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R303	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R304	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R305	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R306	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R307	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R308	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R309	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R310	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD47R0F	
R311	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD47R0F	
R314	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R315	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R316	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R317	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R318	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD10R0F	
R319	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD10R0F	
R320	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R321	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R322	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R323	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R350	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R351	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R352	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R353	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R354	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R355	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R356	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R357	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R358	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R359	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R360	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD47R0F	
R361	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD47R0F	
R364	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R365	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R366	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R367	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R368	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD10R0F	
R369	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD10R0F	
R370	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R371	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	

OUTPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R372	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R373	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R400	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R401	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R402	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R403	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R404	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R405	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R406	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R407	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R408	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R409	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R410	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD47R0F	
R411	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD47R0F	
R414	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R415	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R416	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R417	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R418	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD10R0F	
R419	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD10R0F	
R420	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R421	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R422	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R423	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R450	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R451	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R452	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R453	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R454	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R455	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R456	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R457	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R458	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R459	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R460	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD47R0F	
R461	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD47R0F	
R464	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R465	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R466	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R467	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R468	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD10R0F	
R469	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD10R0F	
R470	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	

OUTPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R471	33 OHM, 1/10W, 0603, 1%	KOA	RK73H1JTDD33R0F	
R472	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R473	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R500	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R501	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R502	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R503	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R504	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R505	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R506	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R507	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R508	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R509	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R510	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R511	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R512	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R513	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R514	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R515	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R516	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R517	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R518	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R519	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R520	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R521	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R522	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R523	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R524	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R525	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R526	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R527	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R528	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R529	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R534	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R535	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R536	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R537	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R550	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R551	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R552	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R553	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R554	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R555	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	

OUTPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R556	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R557	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R558	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R559	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R560	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R561	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R562	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R563	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R564	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R565	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R566	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R567	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R568	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R569	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R570	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R571	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R572	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R573	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R574	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R575	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R576	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R577	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R578	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R579	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R584	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R585	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R586	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R587	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R600	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R601	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R602	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R603	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R604	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R605	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R606	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R607	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R608	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R609	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R610	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R611	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R612	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R613	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R614	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R615	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	

OUTPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R616	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R617	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R618	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R619	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R620	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R621	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R622	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R623	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R624	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R625	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R626	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R627	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R628	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R629	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R634	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R635	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R636	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R637	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R650	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R651	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R652	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R653	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R654	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R655	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R656	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R657	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R658	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R659	1.69K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1691V	
R660	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R661	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R662	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R663	130 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1300F	
R664	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R665	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R666	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R667	549 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF5490V	
R668	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R669	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R670	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R671	3.3K, 1/10W, 0603, 1%	KOA	RK73H1JTDD3301F	
R672	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R673	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R674	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	

OUTPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R675	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R676	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R677	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R678	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R679	866 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF8660V	
R684	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R685	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R686	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R687	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R700	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R702	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R703	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R704	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R706	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R707	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R708	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R709	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R713	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R714	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R715	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R750	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R752	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R753	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R754	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R756	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R757	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R758	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R759	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R763	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R764	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R765	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R800	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R801	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R802	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R803	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R805	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R806	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R807	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R809	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R811	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R812	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R813	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R814	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	

OUTPUT PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R816	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R817	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R850	47 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD47R0F	
R851	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R852	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R853	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R854	330K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD3303F	
R855	330K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD3303F	
R856	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R857	1M, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1004F	
R858	120K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD1203F	
R859	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R860	4.99K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD4991F	
R861	330K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD3303F	
R862	330K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD3303F	
R863	20K, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD2002F	
R900	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R901	4.7 OHM, 1/2W, 1210, 1%	Panasonic	ERJ-14BQF4R7U	
R902	4.7 OHM, 1/2W, 1210, 1%	Panasonic	ERJ-14BQF4R7U	
R903	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R913	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R914	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R915	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R916	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R917	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
R918	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R919	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R920	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R921	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R922	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R923	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R923	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R924	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R925	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R926	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
R927	10K, 1/10W, 0603, 1%	KOA	RK73H1JTDD1002F	
RR119	10 OHM, 1/10W, 0603, 1%, T&R	KOA	RK73H1JTDD10R0F	

OUTPUT PCB PART LIST

Capacitors

Reference Designator	Description	Vendor	Vendor Part Number	Note
C102	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C103	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C104	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C105	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C106	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C107	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C108	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C109	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C110	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C111	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C112	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C113	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C114	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C115	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C152	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C153	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C154	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C155	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C156	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C157	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C158	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C159	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C160	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C161	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C162	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C163	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C164	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C165	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C202	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C203	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C204	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C205	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C206	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C207	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C208	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C209	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C210	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C211	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C212	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C213	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C214	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C215	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C252	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	

OUTPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C253	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C254	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C255	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C256	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C257	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C258	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C259	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C260	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C261	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C262	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C263	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C264	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C265	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C302	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C303	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C304	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C305	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C306	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C307	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C308	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C309	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C310	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C311	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C312	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C313	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C314	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C315	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C352	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C353	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C354	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C355	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C356	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C357	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C358	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C359	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C360	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C361	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C362	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C363	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C364	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C365	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C402	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C403	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	

OUTPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C404	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C405	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C406	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C407	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C408	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C409	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C410	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C411	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C412	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C413	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C414	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C415	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C452	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C453	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C454	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C455	NPO, 22PF, 50V, 5%, 0603	Murata	GRM1885C1H220JA01D	
C456	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C457	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C458	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C459	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C460	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C461	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C462	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C463	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C464	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C465	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C500	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C501	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C502	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C503	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C504	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C505	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C506	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C507	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C508	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C509	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C510	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C511	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C512	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C513	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C514	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C515	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C516	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	

OUTPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C517	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C518	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C519	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C520	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C521	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C522	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C523	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C524	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C525	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C526	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C527	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C550	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C551	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C552	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C553	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C554	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C555	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C556	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C557	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C558	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C559	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C560	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C561	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C562	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C563	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C564	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C565	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C566	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C567	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C568	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C569	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C570	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C571	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C572	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C573	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C574	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C575	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C576	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C577	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C600	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C601	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C602	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C603	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	

OUTPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C604	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C605	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C606	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C607	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C608	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C609	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C610	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C611	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C612	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C613	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C614	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C615	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C616	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C617	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C618	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C619	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C620	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C621	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C622	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C623	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C624	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C625	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C626	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C627	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C650	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C651	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C652	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C653	E CAP, 22UF, 6.3V, 20%, 55C, T&R	Nichicon	UWT0J220MCL1GB	
C654	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C655	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C656	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C657	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C658	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C659	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C660	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C661	COG, 0.012UF, 25V, 5%, 0603	Kemet	C0603C123J3GACTU	
C662	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C663	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C664	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C665	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C666	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C667	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C668	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	

OUTPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C669	NPO, 3.6NF, 50V, 5%, 0603	Murata	GRM1885C1H362JA01D	
C670	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C671	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C672	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C673	NPO, 1.8NF, 50V, 5%, 0603	Murata	GRM1885C1H182JA01D	
C674	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C675	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C676	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C677	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C700	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C701	X7R, 10UF, 50V, 10%, 55C, 1210, T&R	Yageo	CC1210KKX7R9BB106	
C702	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C703	X7R, 10UF, 50V, 10%, 55C, 1210, T&R	Yageo	CC1210KKX7R9BB106	
C704	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C705	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C706	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C707	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C708	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C709	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C710	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C711	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C712	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C713	E CAP, 470UF, 16V, 20%, T&R	Nichicon	UCL1C471MNL1GS	
C714	E CAP, 470UF, 16V, 20%, T&R	Nichicon	UCL1C471MNL1GS	
C715	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C716	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C750	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C751	X7R, 10UF, 50V, 10%, 55C, 1210, T&R	Yageo	CC1210KKX7R9BB106	
C752	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C753	X7R, 10UF, 50V, 10%, 55C, 1210, T&R	Yageo	CC1210KKX7R9BB106	
C754	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C755	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C756	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C757	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C758	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C759	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C760	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C761	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C762	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C763	E CAP, 470UF, 16V, 20%, T&R	Nichicon	UCL1C471MNL1GS	
C764	E CAP, 470UF, 16V, 20%, T&R	Nichicon	UCL1C471MNL1GS	
C765	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	
C766	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	

OUTPUT PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C800	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C801	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C802	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C803	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C804	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C805	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C806	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C807	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C850	E CAP, 330UF, 25V, 20%, 40C, T&R	United	EMVA250ADA331MHA0G	
C851	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C852	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C853	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C854	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C856	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C857	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C858	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C900	E CAP, 33UF, 25V, 20%, 55C, T&R	Panasonic	EEE-FT1E330AR	
C901	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C902	Y5V, 0.1UF, 50V, 20%, 0603, T&R	Murata	GRM188F11H104ZA01D	
C903	E CAP, 10UF, 16V, 20%, 55C, T&R	United	EMVY160ADA100MD55G	

Inductors

Reference Designator	Description	Vendor	Vendor Part Number	Note
FB100	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB101	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB102	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB150	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB151	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB152	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB200	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB201	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB202	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB250	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB251	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB252	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB300	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB301	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB302	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB350	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB351	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB352	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB400	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	

OUTPUT PCB PART LIST

Inductors (continued)

FB401	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB402	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	
FB450	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB451	IND, 1K, 25%, 0603	Taiyo Yud	BK1608HS102-T	
FB452	0 OHM, 1A, 0603	KOA	RK73Z1JTDD	

Diodes

Reference Designator	Description	Vendor	Vendor Part Number	Note
D100	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D101	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D150	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D151	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D200	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D201	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D250	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D251	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D300	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D301	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D350	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D351	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D400	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D401	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D450	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D451	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D850	BAV70, 235, SOT-23	NXP	BAV70,235	
D851	BAV70, 235, SOT-23	NXP	BAV70,235	
D852	BAV70, 235, SOT-23	NXP	BAV70,235	
D853	BAV70, 235, SOT-23	NXP	BAV70,235	
D854	BAV99LT1G, SOT-23	ON Semi	BAV99LT1G	
D900	BAV70, 235, SOT-23	NXP	BAV70,235	

Transistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
Q100	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q101	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q102	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q103	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q104	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q105	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q150	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q151	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q152	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q153	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	

OUTPUT PCB PART LIST

Transistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
Q154	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q155	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q200	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q201	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q202	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q203	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q204	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q205	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q250	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q251	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q252	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q253	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q254	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q255	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q300	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q301	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q302	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q303	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q304	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q305	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q350	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q351	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q352	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q353	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q354	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q355	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q400	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q401	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q402	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q403	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q404	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q405	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q450	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q451	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q452	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q453	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q454	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q455	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q500	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q501	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q502	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q503	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q504	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	

OUTPUT PCB PART LIST

Transistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
Q505	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q550	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q551	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q552	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q553	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q554	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q555	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q600	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q601	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q602	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q603	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q604	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q605	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q650	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q651	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q652	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q653	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q654	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q655	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q850	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q851	MOSFET, N-CH, 2N7002K-T1-E3, SOT-23	Vishay	2N7002K-T1-E3	
Q852	MMBT3906LT1G, SOT-23	ON Semi	MMBT3906LT1G	

Integrated Circuits

Reference Designator	Description	Vendor	Vendor Part Number	Note
U100	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U150	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U200	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U250	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U300	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U350	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U400	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U450	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U500	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U501	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U502	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U503	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U550	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U551	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U552	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U553	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U600	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	

OUTPUT PCB PART LIST

Integrated Circuits (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
U601	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U602	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U603	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U650	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U651	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U652	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U653	OP-AMP, NJM4580E-TE1-#ZZZB, EMP8	NJRC	NJM4580E-TE1	
U700	DAC, AK4413EQ, LQFP	AKM Semi	AK4413EQ	
U750	DAC, AK4413EQ, LQFP	AKM Semi	AK4413EQ	
U800	I2C BUS, PCA9534PW, 118 TSSOP16	NXP	PCA9534PW,118	
U801	2-INPUT, SN74LVC1G08DCKR, SC70	TI	SN74LVC1G08DCKRE4	
U802	2-INPUT, SN74LVC1G08DCKR, SC70	TI	SN74LVC1G08DCKRE4	
U803	SINGLE INV, SN74LVC1G04DCKR, SC-70	TI	SN74LVC1G04DCKR	
U804	I2C BUS, PCA9534PW, 118 TSSOP16	NXP	PCA9534PW,118	
U805	2-INPUT, SN74LVC1G08DCKR, SC70	TI	SN74LVC1G08DCKRE4	
U806	2-INPUT, SN74LVC1G08DCKR, SC70	TI	SN74LVC1G08DCKRE4	
U807	SINGLE INV, SN74LVC1G04DCKR, SC-70	TI	SN74LVC1G04DCKR	
U900	BA17805FP-E2	Rohm Semi	BA17805FP-E2	

Miscellaneous

Reference Designator	Description	Vendor	Vendor Part Number	Note
J100	CONN, 6P	Phoenix	1701044	
J200	CONN, 6P	Phoenix	1701044	
J300	CONN, 6P	Phoenix	1701044	
J400	CONN, 6P	Phoenix	1701044	
J902	CONN, 40P, 40FLT-SM2-TB(LF)(SN)	JST	40FLT-SM2-TB(JST)	
-	MTG BRACKET, BSE30A1, M3 THREAD	Keystone	7790	

POWER SUPPLY PCB PART LIST

Resistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1	560 OHM, 1/4W, 1206, 1%	Yageo	RC1206FR-07560RL	
R2	22 OHM, 1/4W, 1206, 1%	Yageo	RC1206FR-0722RL	
R3	20 OHM, 1W, 2512, 1%	Vishay-Dale	CRCW251220R0FKEG	
R4	10K, 1W, 2512, 5%	KOA	RK73H3ATTE1002F	
R5	100K, 2512, 1%	Stackpole	RHC2512FT100K	
R6	100K, 2512, 1%	Stackpole	RHC2512FT100K	
R7	2M, 1/4W, 1206, 1%	Yageo	RC1206FR-072ML	
R8	1.54M, 1/4W, 1206, 1%	Yageo	RC1206FR-071M54L	
R10	22 OHM, 1/4W, 1206, 1%	Yageo	RC1206FR-0722RL	
R11	390 OHM, 1/4W, 1206, 1%	Yageo	RC1206FR-07390RL	
R12	1K, 1/4W, 1206, 1%	KOA SPEER	RK73H2BTDD1001F	
R13	4.99K, 1/4W, 1206, 1%	Yageo	RC1206FR-074K99L	
R14	4.99K, 1/4W, 1206, 1%	Yageo	RC1206FR-074K99L	
R15	9.09K, 1/10W, 0603, 1%	Yageo	RC0603FR-079K09L	
R17	6.81 OHM, 1/10W, 0603, 1%	Yageo	RC0603FR-076R81L	
R18	1K, 1/10W, 0603, 1%	Yageo	RC0603FR-071KL	
R20	28K, 1/4W, 1206, 1%	Yageo	RC1206FR-0728KL	
R21	4.53K, 1/4W, 1206, 1%	Yageo	RC1206FR-074K53L	
R22	1 OHM, 1/4W, 1206, 1%	Yageo	RC1206FR-071RL	
R23	1 OHM, 1/4W, 1206, 1%	Yageo	RC1206FR-071RL	
R24	2.67K, 1/10W, 0603, 1%	Yageo	RC0603FR-072K67L	
R25	2.67K, 1/10W, 0603, 1%	Yageo	RC0603FR-072K67L	
R26	249 OHM, 1/10W, 0603, 1%	Yageo	RC0603FR-07249RL	
R27	249 OHM, 1/10W, 0603, 1%	Yageo	RC0603FR-07249RL	
R28	1M, 1/4W, 1206, 1%	Yageo	RC1206FR-071ML	
R29	1M, 1/4W, 1206, 1%	Yageo	RC1206FR-071ML	
R30	100K, 2512, 1%	Stackpole	RHC2512FT100K	
R31	100K, 2512, 1%	Stackpole	RHC2512FT100K	
R32	20 OHM, 1W, 2512, 1%	Vishay-Dale	CRCW251220R0FKEG	
R35	49.9K, 1/10W, 0603, 1%	Yageo	RC0603FR-0749K9L	
R38	2K, 1/10W, 0603, 1%	Yageo	RC0603FR-072KL	
R39	3.32K, 1/10W, 0603, 1%	Yageo	RC0603FR-073K32L	
R40	1.69K, 1/10W, 0603, 1%	Yageo	RC0603FR-071K69L	
R41	1M, 1/4W, 1206, 1%	Yageo	RC1206FR-071ML	
R42	1M, 1/4W, 1206, 1%	Yageo	RC1206FR-071ML	
R43	100K, 1/10W, 0603, 1%	Yageo	RC0603FR-07100KL	
R44	10K, 1/10W, 0603, 1%	Yageo	RC0603FR-0710KL	
R45	20 OHM, 1W, 2512, 1%	Vishay-Dale	CRCW251220R0FKEG	
R46	4.99K, 1/10W, 0603, 1%	Yageo	RC0603FR-074K99L	
R47	10K, 1/10W, 0603, 1%	Yageo	RC0603FR-0710KL	


POWER SUPPLY PCB PART LIST

Capacitors


Reference Designator	Description	Vendor	Vendor Part Number	Note
C1	CER, 2.2NF, 250V, 20%, D11.5	TDK	CD12-E2GA222MYNS	
C2	CER, 2.2NF, 250V, 20%, D11.5	TDK	CD12-E2GA222MYNS	
C3	CER, 2.2NF, 250V, 20%, D11.5	TDK	CD12-E2GA222MYNS	
C4	MET PP, 0.47UF, UL/CSA, 305V, 20%	Epcos	B32922C3474M000	
C5	NPO, 470PF, 50V, 5%, 125C, 0603	Murata	GRM1885C1H471JA01D	
C6	SMT, 1206, 47PF, 1000 volt, C0G, 5%	Murata	GRM31A5C3A470JW01D	
C7	SMD, E, 33UF, 63V +/-20%, 105C	UCC	EMZA630ADA330MHA0G	
C8	SMD, E, 100UF, 63V +/-20%, 105C	UCC	EMVE630ADA101MJA0G	
C9	E, 150UF, 400V, 20%, 105C, D25.4	UCC	EKMQ401VSN151MQ25W	
C10	SMT, 1206, 3300pF, 1000V, 10%	Kemet	C1206C332KDRCTU	
C11	SMD, E, 10uF, 35V, 20%, 105C	NIPPON	EMVE350ADA100ME55G	
C14	E, 1500UF, 25V, 20%, 105C, D12.5	UCC	EKZE250ELL152MK25S	
C15	E, 1500UF, 25V, 20%, 105C, D12.5	UCC	EKZE250ELL152MK25S	
C16	NPO, 27pF, 50V, 5%, 125C, 0603	Murata	GRM1885C1H270JA01D	
C17	NPO, 27pF, 50V, 5%, 125C, 0603	Murata	GRM1885C1H270JA01D	
C18	SMD E, 470UF, 25V, 20%, 105C	United Chemi	EKZE250ELL471MH20D	
C19	SMD E, 470UF, 25V 20%, 105C	United Chemi	EKZE250ELL471MH20D	
C20	SMD, E, 100UF, 25V, 20%, 105C	UCC	EMVY250ADA101MF80G	
C21	SMD, E, 100UF, 25V, 20%, 105C	UCC	EMVY250ADA101MF80G	
C22	SMD, E, 100UF, 25V, 20%, 105C	UCC	EMVY250ADA101MF80G	
C23	X7R, 100NF, 50V, 10%, 0603	Murata	GRM188R71H104KA93D	
C24	SMD, E, 47UF, 35V, 20%, 105C	Nichicon	UUD1V470MCL1GS	
C25	X7R, 1NF, 50V,10%, 0603	Murata	GRM188R71H102KA01D	
C26	X7R, 4.7UF, 25V, 10%, 1206	Murata	GRM31CR71E475KA88L	
C27	X7R, 4.7UF, 25V, 10%, 1206	Murata	GRM31CR71E475KA88L	
C28	SMT, 0805, 1uF, 25V, X7R, 10%	Murata	GRM21BR71E105KA99L	
C29	SMT, 0805, 1uF, 25V, X7R, 10%	Murata	GRM21BR71E105KA99L	
C30	SMT, 1206, 47pF, 1000 volt, C0G, 5%	Murata	GRM31A5C3A470JW01D	
C31	X7R, 100NF, 50V, 10%, 0603	Murata	GRM188R71H104KA93D	
C32	X7R, 100NF, 50V, 10%, 0603	Murata	GRM188R71H104KA93D	
C33	X7R, 100NF, 50V, 10%, 0603	Murata	GRM188R71H104KA93D	
C34	X7R, 100NF, 50V, 10%, 0603	Murata	GRM188R71H104KA93D	
C35	SMT, 0805, 0.33uF, 25V, X7R, 10%	Murata	GRM21BR71E334KA01L	
C36	X7R, 100NF, 50V, 10%, 0603	Murata	GRM188R71H104KA93D	
C37	X7R, 100NF, 50V, 10%, 0603	Murata	GRM188R71H104KA93D	
C38	SMT, 1206, 47pF, 1000 volt, C0G, 5%	Murata	GRM31A5C3A470JW01D	
C39	X7R, 0.1UF, 630V, 10%, 1808	Kemet	C1808X104KBRCTU	
C40	X7R, 100NF, 50V, 10%, 0603	Murata	GRM188R71H104KA93D	
C41	X7R, 100NF, 50V, 10%, 0603	Murata	GRM188R71H104KA93D	
C42	X7R, 0.1UF, 630V, 10%, 1808	Kemet	C1808X104KBRCTU	
C43	CER, 2.2NF, 250V, 20%, D11.5	TDK	CD12-E2GA222MYNS	
C44	SMD, E, 10UF, 35V, 20%, 105C	UCC	EMVE350ADA100ME55G	

POWER SUPPLY PCB PART LIST

Diodes

Reference Designator	Description	Vendor	Vendor Part Number	Note
BR1	SMT RECTIFIER, DF06S, SDIP	Fairchild	DF06S	3 
D1	SMT, FAST RECOVERY, ES1G, SMA	Fairchild	ES1G	
D2	SMT, RECTIFIER, ES1D, SMA	Fairchild	ES1D	
D3	SMT, FAST RECOVERY, US1M-13-F, SMA	Diodes, Inc.	US1M-13-F	
D5	SMT, RECTIFIER, ES1D, SMA	Fairchild	ES1D	
D6	SMT, RECTIFIER, ES1D, SMA	Fairchild	ES1D	
D7	SMT, ZENER 30V, 350MW +/-2V, SOT-23	Diodes, Inc.	BZX84C30-7-F	
D8	SMT, SW, BAV99-7-F, SOT-23	Diodes, Inc.	BAV99-7-F	
D9	SMT, SW, BAV99-7-F, SOT-23	Diodes, Inc.	BAV99-7-F	
D10	SMT, RECTIFIER, ES1D, SMA	Fairchild	ES1D	
D11	SMT, SW, BAV99-7-F, SOT-23	Diodes, Inc.	BAV99-7-F	
D12	SMT, SW, BAV99-7-F, SOT-23	Diodes, Inc.	BAV99-7-F	

Inductors

Reference Designator	Description	Vendor	Vendor Part Number	Note
L1	POWER LINE CHOKES, B82732R2142B30	Epcos	B82732R2142B30	3 
L2	CHIP, INDUCTOR, 3.3UH +/-30%	TDK	SLF10165T-3R3N5R83PF	
L3	SMT, Inductor, 3.3uH	TDK	VLCF5020T-3R3N2R0-3	
L4	SMT, Inductor, 3.3uH	TDK	VLCF5020T-3R3N2R0-3	

Transistors






Reference Designator	Description	Vendor	Vendor Part Number	Note
Q1	SMT, MOSFET, 100V, 23mOhm@10V, 11.1A, N-Ch, MV, T-FET	Vishay-Siliconix	SI4056DY-T1-GE3	

Integrated Circuits

Reference Designator	Description	Vendor	Vendor Part Number	Note
U1	OFFLINE SW, TOP268KG-TL, ESOP	Power Integ.	TOP268KG	
U2	OPTO-COUPLER, FOD817DSD, 4-PIN, SMD	Fairchild	FOD817DSD	
U3	REG, LM317MDTX, D-PAK	Fairchild	LM317MDTX	
U4	Voltage Reg, Negative, 3-terminal, Adjustable, LM337M	ST Micro	LM337MDT-TR	
U4	REG, LM337KVURG3, TO-252	TI	LM337KVURG3	
U5	IC, Synchronous Rectifier Controller	Diodes, Inc.	ZXGD3101N8TC	
VR1	Shunt Regulator, Adjustable, SOT-23	TI	TL431ACDBZR	

POWER SUPPLY PCB PART LIST

Diodes

Reference Designator	Description	Vendor	Vendor Part Number	Note
F1	Fuse - Add part #(s) for Fuse Clips	Littlefuse	56000001009	3 
FR?	PCB RADIAL FUSE, 250V, 1.25A	Littlefuse	37211250411	3 
MOV1	VARISTOR, 300V, V300LA10P	Littlefuse	V300LA10P	3 
NTC1	NTC THERMISTOR, B57153S0100M000	Epcos	B57153S0100M000	3 
PL1	HEADER, 8P, B8B-XH-AM(LF)(SN)	JST	B8B-XH-AM(LF)(SN)	
SK1	JACK, GSP1.9103.1	Schurter	GSP1.9103.1	
TR1	XFMR, TOPSW, +/-18V, +8V, +48V, 40W	RENCO ELEC	RL-10173 / S005110	3 

PSTN PCB PART LIST

Resistors



Reference Designator	Description	Vendor	Vendor Part Number	Note
R1	THICK FC, 0 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3GEY0R00V	
R2	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R4	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R5	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R6	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R7	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R8	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R9	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R10	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R11	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R12	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R13	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R14	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R15	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R17	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R18	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R20	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R22	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R23	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R24	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R25	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R26	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R27	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R28	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R29	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R30	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R33	THICK FC, 200K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF2003V	
R34	THICK FC, 0 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3GEY0R00V	
R35	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R36	THICK FC, 0 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3GEY0R00V	
R37	THICK FC, 0 OHM, 1/10W, 0603, 1%	Panasonic	ERJ-3GEY0R00V	
R38	THICK FC, 332 Ohm, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3320V	
R39	THICK FC, 2.2K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF2201V	
R40	THICK FC, 2.2K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF2201V	
R41	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R42	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R43	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R44	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	
R45	THICK FC, 332 Ohm, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3320V	
R46	THICK FC, 332 Ohm, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF3320V	
R47	THICK FC, 536 Ohm, 1/4W, 1206, 1%	Panasonic	ERJ-8ENF5360V	
R48	THICK FC, 1210, 1.07K, 1%	Panasonic	ERJ-14NF1071U	
R49	THICK FC, 1210, 3.65K, 1%	Panasonic	ERJ-14NF3651U	

PSTN PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R50	THICK FC, 1210, 73.2 Ohm, 1%	Panasonic	ERJ-14NF73R2U	
R51	THICK FC, 100K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1003V	
R52	THICK FC, 0603, 150 Ohm, 1%	Panasonic	ERJ-3EKF1500V	
R53	THICK FC, 1210, 2.49K, 1%	Panasonic	ERJ-14NF2491U	
R54	THICK FC, 0603, 56 Ohm, 1%	Samsung	RC1608F560CS	
R55	THICK FC, 100K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1003V	
R56	THICK FC, 0603, 56 Ohm, 1%	Samsung	RC1608F560CS	
R57	THICK FC, 1M, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1004V	
R58	THICK FC, 1/8W, 5.1M, 1%	Vishay/Dale	CRCW08055M10FKEA	
R59	THICK FC, 0805, 15M, 5%	Stackpole	RMCF0805JT15M0	
R60	THICK FC, 1/8W, 5.1M, 1%	Vishay/Dale	CRCW08055M10FKEA	
R61	THICK FC, 0805, 15M, 5%	Stackpole	RMCF0805JT15M0	
R62	THICK FC, 1K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1001V	
R63	THICK FC, 10K, 1/10W, 0603, 1%	Panasonic	ERJ-3EKF1002V	

Capacitors

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1	X5R, 1UF, 10V, 10% 85C, 0603	TDK	C1608X5R1A105K080AC	
C3	X5R, 1UF, 10V, 10% 85C, 0603	TDK	C1608X5R1A105K080AC	
C4	0603, 18Pf, 50V, 5%, NPO	TDK	C1608C0G1H180J	
C5	0603, 18Pf, 50V, 5%, NPO	TDK	C1608C0G1H180J	
C6	X5R, 1UF, 10V, 10% 85C, 0603	TDK	C1608X5R1A105K080AC	
C7	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C8	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C9	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C10	0603, 2.7Nf, 50V, 10%, X7R	Samsung	CL10B272KB8NNNC	
C11	X7R, 1UF, 50V, 10%, 0805	TDK	C2012X7R1H105K085AC	
C12	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C13	Y3, 33PF, 5KV, 10%, 2211	Novacap	ES2211N330K502NT	
C14	Y3, 33PF, 5KV, 10%, 2211	Novacap	ES2211N330K502NT	
C15	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C16	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C17	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C18	0805, 3.9NF, 250V, 10%, X7R	AVX	0805PC392KAT1A	
C19	0805, 100PF, 600VAC, 10%, X7R	AVX	0805CA101KAT1A	
C20	2211, 680PF, 5KV, 10%, Y3	Novacap	ES2211N681K502NTM	3 
C21	0805, 100PF, 600VAC, 10%, X7R	AVX	0805CA101KAT1A	
C22	2211, 680PF, 5KV, 10%, Y3	Novacap	ES2211N681K502NTM	3 
C23	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	

PSTN PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C24	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C25	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C26	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C27	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C28	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C29	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C30	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C31	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C32	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C33	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C34	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C35	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C36	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C37	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C38	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C39	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C40	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C41	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C42	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C43	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C44	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C45	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C46	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C47	0603, 4.7Uf, 6.3V, 20%, X5R	Kemet	C0603C475K9PACTU	
C49	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C50	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C51	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C52	X7R, 1NF, 50V, 10%, 125C, 0603	AVX	06035C102KAT2A	
C53	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C54	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C55	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C56	X7R, 10NF, 50V, 10%, 125C, 0603	AVX	06035C103KAT2A	
C57	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C58	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C59	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C60	X7R, 0.1UF, 16V, 10%, 125C, 0603	AVX	0603YC104KAT2A	
C61	X5R, 10UF, 6.3V, 10%, 0805	Kemet	C0805C106K9PACTU	
C62	X5R, 10UF, 6.3V, 10%, 0805	Kemet	C0805C106K9PACTU	
C63	0603, 82NF, 16V, 10%, X7R	AVX	0603YC823KAT2A	
C64	X5R, 10UF, 6.3V, 10%, 0805	Kemet	C0805C106K9PACTU	
C65	X5R, 10UF, 6.3V, 10%, 0805	Kemet	C0805C106K9PACTU	
C66	X5R, 10UF, 6.3V, 10%, 0805	Kemet	C0805C106K9PACTU	

PSTN PCB PART LIST

Inductors

Reference Designator	Description	Vendor	Vendor Part Number	Note
L1	FERRITE BEAD, 600 OHM, 25% 300MA	Steward	HZ0603C601R-10	
L2	FERRITE BEAD, 0603, 470 OHM, 100mA	Steward	BLM18HD471SN1D	
L3	FERRITE BEAD, 0603, 470 OHM, 100mA	Steward	BLM18HD471SN1D	
L4	CHIP INDUCTOR, 1UH, 20%, Q=6, 1008	Murata	LQM2HPN1R0MG0L	
L5	CHIP INDUCTOR, 1UH, 20%, Q=6, 1008	Murata	LQM2HPN1R0MG0L	

Diodes

Reference Designator	Description	Vendor	Vendor Part Number	Note
D1	SMT DIODE, 1N4148WS-7-F	Diodes Inc	1N4148WS-7-F	
D2	LED, GREEN, 3x2MM, SMT	Kingbright Corp	AA3021ACGCK	
D3	LED, GREEN, 3x2MM, SMT	Kingbright Corp	AA3021ACGCK	
D4	SMT DIODE, BZT52C43-7-F, SOD123	Diodes Inc	BZT52C43-7-F	
DB1	SMT DIODE, MB6S-TP	Micro Comm	MB6S-TP	


Transistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
Q1	NPN, 300V, 500MA, SOT-23, MMBTA42LT1G	On Semi	MMBTA42LT1G	
Q2	SMT, MMBT8099LT1G, SOT23D3	On Semi	MMBT8099LT1G	
Q3	SMT DIODE, MMBTA92-7-F, SOT-23	Diodes Inc.	MMBTA92-7-F	
Q4	SMT, MMBT8099LT1G, SOT23D3	On Semi	MMBT8099LT1G	
Q5	NPN, 300V, 500MA, SOT-23, MMBTA42LT1G	On Semi	MMBTA42LT1G	

Integrated Circuits

Reference Designator	Description	Vendor	Vendor Part Number	Note
U1	DSP, DSC, ADSP-BF706BCPZ-4	ADI	ADSP-BF706BCPZ-4	
U2	4-Pin MPU SUPRVISR, 240ms, -0.3 to 7V	Diodes Inc.	APX811-31UG-7	
U3	SPI FLASH, 1MB, AT25SF081-SSHD-B, SOIC8	Adesto	AT25SF081-SSHD-B	
U4	SI3050-E1-FT, TSSOP 20	Silicon Labs	SI3050-E1-FT	
U5	SI3019-F-FS, SOIC 16	Silicon Labs	SI3019-F-FS	
U6	P3100SCLRP, DO214AA	Teccor	P3100SCLRP	
U7	SC4626ASKTRT, SOT23D5	Semtech	SC4626ASKTRT	
U8	SC189ZSKTRT, SOT23D5	Semtech	SC189ZSKTRT	

Miscellaneous

Reference Designator	Description	Vendor	Vendor Part Number	Note
F1	FUSE, TCP1P25-R-12P6X4, SMT	Cooper	TR2/TCP1.25-R	3 
J1	CONN, 3 PIN, THRU	AMP	87224-3	

PSTN PCB PART LIST

Miscellaneous (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
J1	JUMPER, 2P, P2.54MM, BLACK	SAMTEC	SNT-100-BK-H-H	
J2	CONN, RJ11, THRU	Stewart	SS-6466-NF	
J8	CONN, 6 PIN, THRU	Harwin	M20-9990645	
J9	CONN, FPC, 26 PIN, SMT	Amphenol	SFV24R-2STE1HLF	
SW1	SW, PB, SPST, PANASONIC, RT, THRU	Panasonic	EVQ-PF006K	
Y1	XTAL, ABM2-24.576MHZ-D4Y-T, 8X4P5	Abrakon	ABM2-24.576MHZ-D4Y-T	
-	METAL MOUNTING BRACKET, BSE30A1, M3 THREAD	KEYSTONE ELECTRONICS	7790	

ACOUSTIC ECHO PCB PART LIST

Resistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R2	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R4	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R5	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R6	100K, 1/16W, 04021%, T&R	Yageo	RC0402FR-07100KL	
R7	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R8	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R9	100K, 1/16W, 04021%, T&R	Yageo	RC0402FR-07100KL	
R10	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R11	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R12	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R13	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R14	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R15	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R16	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R17	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R18	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R19	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R20	1K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-071KL	
R21	1K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-071KL	
R22	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R23	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R24	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R25	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R26	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R27	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R28	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R29	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R30	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	

ACOUSTIC ECHO PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R31	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R32	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R33	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R34	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R35	0 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-070RL	
R36	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R79	0 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-070RL	
R80	1M, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-071ML	
R81	2.2M, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-072M2L	
R82	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R83	200 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07200RL	
R84	200 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07200RL	
R85	240 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07240RL	
R86	240 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07240RL	
R87	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R88	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R89	240 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07240RL	
R90	240 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07240RL	
R91	240 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07240RL	
R108	240 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07240RL	
R109	240 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07240RL	
R110	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R111	22, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0722RL	
R112	12.1K, 1/16W, 0402, 1%	Yageo	RC0402FR-0712K1L	
R170	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R194	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R197	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R201	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R205	2.2K, 1/16W, 0402, 1%	Yageo	RC0402FR-072K2L	
R232	0 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-070RL	
R235	0 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-070RL	
R239	0 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-070RL	
R240	0 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-070RL	
R243	0 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-070RL	
R244	2.2K, 1/16W, 0402, 1%	Yageo	RC0402FR-072K2L	
R245	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R246	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R247	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R248	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R249	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R250	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R252	470, OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-07470RL	
R268	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	

ACOUSTIC ECHO PCB PART LIST

Resistors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
R269	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R272	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R273	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R274	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R284	2.2K, 1/16W, 0402, 1%	Yageo	RC0402FR-072K2L	
R285	2.2K, 1/16W, 0402, 1%	Yageo	RC0402FR-072K2L	
R286	10K, OHM, 1/16W, 0402, 1%	Yageo	RC0402FR-0710KL	
R303	75 OHM, 1/8W, 0805, 1%, T&R	Yageo	RC0805FR-0775RL	
R307	75 OHM, 1/8W, 0805, 1%, T&R	Yageo	RC0805FR-0775RL	
R308	0 OHM, 1/16W, 0402, 1%, T&R	Yageo	RC0402FR-070RL	
RN1	RES NETWORK, 8P, 10K, 1/16W, ISO, 5%	Yageo	YC124-JR-0710KL	
RN2	RES NETWORK, 8P, 10K, 1/16W, ISO, 5%	Yageo	YC124-JR-0710KL	
RN3	RES NETWORK, 8P, 10K, 1/16W, ISO, 5%	Yageo	YC124-JR-0710KL	
RN4	RES NETWORK, 8P, 10K, 1/16W, ISO, 5%	Yageo	YC124-JR-0710KL	
RN5	RES NETWORK, 8P, 10K, 1/16W, ISO, 5%	Yageo	YC124-JR-0710KL	
RN6	RES NETWORK, 8P, 10K, 1/16W, ISO, 5%	Yageo	YC124-JR-0710KL	
RN7	RES NETWORK, 8P, 10K, 1/16W, ISO, 5%	Yageo	YC124-JR-0710KL	
RN8	RES NETWORK, 8P, 10K, 1/16W, ISO, 5%	Yageo	YC124-JR-0710KL	

Capacitors

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C2	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C3	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C4	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C5	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C6	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C7	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C8	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C9	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C10	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C11	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C12	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C13	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C14	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C15	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C16	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C17	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C18	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C19	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C20	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C21	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	

ACOUSTIC ECHO PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C22	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C23	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C24	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C25	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C26	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C27	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C28	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C29	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C31	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C33	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C34	E CAP, 100UF, 6.3V, 20%, 55C, T&R	Nichicon	RSS0J101MCN1GS	
C35	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C36	2.2, UF, X5R, 25V, 10%, 0603, 85C, T&R	TDK	C1608X5R1E225KT000E	
C37	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C38	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C40	2.2, UF, X5R, 25V, 10%, 0603, 85C, T&R	TDK	C1608X5R1E225KT000E	
C41	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C42	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C43	22UF, X5R, 10V, 20%, 0805, 85C, T&R	TDK	C2012X5R1A226MT0J0E	
C44	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C45	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C46	X7R, 0.22UF, 16V, 10%, 55C, 0402, T&R	Murata	GRM155R71C224KA12D	
C47	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C48	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C49	X7R, 0.22UF, 16V, 10%, 55C, 0402, T&R	Murata	GRM155R71C224KA12D	
C50	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C51	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C52	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C53	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C54	X5R, 4.7UF, 10V, 10%, 85C, 0603, T&R	Yageo	CC0603KRX5R6BB475	
C55	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C56	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C58	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C60	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C61	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C62	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C63	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C64	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C86	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C87	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C88	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C89	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C90	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	

ACOUSTIC ECHO PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C91	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C92	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C93	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C94	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C95	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C96	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C97	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C98	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C99	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C100	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C101	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C102	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C103	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C104	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C105	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C106	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C107	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C108	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C109	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C110	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C111	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C112	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C113	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C114	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C115	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C116	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C117	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C118	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C119	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C120	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C121	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C122	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C123	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C124	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C125	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C126	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C126	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C128	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C129	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C130	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C131	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C132	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C133	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	

ACOUSTIC ECHO PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C134	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C135	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C136	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C137	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C138	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C139	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C140	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C141	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C142	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C143	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C144	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C146	X7R, 0.22UF, 16V, 10%, 55C, 0402, T&R	Murata	GRM155R71C224KA12D	
C147	COG, 15PF, 50V, 5%, 55C, 0402, T&R	Murata	GRM1555C1H150JA01D	
C148	COG, 15PF, 50V, 5%, 55C, 0402, T&R	Murata	GRM1555C1H150JA01D	
C149	X5R, 10UF, 10V, 10%, 0603, T&R	TDK	C1608X5R1A106KT000E	
C150,	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C151	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C152	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C153	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C154	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C155	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C156	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C157	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C158	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C159	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C160	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C161	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C162	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C163	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C164	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C165	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C166	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C167	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C168	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C169	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C170	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C171	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C172	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C173	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C174	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C175	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C176	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	

ACOUSTIC ECHO PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C177	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C178	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C179	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C180	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C181	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C182	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C183	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C183	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C184	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C185	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C186	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C187	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C188	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C189	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C190	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C191	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C192	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C193	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C194	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C195	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C196	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C197	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C198	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C199	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C200	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C201	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C202	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C203	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C204	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C205	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C230	NPO, 22PF, 50V, 5%, 0402	Murata	GRM1555C1H220JA01D	
C231	NPO, 22PF, 50V, 5%, 0402	Murata	GRM1555C1H220JA01D	
C232	X5R, 10UF, 10V, 10%, 0603, T&R	TDK	C1608X5R1A106KT000E	
C233	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C234	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C235	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C236	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C237	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C238	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C239	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C240	X5R, 10UF, 10V, 10%, 0603, T&R	TDK	C1608X5R1A106KT000E	
C241	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C242	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	

ACOUSTIC ECHO PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C243	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C244	X5R, 10UF, 10V, 10%, 0603, T&R	TDK	C1608X5R1A106KT000E	
C245	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C246	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C247	X5R, 10UF, 10V, 10%, 0603, T&R	TDK	C1608X5R1A106KT000E	
C248	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C249	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C250	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C251	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C252	X5R, 10UF, 10V, 10%, 0603, T&R	TDK	C1608X5R1A106KT000E	
C253	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C254	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C255	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C256	X7R, 10NF, 25V, 10%, 0402	Murata	GRM155R71E103KA01D	
C328	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C329	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C330	X5R, 10UF, 10V, 10%, 0603, T&R	TDK	C1608X5R1A106KT000E	
C331	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C332	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C333	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C334	X5R, 10UF, 10V, 10%, 0603, T&R	TDK	C1608X5R1A106KT000E	
C335	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C356	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C357	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C358	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C360	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C361	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C362	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C363	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C364	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C365	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C366	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C367	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C368	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C369	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C370	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C371	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C372	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C381	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C382	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C383	X5R, 10UF, 10V, 10%, 0603, T&R	TDK	C1608X5R1A106KT000E	
C393	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C394	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	

ACOUSTIC ECHO PCB PART LIST

Capacitors (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
C395	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C396	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C397	22UF, X5R, 6.3V, 20%, 0603, 85C, T&R	Murata	GRM188R60J226MEA0D	
C398	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C399	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C400	X5R, 0.22UF, 10V, 10%, 0201, 55C, T&R	TDK	C0603X5R1A224KT00NN	
C402	X7R, 0.1UF, 25V, 10%, 0402, 125C, T&R	TDK	C1005X7R1E104KT000F	
C413	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C414	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C415	X5R, 1UF, 25V, 10%, 55C, 0603, T&R	Murata	GRM188R61E105KA12D	
C455	X7R, 0.22UF, 16V, 10%, 55C, 0402, T&R	Murata	GRM155R71C224KA12D	

Ferrite Beads

Reference Designator	Description	Vendor	Vendor Part Number	Note
FB1	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	
FB2	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	
FB3	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	
FB4	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	
FB5	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	
FB6	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	
FB7	SMT, FERR BEAD, 120 OHM, 25%, 3500MA, 0805	LAIRD TECH	HI0805O121R-10	
FB8	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	
FB10	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	
FB59	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	
FB60	SMT, FERR BEAD, 1K, 25%, 100MA, 0603	Murata	BLM18AG102SN1D	

Inductors

Reference Designator	Description	Vendor	Vendor Part Number	Note
CM1	INDUCTOR, 90 OHM, 25%, 330MA, 0805	Murata	DLW21SN900SQ2L	
L1	INDUCTOR, 1UH, 20%, 15A, 7.2X6.65MM	ABRACON	ASPI-0630LR-1R0M-T15	
L2	INDUCTOR, 1UH, 20%, 15A, 7.2X6.65MM	ABRACON	ASPI-0630LR-1R0M-T15	
L3	INDUCTOR, 1UH, 20%, 15A, 7.2X6.65MM	ABRACON	ASPI-0630LR-1R0M-T15	
L4	INDUCTOR, 3.3UH, 20%, 1210MA, 3X3MM	TAIYOYUD-EN	NR3015T3R3M	
L5	INDUCTOR, 3.3UH, 20%, 1210MA, 3X3MM	TAIYOYUD-EN	NR3015T3R3M	

Diodes

Reference Designator	Description	Vendor	Vendor Part Number	Note
D1	DIODE, RECT, MBR230LSFT1G, SOD-123	ON Semi	MBR230LSFT1G	
D2	SMT, DIODE, RECTIFIER, S2A-13-F, SMB	DIODES INC	S2A-13-F	
D49	SMT, DIODE, SW, BAV99, SOT-23	Fairchild	BAV99	
D50	SMT, DIODE, SW, BAV99, SOT-23	Fairchild	BAV99	

ACOUSTIC ECHO PCB PART LIST

Transistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
Q1	TR, NPN, 65V, 100MA, SOT-23	NXP	BC846B,215	
Q2	TR, NPN, 65V, 100MA, SOT-23	NXP	BC846B,215	
Q3	TR, NPN, 65V, 100MA, SOT-23	NXP	BC846B,215	
Q10	MOSFET, P-CH, 30V, 4A, SOT-23	ALPHA AND OMEGA SEMI	AO3401A	

Integrated Circuits

Reference Designator	Description	Vendor	Vendor Part Number	Note
U1	PMMMPF0100F0AEP, QFN	FREESCALE SEMI	MMPF0100F0AEP	
U2	DC-DC CONVERTER, LM3671MFX-1.2/ NOPB, SOT23	TI	LM3671MFX-1.2/NOPB	
U3	ESD PROTECT, IP4220CZ6, 125, CS-74	NXP	IP4220CZ6,125	
U4	ESD PROTECT, IP4220CZ6, 125, CS-74	NXP	IP4220CZ6,125	
U5	MPU MCIMX6Q5EYM10AD, FCPBGA	FREESCALE SEMI	MCIMX6Q5EYM10AD	
U6	SDRAM, MT41K128M16JT-125:K, TR, TFBGA	Micron Semi	MT41K128M16JT-125:K TR	
U7	SDRAM, MT41K128M16JT-125:K, TR, TFBGA	Micron Semi	MT41K128M16JT-125:K TR	
U8	SDRAM, MT41K128M16JT-125:K, TR, TFBGA	Micron Semi	MT41K128M16JT-125:K TR	
U9	SDRAM, MT41K128M16JT-125:K, TR, TFBGA	Micron Semi	MT41K128M16JT-125:K TR	
U10	ETHERNET TRANSCEIVERS, KSZ9031RNX-CA, TR, QFNROHS	MICREL SEMI	KSZ9031RNXCA TR	
U11	BUFFER, SN74LVC541APWT, TSSOP	TI	SN74LVC541APWT	
U12	LDO, MIC94310-4YMT, TR, DFN	MICREL SEMI	MIC94310-4YMT TR	
U13	VOLT SPRVSR, TPS3808G18DBVR	TI	TPS3808G18DBVR	
U27	ESD PROTECT, IP4220CZ6, 125, CS-74	NXP	IP4220CZ6,125	
U28	NAND, FLASH, MTFC8GACAAAM-4M-IT, VFBGA	Micron Semi	MTFC8GACAAAM-4M-IT	
U38	ESD PROTECT, IP4220CZ6, 125, CS-74	NXP	IP4220CZ6,125	

Miscellaneous

Reference Designator	Description	Vendor	Vendor Part Number	Note
P1	HEADER, 41P, 91911-31341LF	FCI	91911-31341LF	
XTAL1	CRYSTAL, SMT, 24.0000MHZ, 9PF, 10PPM, SMD	Epson (HK) LTD.	TSX-3225 24.0000MF 15X-AC3	
XTAL2	CRYSTAL, SMT, 25.0000MHZ, 18PF, 30PPM, SMD	TXC CORPORATION	7B-25.000MAAJ-T	

OLED PCB PART LIST

Resistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
R1	39.2K, 1/10W, 1%, 0402, SM	PANASONIC	ERJ-2RKF3922X	
R2	4.32K, 1/10W, 1%, 0603, SM	PANASONIC	ERJ-3EKF4321V	
R3	10.0K, 1/10W, 1%, 0402	PANASONIC	ERJ-2RKF1002X	
R4	10.0K, 1/10W, 1%, 0402	PANASONIC	ERJ-2RKF1002X	
R5	10.0K, 1/10W, 1%, 0402	PANASONIC	ERJ-2RKF1002X	
R6	4.7K, 1/10W, 5%, 0603	PANASONIC	ERJ-3GEYJ472V	
R8	4.7K, 1/10W, 5%, 0603	PANASONIC	ERJ-3GEYJ472V	
R9	4.7K, 1/10W, 5%, 0603	PANASONIC	ERJ-3GEYJ472V	
R10	10.0K, 1/10W, 1%, 0402	PANASONIC	ERJ-2RKF1002X	
R12	681 OHM, 1/10W, 1%, 0603	PANASONIC	ERJ-3EKF6810V	
R14	4.7K, 1/10W, 5%, 0603	PANASONIC	ERJ-3GEYJ472V	
R15	4.7K, 1/10W, 5%, 0603	PANASONIC	ERJ-3GEYJ472V	
R16	10.0K, 1/10W, 1%, 0402	PANASONIC	ERJ-2RKF1002X	
R17	10.0K, 1/10W, 1%, 0402	PANASONIC	ERJ-2RKF1002X	
R18	10.0K, 1/10W, 1%, 0402	PANASONIC	ERJ-2RKF1002X	

Capacitors

Reference Designator	Description	Vendor	Vendor Part Number	Note
C1	CER, 4.7UF, 25V, 20%, X5R, 0805	MURATA	GRM21BR61E475MA12L	
C2	CER, 0.1UF, 25V, 10%, X7R, 0402	TDK	CGA2B3X7R1E104K	
C3	ELYT, ALUM, 47UF, 25V, 20%, SM	PANASONIC	EEE-1EA470WP	
C4	CER, 0.1UF, 25V, 10%, X7R, 0402	TDK	CGA2B3X7R1E104K	
C5	ELYT, ALUM, 47UF, 25V, 20%, SM	PANASONIC	EEE-1EA470WP	
C6	CER, 4.7UF, 25V, 20%, X5R, 0805	MURATA	GRM21BR61E475MA12L	
C7	CER, 0.1UF, 25V, 10%, X7R, 0402	TDK	CGA2B3X7R1E104K	
C8	CER, 0.1UF, 25V, 10%, X7R, 0402	TDK	CGA2B3X7R1E104K	
C9	ELYT, ALUM, 47UF, 25V, 20%, SM	PANASONIC	EEE-1EA470WP	
C10	CER, 0.1UF, 25V, 10%, X7R, 0402	TDK	CGA2B3X7R1E104K	
C11	CER, 0.1UF, 25V, 10%, X7R, 0402	TDK	CGA2B3X7R1E104K	
C12	CER, 0.1UF, 25V, 10%, X7R, 0402	TDK	CGA2B3X7R1E104K	
C13	CER, 0.1UF, 25V, 10%, X7R, 0402	TDK	CGA2B3X7R1E104K	
C14	ELYT, ALUM, 47UF, 25V, 20%, SM	PANASONIC	EEE-1EA470WP	
C15	CER, 0.1UF, 25V, 10%, X7R, 0402	TDK	CGA2B3X7R1E104K	

Diodes

Reference Designator	Description	Vendor	Vendor Part Number	Note
D1	215MA, 70V, DUAL, SERIES, SOT-23-3	ON SEMI	BAV99LT1G	
D2	215MA, 70V, DUAL, SERIES, SOT-23-3	ON SEMI	BAV99LT1G	
D3	215MA, 70V, DUAL, SERIES, SOT-23-3	ON SEMI	BAV99LT1G	
D4	215MA, 70V, DUAL, SERIES, SOT-23-3	ON SEMI	BAV99LT1G	
D5	215MA, 70V, DUAL, SERIES, SOT-23-3	ON SEMI	BAV99LT1G	

OLED PCB PART LIST

Diodes (continued)

Reference Designator	Description	Vendor	Vendor Part Number	Note
D6	ZENER, 500MW, 12V, SOD-123	DIODES INC	MMSZ5242B-7-F	
D7	215MA, 70V, DUAL, SERIES, SOT-23-3	ON SEMI	BAV99LT1G	
D8	ZENER, 2.7V, 500MW, SOD123	DIODES INC	BZT52C2V7-7-F	

Transistors

Reference Designator	Description	Vendor	Vendor Part Number	Note
Q1	NPN, 40V, 0.2A, SOT-23-3	FAIRCHILD	MMBT3904	
Q2	NPN, 40V, 0.2A, SOT-23-3	FAIRCHILD	MMBT3904	
Q3	NPN, 40V, 0.2A, SOT-23-3	FAIRCHILD	MMBT3904	

Integrated Circuits

Reference Designator	Description	Vendor	Vendor Part Number	Note
U1	ENCODER, 15MM, FLATTED, 20 DET	CTS	290VAA5F201B2	

Miscellaneous

Reference Designator	Description	Vendor	Vendor Part Number	Note
J1	CONN, FFC, VERT, 24 POS, 0.50MM, SMD	FCI	62674-241121ALF	
J2	CONN, FFC, BOTTOM, 20 POS, 0.50MM, R/A	JST	20FLZ-RSM2-TB(LF)(SN)	
LED1	LED, DUAL, WHT/RED, 3.5MM X 2.8MM	KINGBRIGHT	AAA3528QWDSURKS	

DISASSEMBLY PROCEDURE

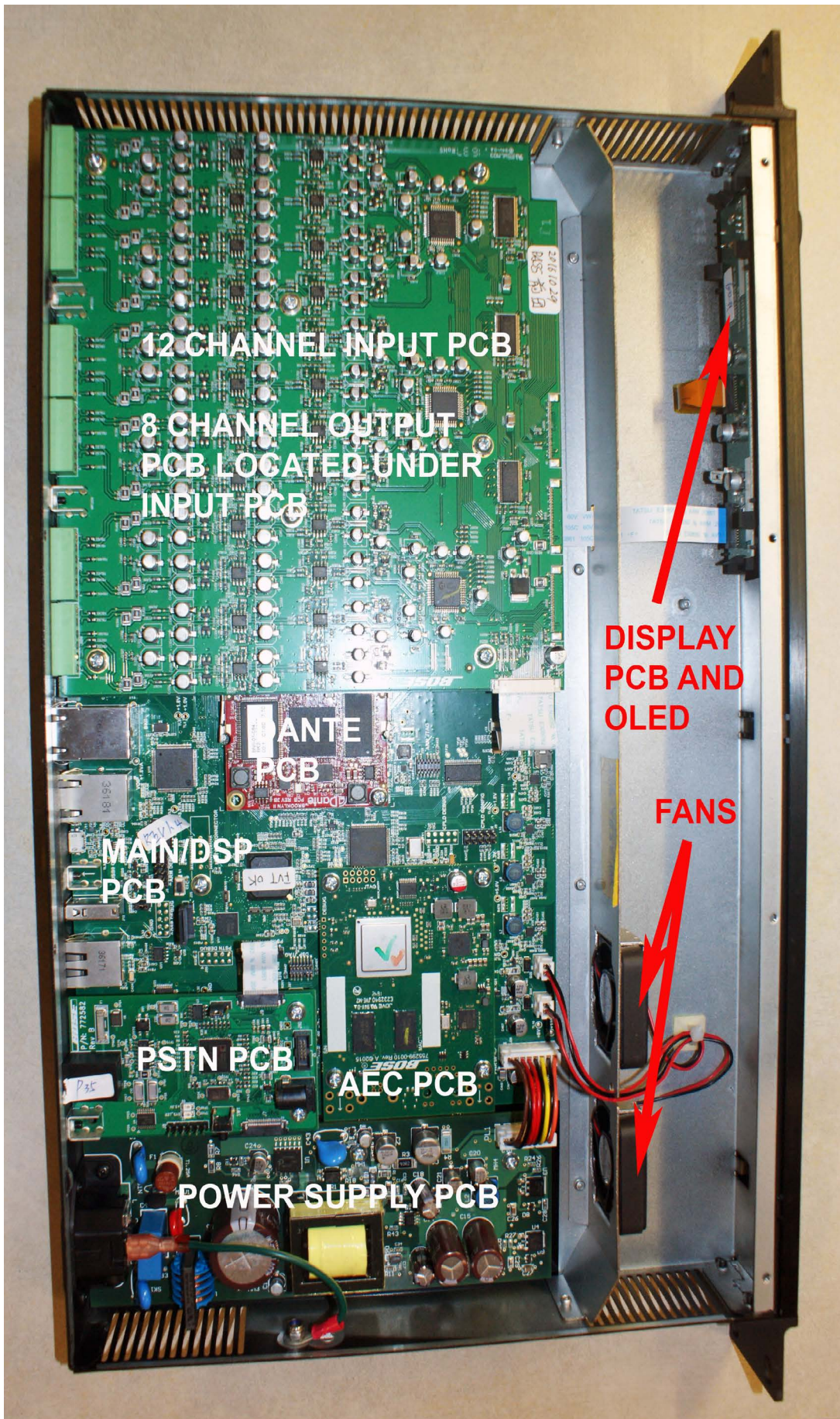


Figure 3. Chassis View - PCB Locations

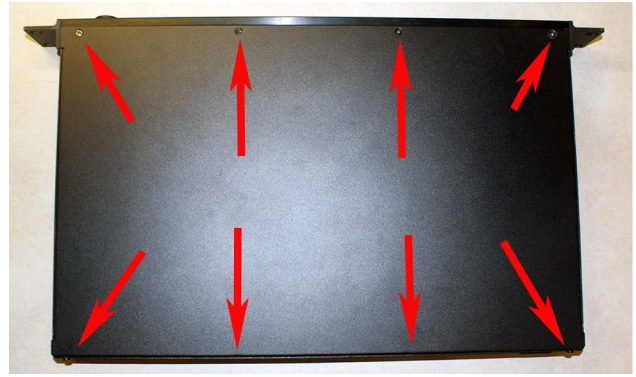
DISASSEMBLY PROCEDURE

1. Top Cover Removal

1.1 Remove the eight screws that secure the top cover to the chassis. There are four along the front edge and four more along the rear edge of the chassis.

Note: The screws used along the front and rear of the unit are different types.

1.2 Lift off the top cover.

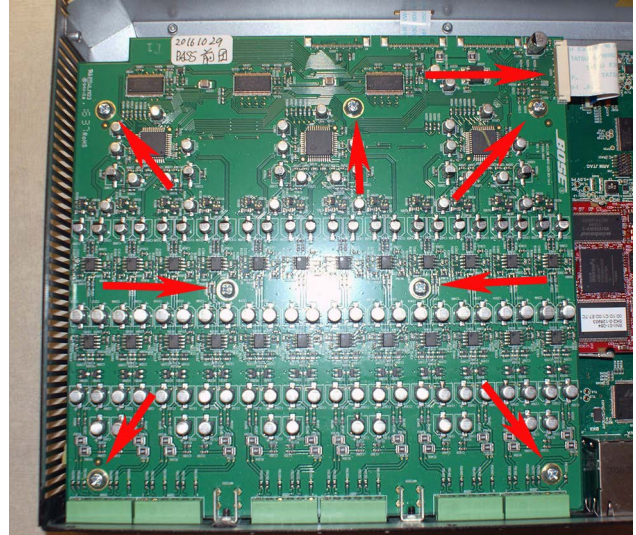


2. 12 - Channel Input PCB Removal

2.1 Perform procedure 1.

2.2 Unplug the ribbon cable at J2203.

2.3 Remove the two screws that secure the PCB to the rear panel. Remove the seven screws that secure the PCB to the standoffs inside the chassis. Lift out the PCB assembly.



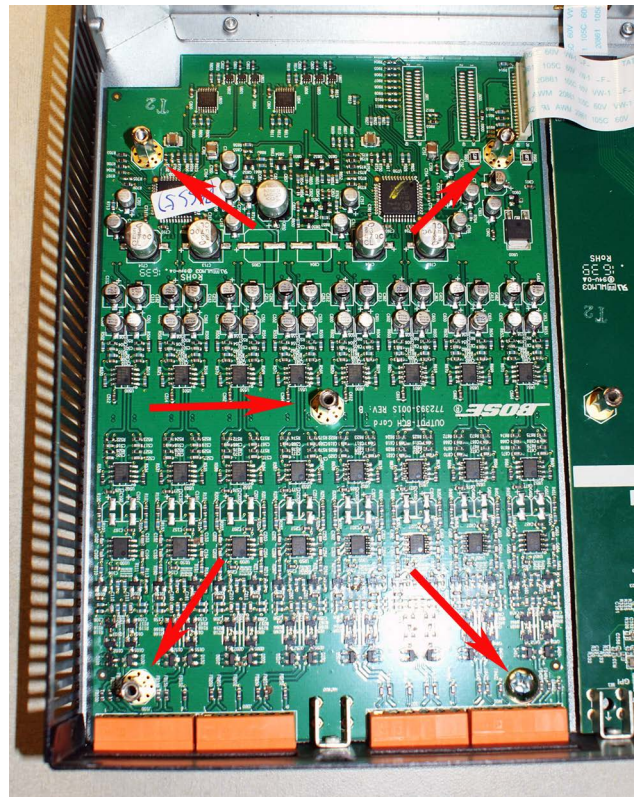
3. 8 - Channel Output PCB Removal

3.1 Perform procedure 2.

3.2 Unplug the ribbon cable at J902.

3.3 Remove the one screw that secures the PCB to the rear panel.

3.4 Remove the four metal standoffs that secure the PCB to the chassis. Lift out the PCB assembly.



DISASSEMBLY PROCEDURE

4. Power Supply PCB Removal

CAUTION! There is high voltage located on the power supply PCB during operation. Be sure to allow at least one minute for the power supply to discharge after removing AC mains from the chassis, and before removing the top cover.

4.1 Perform procedure 1.

4.2 Unplug the wiring harness at PL1.

4.3 Disconnect the ground wire at the IEC connector by pulling the Faston connector off of the tab on the back of the AC jack.

4.4 Remove the four silver colored screws that secure the PCB to the chassis. Remove the two black screws that secure the AC jack to the chassis. Lift out the PCB assembly.

CAUTION! During re-assembly, be sure that the plastic insulation sheet is properly located under the power supply PCB before re-installing the PCB assembly. Failure to do so could result in a short-circuit to the chassis.



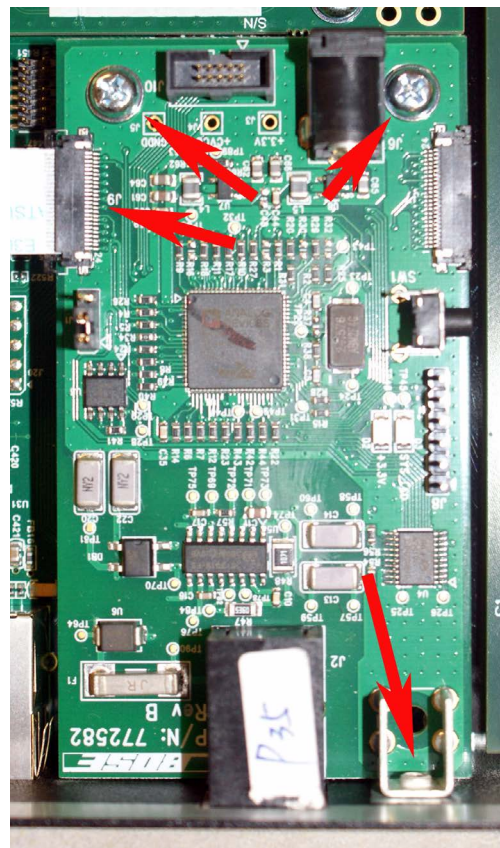
5. Public Service Telephone Network (PSTN) PCB Removal

5.1 Perform procedure 1.

5.2 Disconnect the ribbon cable at J9.

5.3 Remove the one black screw that secures the PCB to the rear chassis. Remove the two silver colored screws that secure the PCB to the standoffs.

5.4 Lift out the PCB assembly.



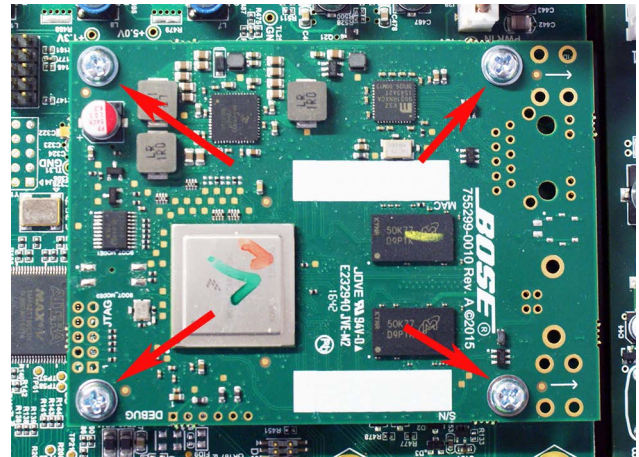
DISASSEMBLY PROCEDURE

6. Acoustic Echo Cancellation (AEC) PCB Removal

6.1 Perform procedure 1.

6.2 Remove the four screws that secure the AEC PCB to the Main/DSP PCB.

6.3 Lift the AEC PCB straight up to disconnect it from the Main/DSP PCB. There is a connector mounted on the bottom of the AEC board that plugs into the mating connector on the Main/DSP PCB.



7. Dante® PCB Removal

7.1 Perform procedure 1.

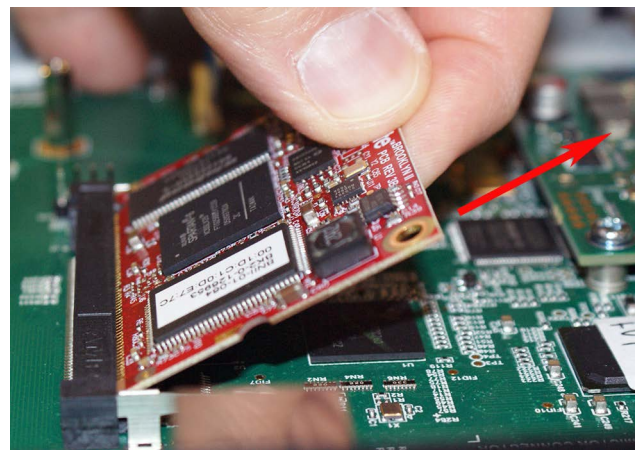
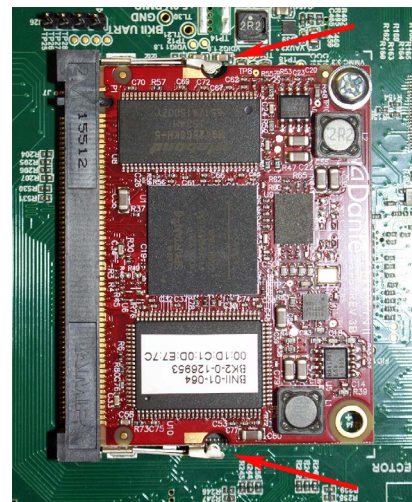
7.2 Remove the one screw that secures the Dante PCB to the Main/DSP PCB.

7.3 Move the two retaining clips located on the sides of the Dante PCB's connector outward. The Dante PCB should move upward when released from these clips.

7.4 Slide the Dante PCB out of the connector at an angle. Lift out the Dante PCB assembly.

Re-assembly Note: When re-installing the Dante PCB, slide it into the connector at an angle and press the back edge downward toward the Main/DSP until it is retained by the connector clips.

Secure it in place with the one screw removed in step 7.2.



DISASSEMBLY PROCEDURE

8. Main/DSP PCB Removal

CAUTION! The Main/DSP PCB has a Lithium battery mounted to the top side of the board. It is not replaceable, it is soldered in place. **DO NOT** dispose of this PCB assembly and/or battery in fire.

8.1 Perform procedure 1 to remove the chassis top cover.

8.2 Perform procedures 5, 6 and 7 to remove the PSTN, AEC and Dante PCBs from the Main/DSP PCB.

8.3 Unplug the ribbon cables at J17 (to Output PCB) and J19 (to OLED Display PCB).

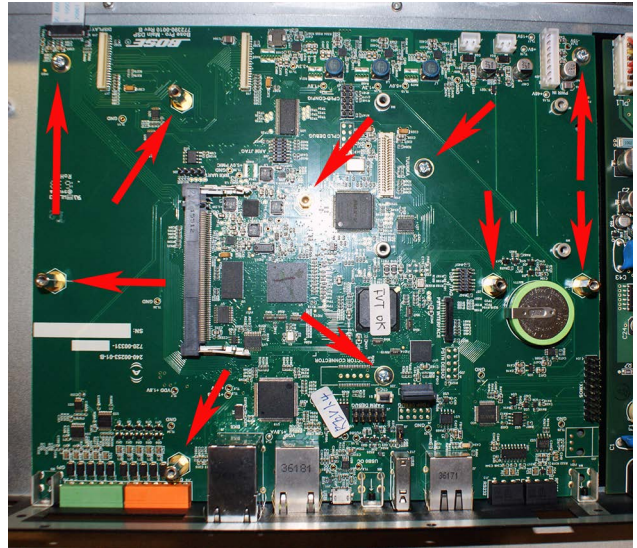
8.4 Unplug the wiring harness from the Power Supply PCB at J29.

8.5 Unplug the Fan wiring harnesses at the FAN1 and FAN2 connectors.

8.6 Remove the three black screws that secure the PCB to the rear of the chassis.

8.7 Make a note of the standoff locations, and remove the six standoffs and four screws that secure the PCB to the bottom of the chassis. Note: There is one standoff that is shorter than the others, and is located near the corner of the Dante PCB.

8.8 Lift the Main/DSP PCB out of the chassis.



9. Display PCB Removal

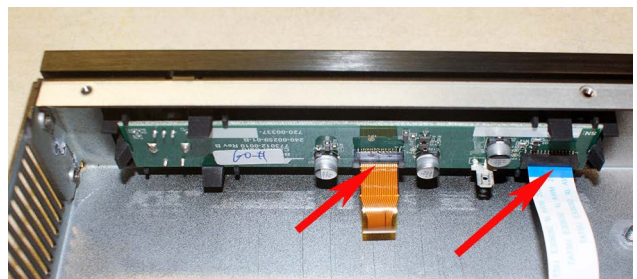
9.1 Perform procedure 1.

9.2 Unplug the ribbon cable at J1 (from Main/DSP PCB).

9.3 Gently press on the knob on the front of the chassis and press outward on the plastic clips that secure the Display PCB to the plastic carrier.

9.4 Once the Display PCB is free of the clips, unplug the ribbon cable at J2. This cable connects to the OLED display.

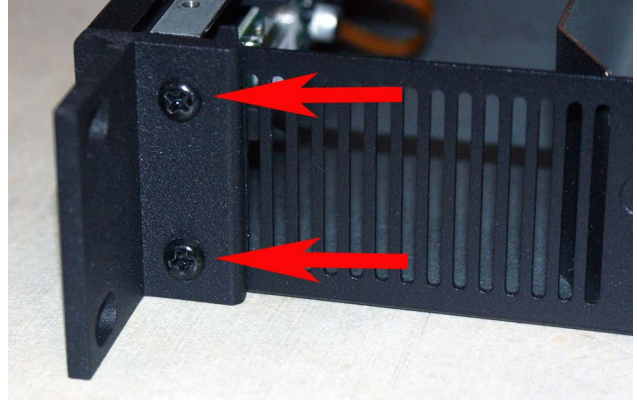
To remove the OLED display, proceed to step 12.



DISASSEMBLY PROCEDURE

10. Rack Ear Removal

10.1 Remove the two screws that secure the rack ear to the front panel. Lift off the rack ear.

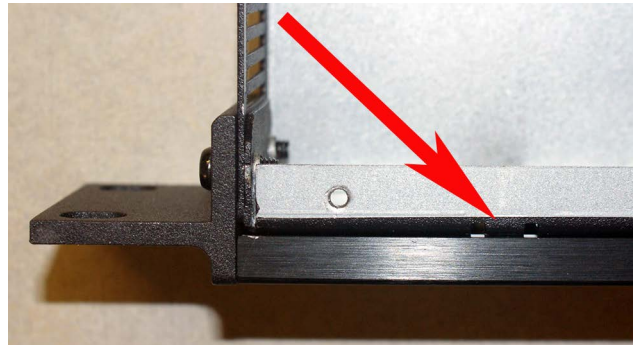


11. Front Panel Removal

11.1 Perform procedure 1 to remove top cover.

11.2 Perform procedure 10 to remove rack ears.

11.3 Using a small flat tip screwdriver, or similar, carefully pry the front panel off from the front of the chassis. The front panel is held in place with six metal clips, three each on top and bottom, that protrude from the front of the chassis. The front panel should come straight off. Take care to not mark the front panel assembly during this process.



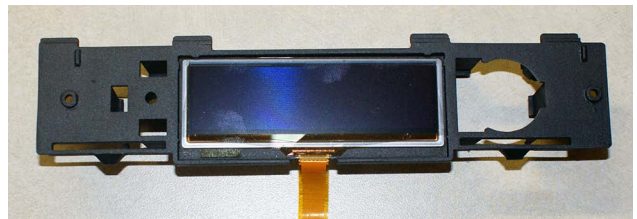
12. OLED Display Removal

12.1 Perform procedure 11.

12.2 Once the front panel is removed, you should be able to release the OLED display plastic carrier from the front panel by pressing in on the display carrier retaining tabs.

12.3 Lift out the display carrier. The OLED display is held in place on the display carrier with a pressure sensitive adhesive pad (PSA).

Note: The OLED display is not removable from the display carrier. The service part replacement OLED display will come pre-mounted to a carrier.



13. Display Lens Removal

13.1 Perform procedure 12 to remove the OLED display.

13.2 Lift out the Display Lens.



TEST PROCEDURE

Required Equipment / Items:

- Microsoft® Windows® compatible PC with the following:
 - Windows operating system (Windows 7 or later)
 - Bose® ControlSpace® Designer software (version 5.0 or later) download at <http://pro.bose.com>
 - EX-1280C_CSD_test_file.csp design file from the Bose Service web site product page
 - Available USB connector
- Audio Precision ATS-1 audio signal generator/analyzer or similar
- FreeSpace® ZA-190 or ZA-250 (to use as an Amplink destination)
- Bose ControlSpace USB/Headset Dante Endpoint - Bose part number 771784-0110
- TP-LINK TL-R600VPN Gigabit Broadband VPN router, or similar
- iCreatin 48V POE Injector Adapter Power supply, or similar (used to power Dante Endpoint)
- USB cable, A/USB micro connector type
- Bose CC-16 controller - product code 041761
- Bose CC-PS1 power supply - part number 371407-0010 (for CC-16 controller)
- Bose 10k linear potentiometer - product code 041966 (part number 299224) or similar
- Microphone
- Powered loudspeaker
- Ethernet cable with RJ45 connectors - qty. 3
- Telephone cable with RJ11 connectors - qty. 1

Test Setup:

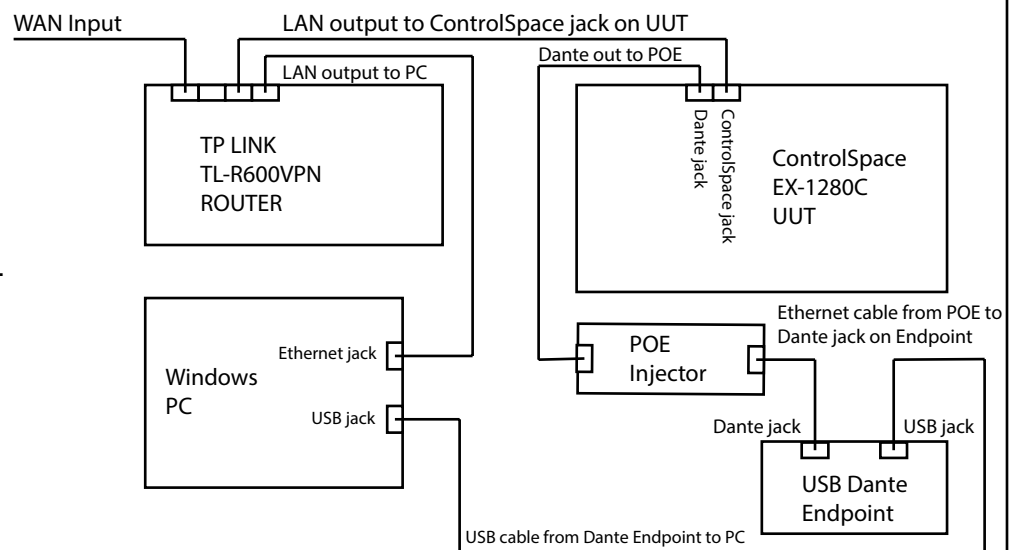
- Connect the following equipment as shown in the diagram below. You will use DHCP IP addresses for the following tests.

1. Using a CAT-5 Ethernet cable, connect the WAN input to the WAN connection on the router. Connect a LAN output to the ControlSpace jack on the Unit Under Test (UUT). Connect a second LAN output to the Ethernet jack on the PC.

2. Connect an Ethernet cable from the Dante jack on the UUT to the Dante/IN jack on the PoE Injector. Connect the P+D/Out jack to the Dante/PoE jack on the USB Dante Endpoint.

3. Connect a USB micro cable from the USB Dante Endpoint to an open USB jack on the PC.

4. Connect the UUT, router and PoE injector to AC mains. The UUT will begin to boot up. It can take up to one minute to fully boot. Once it is fully booted, you will see the graphic shown at right on the front panel of the UUT.

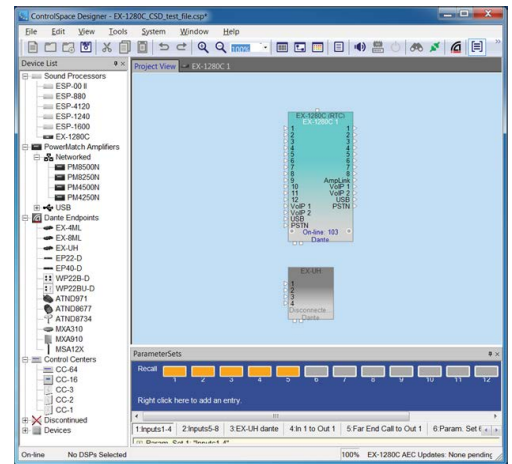


TEST PROCEDURE

5. Open the ControlSpace® Designer (CSD) software. Click FILE / OPEN. Select the EX-1280C_CSD_test_file.csp test file.

The settings transfer dialog box will open. Click on Send to Devices. This will set up the UUT and the USB Dante Interface to the correct settings for the following tests. Click GO ON-LINE. The UUT and USB Dante Endpoint will appear in the Project View tab. See photo at right. You are now connected to the device to perform the following tests.

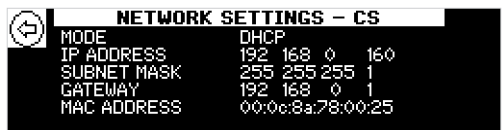
IMPORTANT NOTE: You will use CSD and this test file for ALL of the following tests.



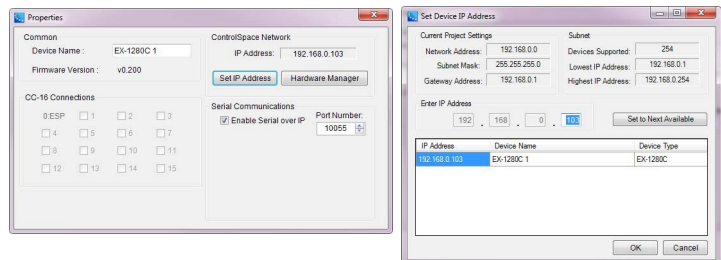
Note: If ControlSpace Designer does not connect, you may have to input the IP address of the UUT. From the front panel of the UUT. Go to CONFIG. Press the knob to select it.



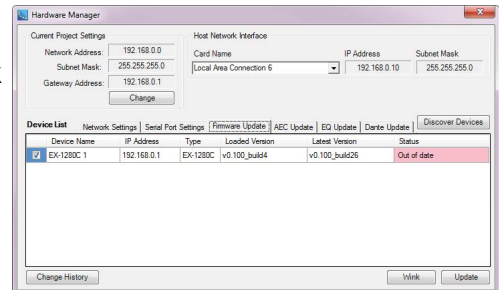
Turn the knob to CS NETW SETTINGS. Press the knob to access the panel, and read the IP address of the UUT.



In the ControlSpace Designer window as shown at top right, right-click on the EX-1280C and select Properties. Click Set IP Address. Input the IP address of the UUT. Once you have input the IP address, try to go ON-LINE again. You should now be able to connect.

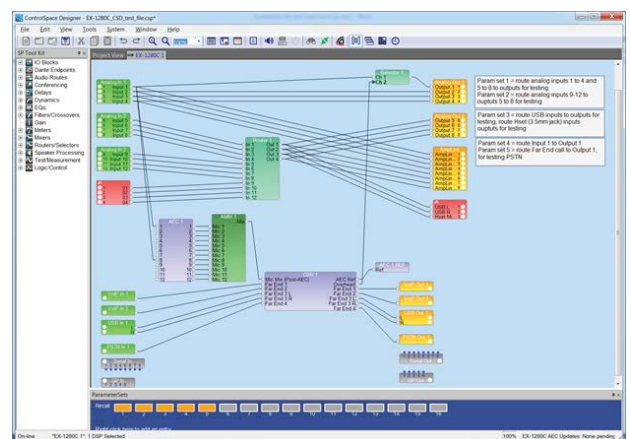


Note: If the UUT firmware is out of date, you will get the Hardware Manager dialog box. Click on the FIRMWARE UPDATE tab, check the checkbox next to the device to update and then click the UPDATE button at the bottom right. The firmware will update and the unit will reboot.



Once you are connected, in ControlSpace Designer, click on the Project View tab. See photo at right.

This view shows all of the signal routing for the various inputs and outputs. The Parameter buttons at the bottom of the window are used to set up the proper signal routing for the various tests as needed.



TEST PROCEDURE

Analog Input / Output Tests

Perform the following tests to verify proper operation of the analog input and output PCB assemblies.

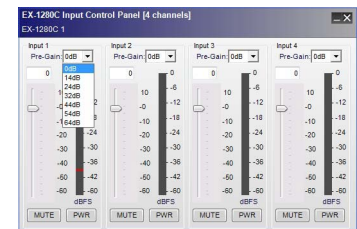
Notes:

1. Analog Inputs IN9 to IN12 are mapped to outputs OUT5 to OUT8 for the following tests. This is part of the test setup file.
2. The Automatic Echo Cancellation circuitry will be tested as part of the Analog Input channel 1 tests. The audio signal is routed through the AEC circuitry using the Parameter 1 setting in the CSD test file.
3. These tests are to be repeated on all 12 analog input channels.

1. Gain (GV=0dB) Test

1.1 Perform the test setup as described at the beginning of the Test Procedures. Open the ControlSpace® Designer (CSD) software. With the EX-1280C_CSD_test_file.csp test design file loaded and sent to the devices (UUT and USB Dante interface), ensure that you have successfully performed GO ON-LINE. Once connected, click on the EX-1280C tab in CSD. At the bottom of the screen, you should see five yellow parameter buttons. Click on Parameter 1. That parameter setting connects inputs 1 - 4 to outputs 1 - 4. Perform the below tests. **Note:** If you do not see the Parameter buttons on the screen, click on the Parameter icon near the right side of the CSD toolbar to display the buttons. You can hover over the icon to get the name.

1.2 In the CSD window, double-click on the Analog In 1 block to open the Input Control Panel. Using the pull-down menu and slider, set the pre-gain to 0dB for Inputs 1 - 4. Close the Input Control Panel. Apply a balanced 1kHz, +4dBu sine wave with a 22Hz/22kHz Low Pass Filter and A-weighting to the IN1 analog input.



1.3 Measure the output level at the OUT1 analog output. Verify that it is between +2.9dBu and +4.9dBu. Repeat for Inputs 2 - 4.

2. Noise Test

2.1 Set up the unit under test as described in test 1 above. Turn off the signal generator output.

2.2 Measure the output noise at the OUT1 output using a 22Hz/22kHz Low Pass Filter and A-weighting. Verify that the measured output noise at the OUT1 connector is <-91dBu.

3. Frequency Response 20kHz Test

3.1 Apply a balanced 20kHz, +4dBu sine wave with a 22Hz/22kHz Low Pass Filter and A-weighting to the IN1 analog input.

3.2 Measure the output level at the OUT1 analog output. Verify that it is between between +2.9dBu and +4.9dBu.

4. Frequency Response 20Hz Test

4.1 Apply a balanced 20Hz, +4dBu sine wave with a 22Hz/22kHz Low Pass Filter and A-weighting to the IN1 analog input.

4.2 Measure the output level at the OUT1 analog output. Verify that it is between +2.9dBu and +4.9dBu.

TEST PROCEDURE

5. Total Harmonic Distortion + Noise (THD+N) Test

5.1 Apply a balanced 1kHz, +4dBu sine wave to the IN1 analog input.

5.2 Measure the THD+N at the OUT1 output using a 22Hz/22kHz Low Pass Filter and A-weighting. Verify that the THD+N measures between 0.001% and 0.004%.

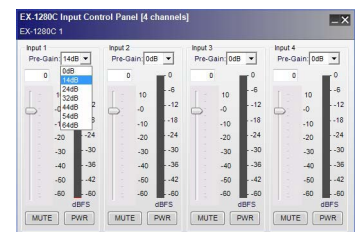
5.3 Change the input level to apply a balanced 1kHz, +23.5dBu sine wave to the IN1 analog input.

5.4 Measure the THD+N at the OUT1 output using a 22Hz/22kHz Low Pass Filter and A-weighting. Verify that the THD+N measures between 0.005% and 0.04%.

6. Gain (GV=+14dB) Test

6.1 In the CSD window, double-click on the Analog In 1 block to open the Input Control Panel. Using the pull-down menu, change the pre-gain setting to +14dB for Inputs 1 - 4. Apply a balanced 1kHz, -10dBu sine wave with a 22Hz/22kHz Low Pass Filter and A-weighting to the IN1 analog input.

6.2 Measure the output level at the OUT1 analog output. Verify that it is between +2.9dBu and +4.9dBu. Repeat for Inputs 2 - 4.



7. Noise Test

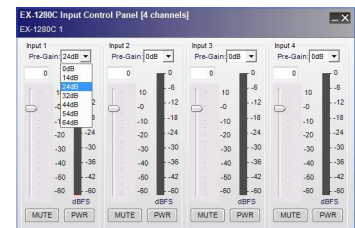
7.1 Set up the unit under test as described in test 6 above. Turn off the signal generator output.

7.2 Measure the output noise at the OUT1 output using a 22Hz/22kHz Low Pass Filter and A-weighting. Verify that the measured output noise at the OUT1 jack is <-90dBu.

8. Gain (GV=+24dB) Test

8.1 In the CSD window, double-click on the Analog In 1 block to open the Input Control Panel. Using the pull-down menu, change the pre-gain setting to +24dB for Inputs 1 - 4. Apply a balanced 1kHz, -20dBu sine wave with a 22Hz/22kHz Low Pass Filter and A-weighting to the IN1 analog input.

8.2 Measure the output level at the OUT1 analog output. Verify that it is between +2.9dBu and +4.9dBu. Repeat for Inputs 2 - 4.



9. Noise Test

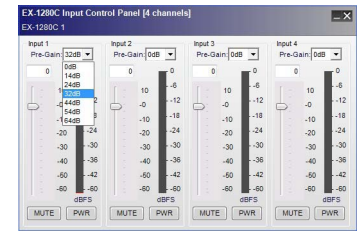
9.1 Set up the unit under test as described in test 8 above. Turn off the signal generator output.

9.2 Measure the output noise at the OUT1 output using a 22Hz/22kHz Low Pass Filter and A-weighting. Verify that the measured output noise at the OUT1 connector is <-89dBu.

TEST PROCEDURE

10. Gain (GV=+32dB) Test

10.1 In the CSD window, double-click on the Analog In 1 block to open the Input Control Panel. Using the pull-down menu, change the pre-gain setting to +32dB for Inputs 1 - 4. Apply a balanced 1kHz, -28dBu sine wave with a 22Hz/22kHz Low Pass Filter and A-weighting to the IN1 analog input.



10.2 Measure the output level at the OUT1 analog output. Verify that it is between +3.0dBu and +5.0dBu. Repeat for Inputs 2 - 4.

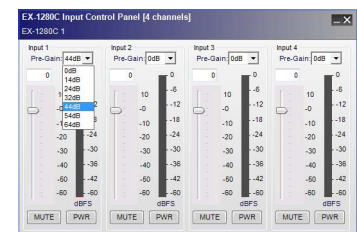
11. Noise Test

11.1 Set up the unit under test as described in test 10 above. Turn off the signal generator output.

11.2 Measure the output noise at the OUT1 output using a 22Hz/22kHz Low Pass Filter and A-weighting. Verify that the measured output noise at the OUT1 connector is <-84dBu.

12. Gain (GV=+44dB) Test

12.1 In the CSD window, double-click on the Analog In 1 block to open the Input Control Panel. Using the pull-down menu, change the pre-gain setting to +44dB for Inputs 1 - 4. Apply a balanced 1kHz, -40dBu sine wave with a 22Hz/22kHz Low Pass Filter and A-weighting to the IN1 analog input.



12.2 Measure the output level at the OUT1 analog output. Verify that it is between +3.0dBu and +5.0dBu. Repeat for Inputs 2 - 4.

13. Noise Test

13.1 Set up the unit under test as described in test 12 above. Turn off the signal generator output.

13.2 Measure the output noise at the OUT1 output using a 22Hz/22kHz Low Pass Filter and A-weighting. Verify that the measured output noise at the OUT1 connector is <-74dBu.

14. Frequency Response 20kHz Test

14.1 Apply a balanced 20kHz, -40dBu sine wave with a 22Hz/22kHz Low Pass Filter and A-weighting to the IN1 analog input.

14.2 Measure the output level at the OUT1 analog output. Verify that it is between +3.0dBu and +5.0dBu.

15. Frequency Response 20Hz Test

15.1 Apply a balanced 20kHz, -40dBu sine wave with a 22Hz/22kHz Low Pass Filter and A-weighting to the IN1 analog input.

15.2 Measure the output level at the OUT1 analog output. Verify that it is between +3.0dBu and +5.0dBu.

16. Total Harmonic Distortion + Noise (THD+N) Test

16.1 Apply a balanced 1kHz, -40dBu sine wave to the IN1 analog input.

TEST PROCEDURE

16.2 Measure the THD+N at the OUT1 output using a 22Hz/22kHz Low Pass Filter and A-weighting. Verify that the THD+N measures between 0.0035% and 0.022%.

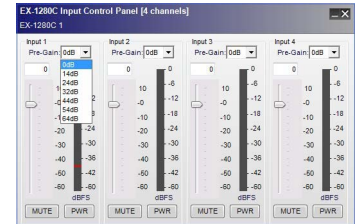
16.3 Change the input level to apply a balanced 1kHz, -16.5dBu sine wave to the IN1 analog input.

16.4 Measure the THD+N at the OUT1 output using a 22Hz/22kHz Low Pass Filter and A-weighting. Verify that the THD+N measures between 0.0027% and 0.046%.

17. Phantom Power Test

17.1 In the ControlSpace Designer EX-1280C tab view, double-click on the analog inputs 1 - 4 block. The Control Panel view will open. Click on the PWR button for INPUT 1. This button will activate Phantom Power for that channel.

17.2 On the UUT, use a multimeter to measure the +48V +/-1V phantom power from the PLUS (+) to GND and MINUS (-) to GND connections on the IN1 input channel. In CSD, click off the PWR button on the dialog box.



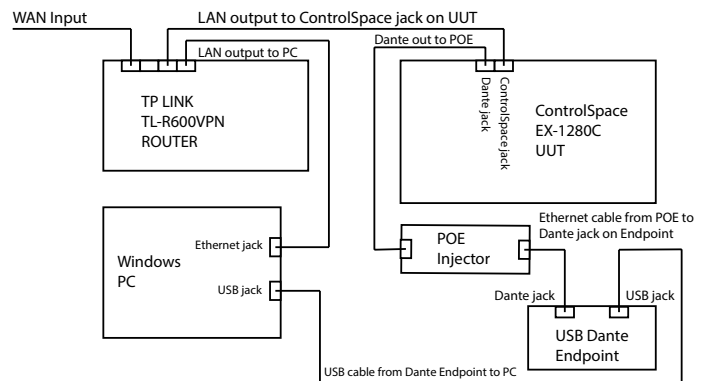
Repeat these tests for all 12 analog input channels.

Note: Be sure to select Parameter 2 in CSD for correct connections from the channel 5 - 8 and 9 - 12 inputs to outputs.

18. Dante™ Audio Test

Test Setup:

- Connect the following equipment as shown in the diagram at right. You will use DHCP IP addresses for the following tests.



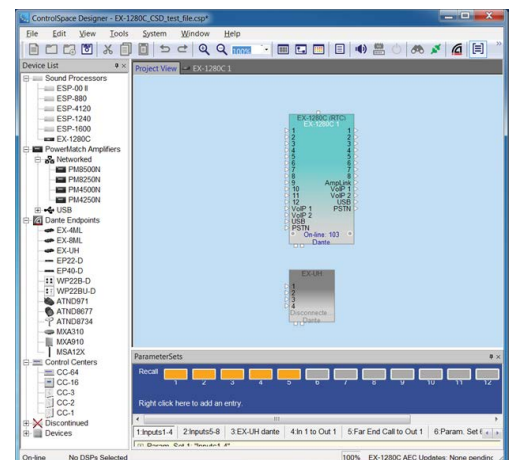
18.1 Using a CAT-5 Ethernet cable, connect the WAN input to the WAN connection on the router. Connect a LAN output to the ControlSpace jack on the Unit Under Test (UUT). Connect a second LAN output to the Ethernet jack on the PC.

18.2 Connect an Ethernet cable from the Dante jack on the UUT to the Dante/IN jack on the PoE Injector. Connect the P+D/Out jack to the Dante/PoE jack on the USB Dante Endpoint.

18.3 Connect a USB micro cable from the USB Dante Endpoint to an open USB jack on the PC.

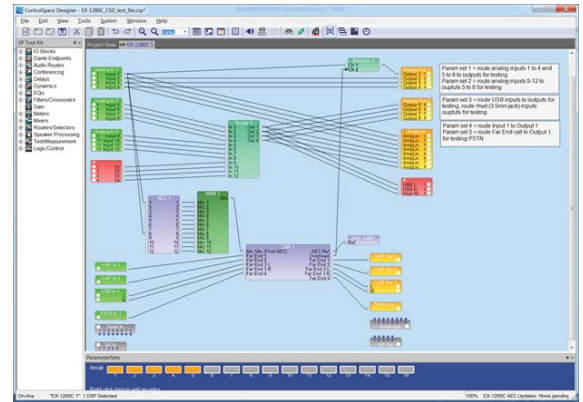
18.4 Connect a powered speaker to analog outputs 7 and 8 on the EX-1280C chassis. Turn on the powered speaker.

18.5 Open the ControlSpace Designer software. Open the EX-1280C_CSD_test_file.csp test file. Click GO ON-LINE. The program will open a dialog box. Click SEND TO DEVICE. Once the you are connected, the background will turn blue. You should see the EX-1280C and the USB Dante device. See photo at right. This test file will make all of the correct connections for this test.



TEST PROCEDURE

18.6 Click on the EX-1280C tab in the window to show the inputs/outputs and connections. See photo at right. Background color should be blue to show that you are ON-LINE. Click on the Parameter 3 button to set up the correct signal routing on the UUT.



18.7 On the PC, play an mp3 music file. Verify that you can hear the audio from the powered speaker. In the window at right, with the music playing, you should see green dots in the Dante input box on channels 3 and 4 and green output LEDs on the analog out 2 box, channels 7 and 8 and also AmpLink out ch. 7 and 8.

19. Voice Over IP (VoIP) Test

Note: VoIP uses the same circuitry on the Main/DSP PCB as the ControlSpace and Dante jacks. They are all routed through a data switch on the board, U19, that directs data to and from the correct jack. As a result, if you can connect the UUT to ControlSpace and see it correctly, then the VoIP jack should also be working properly, unless U19 has failed.

19.1 Connect the UUT to the PC using an Ethernet cable. Verify that you can connect to the UUT and that you can pass audio correctly.

20. USB Audio Test

Note: Only the micro USB connector on the EX-1280C UUT is checked in this test. The USB-A connector on the back of the unit is not activated at this time. It is for future use.

20.1 Connect a micro USB cable to an open USB port on the PC, and to the UUT's micro USB jack. Verify that the PC recognizes the UUT as a USB audio device. You should be able to see this in Device Manager on the PC.

20.2 Connect a powered speaker to the Output 1 analog output on the EX-1280C rear panel.

20.3 Open ControlSpace Designer, open the EX-1280C_CSD_test_file.csp test file. Click GO ON-LINE. Verify that you are on-line. Click on the Parameter 5 button to get the correct signal routing for this test.

20.4 Play an mp3 audio file from the PC to the UUT. Verify that you can see the audio input level on the UUT front panel. Verify that there is clear, undistorted audio coming from the powered speaker.

21. AmpLink Audio Test

21.1 Using a shielded CAT-5 Ethernet cable, connect the EX-1280C (UUT) to a ZA 2120-LZA amplifier or a PowerMatch amplifier with a PowerMatch AmpLink accessory card installed. This will be used as an AmpLink destination. Connect a pair of 4 ohm loudspeakers to the OUTPUT 1 and OUTPUT 2 connectors on the ZA 2120-LZA amplifier. Turn the Trim knobs fully clockwise.

21.2 Open ControlSpace Designer. Open the EX-1280C_CSD_test_file.csp test file. Connect to the UUT by clicking GO-ONLINE. Click SEND TO DEVICE to send the design file to the UUT. Once you see the blue background, indicating you are on-line, click on the EX-1280C tab at the top of the project window. Select the Parameter 1 button at the bottom of the window. This will route the audio signal properly for this test.

21.3 Connect an analog audio input to the EX-1280C analog input channels IN7 and IN8 jacks. Play a music source and verify that you can hear clear, undistorted audio coming from the loudspeakers.

TEST PROCEDURE

22. RS-485 Connection (CC-16) Test

Note: By checking for the CC-16 connection to the UUT, it will respond with the firmware version of the CC-16 that is connected CC-16 input jack at the RS485 connector. Test passes if the CC-16 is detected.

22.1 Connect a CC-16 Controller to the CC-16 jack on the rear panel. **Note:** The CC-16 must be powered using the associated AC power supply in order for it to operate. Refer to the required equipment list at the beginning of the test procedures for Bose® part numbers.

22.2 In ControlSpace Designer, verify that the CC-16 controller is seen as being connected to the DSP chassis. Pass if the CC-16 is seen in the CSD project window. Fail if the CC-16 cannot be seen.

23. Serial Connection Test

23.1 Connect a DB9 male serial data cable to an open serial port on the PC.

Note: If your PC does not have a serial data port, you may have to use a USB serial data converter

(such as a Dynex DX-UBDB9). This will allow

you to connect the serial data DB9 cable to the PC's USB

port through the adapter. Your PC will recognize it as a USB device. You DO NOT need to use a RS232 to TTL level shifter for this test.

EX-1280C Serial Port	DB9 Connector Pinout
Tx	Pin 2 (Receive Data)
Rx	Pin 3 (Transmit Data)
GND	Pin 5 (Ground)

to

23.2 Using a 3-pin connector, connect the other end of the cable to the Tx, Rx and GND connections on the EX-1280C. The wiring should be as shown in the table at right.

23.3 Open a Tera Term window. Select the Serial port or the USB port that the cable is connected to. Change the Serial Data settings to 115,200, 8, N, 1. Click Connect. Once connected, press the ENTER key on the keyboard a few times.

23.4 Ensure that the UUT responds with "|>". If it does, the serial data jack is working. Enter the command "date". UUT should respond with the current date and time.

24. Hi-Pot Test

THIS IS A MANDATORY TEST

Note: If this product requires removal of the top cover for 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 an accessible chassis ground point using an alligator clip. There are no special cables required for this test.

Hi-Pot Tester Settings:

All units - 2500 VAC, rise time = 1 sec., dwell = 1 to 4 seconds, current limit = 1.2 mA

24.1 Connect the AC mains cord to the back of the Unit Under Test (UUT). Plug the other end of the AC cord into the Hi-Pot tester.

TEST PROCEDURE

24.2 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 test to ensure the unit is safe to return to the customer.

26. 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 amplifier 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 rear of the chassis.

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.

26.1 Connect the AC mains cord to the back of the Unit Under Test. Plug the other end of the AC cord into the ground bond test box.

26.2 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.

TROUBLESHOOTING

1. When the EX-1280C is first powered up and fully booted, you should see the display below on the front panel. This panel indicates the firmware versions for all of the installed PCB's. If you cannot see a firmware version for a particular PCB, that means that the unit's firmware is not seeing that board and may indicate a fault with that particular board. From the front panel, select VERSION INFO.

VERSION INFO displays the version number of the installed software and/or firmware for the following components of the EX1280C:

- FW
- DSP
- AEC
- PSTN
- Dante
- Kernel
- VoIP

```

Firmware Versions
  File: v1.000, build: 1
  DSP: App:0.39.0b0,Com:0.18.0b0,Alg:0.34.0b0
  AEC: 1.0.3 (12 microphone channels)
  PSTN: v1.00                      VoIP: v1.8.0
  Dante: 1.0.6                      Num Ch: 64x64
  Kernel: 1.000
  
```

Num Ch displays the number of available Dante audio channels.

2. Once the unit is fully booted, the LED to the left of the display should be lit WHITE. If it is RED, it usually indicates that either the loaded design file has an error or there is another problem. Open the ControlSpace Designer software, load the EX-1280C_CSD_test_file.csp design file. Click SEND TO DEVICES. If the test file loads successfully, the LED should turn WHITE. If it remains RED, the unit will need further troubleshooting.

3. Refer to the table below for common issues.

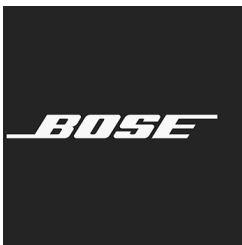
Problem	What to do
No power	<ul style="list-style-type: none"> • Plug in IEC power cord • Check mains power
Power is on, but no sound	<ul style="list-style-type: none"> • Verify that there is an input signal from the source using ControlSpace Designer software. The audio input metering should be in the green/yellow band. • Verify that there is an output signal. The audio output signal metering should be in the green/yellow band.
Sound is distorted	<ul style="list-style-type: none"> • Using ControlSpace Designer software, verify that the audio input signal indicator blocks are not showing solid red or flashing red. If they are, reduce the input pre-gain setting to where the input is no longer clipping (red). • Using ControlSpace Designer software, verify that the audio output signal indicator blocks are not solid red or flashing red. If they are, and the input indicators are green, use the Designer software to reduce the output gain or any intermediary gain in the signal path. • If the input source signal is clean when it enters the system, and the input and output indicators are green, verify that the loudspeakers are not being overdriven and are not damaged.
No EX-1280C network connectivity from ControlSpace Designer running on PC	<ul style="list-style-type: none"> • Verify that the EX-1280C processor is fully booted. The Power/Status indicator LED should appear solid white. • Verify that the LAN settings on the TCP/IP Ethernet device you are using on the PC are set correctly: <ul style="list-style-type: none"> • If not using a DHCP server, the IP address of the PC should be set manually to an unused IP address (e.g. 192.168.0.10). • The default IP Subnet mask is set to 255.255.255.0. • Check firewall settings on the PC, unblock all ports. • Verify that the proper Host Network Interface Card Name is selected in ControlSpace Designer Hardware Manager. • Verify that there is not another device connected to the network with the same IP address. • Refer to ControlSpace Designer Help for detailed steps to ensure the EX-1280C is on the same network as the PC running ControlSpace Designer.

TROUBLESHOOTING (CONT.)

Problem	What to do
Power LED remains red after booting	<ul style="list-style-type: none"> • Most often the result of a design file/firmware mismatch. • If necessary, retrieve saved design from the EX-1280C, then send a blank design to the EX-1280C. The LED should change to white. • Re-send the previous design after it has upgraded by importing the design into the latest version of CSD.
No EX-1280C network connectivity	<ul style="list-style-type: none"> • Ensure the EX-1280C is connected to the network using the RJ-45 jack labeled ControlSpace. • Check that the network activity LED built into the ControlSpace RJ-45 jack is illuminated or blinking to confirm an active network connection.
Unexpected EX-1280C IP address of 169.X.X.X or 172.X.X.X.X is shown in Network Settings – CS front panel menu	<ul style="list-style-type: none"> • The EX-1280C will default to these ranges if set to DHCP while no DHCP server is present on the network. Add a DHCP server to the network or change EX-1280C to a static IP address.
No AmpLink audio received from EX-1280C connected to an AmpLink-enabled amplifier	<ul style="list-style-type: none"> • Ensure shielded CAT-5 network cable is used for AmpLink and set the amplifier to receive AmpLink channels 1-8.
No EX-1280C Dante audio subscriptions or audio	<ul style="list-style-type: none"> • Ensure the EX-1280C's Dante IP address is on the same network as the EX-1280C's ControlSpace control IP address. This can be checked on the EX-1280C Config > Dante Info front panel menu (see page 25 for more information). To change the EX-1280C Dante IP, use Audinate's Dante Controller software. Sometimes it can be helpful to change the PC's network settings from static IP to DHCP to view and change the Dante IP address.

SERVICE MANUAL REVISION HISTORY

Date	Revision Level	Description of Change	Change Driven By	Page(s) Affected
12/21/2017	00	Document released at revision 00	Initial Release	ALL



Bose Corporation
100 The Mountain Road
Framingham Massachusetts USA 01701

Reference Number 772234-SM REV 00; 12/2017
<http://serviceops.bose.com>