

REFERENCE DESIGNATOR	QUANTITY	VALUE
!PCB1	1	
C1, C21, C23	3	0.1uF
C2, C4, C7, C13	4	0.68uF
C3, C24, C28, C30	4	15uF
C5	1	4.7uF
C6	1	0.1uF
C8, C10, C11, C12, C25, C27	6	0.22uF
C9, C32, C33	3	1uF
C14, C15, C16, C17	4	1uF
C18, C34	2	390uF
C19, C31	2	0.1uF
C20, C22	2	470uF
C26, C29	2	0.68uF
D1	1	Green
H1, H2, H7, H8	4	
H3, H4, H9, H10	4	
H5, H6, H11, H12	4	
J1, J10	2	
J2, J3	2	
J4, J8, J11	3	
J5	1	
J6	1	
J7	1	
J9	1	
L1, L2, L3, L4, L5, L6	6	10uH
R1	1	332
R2, R3, R4	3	10.0k
R5, R6	2	2.20k
R7, R8, R11, R14, R15	5	0
R9, R10, R16, R17	4	10.0k
R18	1	100k
R19	1	0
SH-J1, SH-J2, SH-J3	3	1x2
TP1, TP2	2	
TP3	1	
TP4, TP5, TP6, TP7, TP8, TP9, TP10	7	
U1	1	
U2	1	
U3	1	
FID1, FID2, FID3, FID4, FID5, FID6	0	
R12, R13	0	22.0k
R20	0	0

Notes:

## DESCRIPTION

Printed Circuit Board

CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603

CAP, CERM, 0.68 uF, 50 V, +/- 10%, X7R, 0805

CAP, CERM, 15 uF, 35 V, +/- 20%, X5R, 0805

CAP, CERM, 4.7 uF, 10 V, +/- 10%, X5R, 0603

CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603

CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603

CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0603

CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603

CAP, AL, 390 uF, 35 V, +/- 20%, 0.08 ohm, SMD

CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402

CAP, AL, 470 uF, 35 V, +/- 20%, SMD

CAP, CERM, 0.68 uF, 50 V, +/- 20%, X7R, 0805

LED, Green, SMD

MACHINE SCREW PAN PHILLIPS M3

Standoff, HexBrass M3, 30 mm

Washer, Flat, #4 Nylon

JUMPER TIN SMD

Header, 100mil, 2x1, Gold, TH

Header (friction lock), 3.96mm, 2x1, Tin, R/A, TH

Connector, 100 Pos. 0.635mm, SMT

Binding Post, RED, TH

Binding Post, BLACK, TH

Header, 100mil, 3x1, Gold, TH

Inductor, Shielded, Ferrite, 10 uH, 4.4 A, 0.0304 ohm, SMD

RES, 332, 1%, 0.063 W, AEC-Q200 Grade 0, 0402

RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402

RES, 2.20 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402

RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603

RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402

RES, 100 k, 1%, 0.1 W, 0402

RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402

Shunt, 100mil, Gold plated, Black

Test Point, Compact, SMT

Test Point, Miniature, Black, TH

Test Point, Miniature, Orange, TH

4.5 V to 26.4 V, Inductor-Less, Digital Input, Stereo, Closed-Loop Class-D Audio Amplifier with 96-kHz/192-kHz Ex

Closed Loop I2S Input Amplifier with Power Limiter, PVDDmax of 26.4V, RSM0032B (VQFN-32)

EEPROM, 512KBIT, 400KHZ, 8TSSOP

Fiducial mark. There is nothing to buy or mount.

RES, 22.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603

RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402

<b>PACKAGE REFERENCE</b>	<b>PART NUMBER</b>	<b>MANUFACTURER</b>
	AMPS078	Any
0603	GRM188R71H104KA93D	MuRata
0805	C0805C684K5RACTU	Kemet
0805	C2012X5R1V156M125AC	TDK
0603	C0603C475K8PACTU	Kemet
0603	C0603C104K4RACTU	Kemet
0603	GCM188R71H224KA64D	MuRata
0603	C0603C105K4PACTU	Kemet
0603	GRM188R71C105KA12D	MuRata
10x10	UCL1V391MNL1GS	Nichicon
0402	CGA2B3X7R1H104K050BB	TDK
KE0	EMVE350ATR471MKE0S	Chemi-Con
0805	C2012X7R1H684M125AB	TDK
LED_0805	LTST-C170KGKT	Lite-On
M3 Screw	RM3X8MM 2701	APM HEXSEAL
Spacer M3, 30mm	R30-1003002	Harwin
	3200	Keystone
6.85x0.97x2.51 mm	S1911-46R	Harwin
Sullins 100mil, 1x2, 230 mil above insulator	PBC02SAAN	Sullins Connector Solutions
Header, 2x1, 3.96mm, R/A	B2PS-VH(LF)(SN)	JST Manufacturing
Connector, 1575x235x280 mil	QTS-050-01-F-D-A	Samtec
11.4x27.2mm	7006	Keystone
11.4x27.2mm	7007	Keystone
PBC03SAAN	PBC03SAAN	Sullins Connector Solutions
	1274AS-H-100M=P3	MuRata
0402	CRCW0402332RFKED	Vishay-Dale
0402	CRCW040210K0FKED	Vishay-Dale
0402	CRCW04022K20FKED	Vishay-Dale
0603	CRCW06030000Z0EA	Vishay-Dale
0402	RMCF0402FT10K0	Stackpole Electronics Inc
0402	ERJ-2RKF1003X	Panasonic
0402	ERJ-2GE0R00X	Panasonic
Shunt	SNT-100-BK-G	Samtec
Testpoint_Keystone_Compact	5016	Keystone
Black Miniature Testpoint	5001	Keystone
Orange Miniature Testpoint	5003	Keystone
RHB0032N	TAS5825MRHBR	Texas Instruments
RSM0032B	TAS5720MRSMR	Texas Instruments
TSSOP-8	24LC512-I/ST	Microchip
N/A	N/A	N/A
0603	ERJ-3EKF2202V	Panasonic
0402	ERJ-2GE0R00X	Panasonic



LEAD FREE STATUS	LEAD FREE STATUS (GREENSOFT)	REACH STATUS (DIGI-KEY)
	LEAD FREE	
LEAD FREE	LEAD FREE	REACH NOT AFFECTED
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**REACH STATUS (GREENSOFT) REACH EFFECTIVE DATE (DIGI-KEY)**

REACH NOT AFFECTED	
REACH NOT AFFECTED	Jun-2016
REACH NOT AFFECTED	Jan-2017
	Jan-2017
REACH NOT AFFECTED	Jan-2017
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REACH NOT AFFECTED	Jan-2017
REACH NOT AFFECTED	Jun-2016
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REACH NOT AFFECTED	Jul-2017
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REACH NOT AFFECTED	Jan-2017
REACH NOT AFFECTED	

**DESCRIPTION (DIGI-KEY)****MANUFACTURER (DIGI-KEY)**

CAP CER 0.1UF 50V X7R 0603	Murata Electronics North America
CAP CER 0.68UF 50V X7R 0805	KEMET
CAP CER 15UF 35V X5R 0805	TDK Corporation
CAP CER 4.7UF 10V X5R 0603	KEMET
CAP CER 0.1UF 16V X7R 0603	KEMET
CAP CER 0.22UF 50V X7R 0603	Murata Electronics North America
CAP CER 1UF 16V X5R 0603	KEMET
CAP CER 1UF 16V X7R 0603	Murata Electronics North America
CAP ALUM 390UF 20% 35V SMD	Nichicon
CAP CER 0.1UF 50V X7R 0402	TDK Corporation
CAP CER 0.68UF 50V X7R 0805	TDK Corporation
LED GREEN CLEAR SMD	Lite-On Inc.
MACH SCREW PAN HEAD PHILLIPS M3	APM Hexseal
HEX STANDOFF M3X0.5 BRASS 30MM	Harwin Inc.
WASHER FLAT #4 NYLON	Keystone Electronics
JUMPER TIN SMD	Harwin Inc.
CONN HEADER VERT 2POS 2.54MM	Sullins Connector Solutions
CONN HEADER R/A 2POS 3.96MM	JST Sales America Inc.
CONN HEADER 100POS .635MM SMT	Samtec Inc.
CONN BIND POST KNURLED RED	Keystone Electronics
CONN BIND POST KNURLED BLACK	Keystone Electronics
CONN HEADER VERT 3POS 2.54MM	Sullins Connector Solutions
FIXED IND 10UH 4.4A 30.4 MOHM	Murata Electronics North America
RES SMD 332 OHM 1% 1/16W 0402	Vishay Dale
RES SMD 10K OHM 1% 1/16W 0402	Vishay Dale
RES SMD 2.2K OHM 1% 1/16W 0402	Vishay Dale
RES SMD 0 OHM JUMPER 1/10W 0603	Vishay Dale
RES 10K OHM 1% 1/16W 0402	Stackpole Electronics Inc
RES SMD 100K OHM 1% 1/10W 0402	Panasonic Electronic Components
RES SMD 0 OHM JUMPER 1/10W 0402	Panasonic Electronic Components
CONN SHUNT 2POS	Samtec Inc.
PC TEST POINT COMPACT	Keystone Electronics
PC TEST POINT MINIATURE BLACK	Keystone Electronics
PC TEST POINT MINIATURE ORANGE	Keystone Electronics
CLASS-D AUDIO AMPLIFIER	Texas Instruments
IC AMP AUDIO 20W MONO 32VQFN	Texas Instruments
IC EEPROM 512K I2C 8TSSOP	Microchip Technology
RES SMD 22K OHM 1% 1/10W 0603	Panasonic Electronic Components
RES SMD 0 OHM JUMPER 1/10W 0402	Panasonic Electronic Components

**MANUFACTURER PART NUMBER (DIGI-KEY)    DIGI-KEY PART NUMBER (DIGI-KEY)**

GRM188R71H104KA93D	490-1519-1-ND
C0805C684K5RACTU	399-8114-1-ND
C2012X5R1V156M125AC	445-14423-1-ND
C0603C475K8PACTU	399-5503-1-ND
C0603C104K4RACTU	399-1096-1-ND
GCM188R71H224KA64D	490-5402-1-ND
C0603C105K4PACTU	399-5090-1-ND
GRM188R71C105KA12D	490-3900-1-ND
UCL1V391MNL1GS	493-3960-1-ND
CGA2B3X7R1H104K050BB	445-6899-1-ND
C2012X7R1H684M125AB	445-7546-1-ND
LTST-C170KGKT	160-1414-1-ND
RM3X8MM 2701	335-1149-ND
R30-1003002	952-2610-ND
3200	36-3200-ND
S1911-46R	952-1740-1-ND
PBC02SAAN	S1011E-02-ND
B2PS-VH(LF)(SN)	455-1648-ND
QTS-050-01-F-D-A	SAM10675-ND
7006	36-7006-ND
7007	36-7007-ND
PBC03SAAN	S1011E-03-ND
1274AS-H-100M=P3	490-10846-1-ND
CRCW0402332RFKED	541-332LCT-ND
CRCW040210K0FKED	541-10.0KLCT-ND
CRCW04022K20FKED	541-2.20KLCT-ND
CRCW06030000Z0EA	541-0.0GCT-ND
RMCF0402FT10K0	RMCF0402FT10K0CT-ND
ERJ-2RKF1003X	P100KLCT-ND
ERJ-2GE0R00X	P0.0JCT-ND
SNT-100-BK-G	SAM8858-ND
5016	36-5016CT-ND
5001	36-5001-ND
5003	36-5003-ND
TAS5825MRHBR	296-51628-1-ND
TAS5720MRSMR	TAS5720MRSMR-ND
24LC512-I/ST	24LC512-I/ST-ND
ERJ-3EKF2202V	P22.0KHCT-ND
ERJ-2GE0R00X	P0.0JCT-ND

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