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### Wireless Subwoofer Amplifier

Designator	Description	Manufacturer	PartNumber	Quantity
!PCB1	Printed Circuit Board	Any	SAT0018	1
*1	STRAIN RELIEF 26POS SOCKET CONN	TE Connectivity	499252-3	1
*2	CONN IDC SKT 26POS W/POL 15 GOLD	TE Connectivity	1658621-6	1
*3	CABLE 26 COND 5' MULTI RIBBON	Assmann WSW Components	AE26M-5-ND	1
C1, C2, C5, C7, C10, C12, C15, C18, C20, C31	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	TDK	C1608X7R1C104K	10
C3, C4, C16	CAP, CERM, 10uF, 10V, +/-10%, C0G/NP0, 0603	TDK	C1608X5R1A106M	3
C6, C17	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	Kemet	C0603C105K4PACTU	2
C8, C13	CAP, CERM, 470pF, 50V, +/-5%, C0G/NP0, 0603	TDK	C1608C0G1H471J	2
C9, C14	CAP, CERM, 0.022uF, 25V, +/-10%, X7R, 0603	Kemet	C0603C223K3RACTU	2
C11	CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805	Kemet	C0805C106K8PACTU	1
C19, C23, C32	CAP CER 2200PF 50V 10% X7R 0402	Taiyo Yuden	UMK105B7222KV-F	3
C21	CAP, CERM, 10uF, 6.3V, +/-20%, X5R, 0603	Kemet	C0603C106M9PACTU	1
C22	CAP, CERM, 0.1uF, 6.3V, +/-10%, X5R, 0402	MuRata	GRM155R60J104KA01D	1
C24, C25	CAP, CERM, 4.7pF, 50V, +/-5%, C0G/NP0, 0603	AVX	06035A4R7CAT2A	2
C26, C27, C28, C29, C30	CAP, CERM, 0.22uF, 6.3V, +/-20%, X5R, 0402	TDK	C1005X5R0J224M	5
C33, C36	CAP, CERM, 0.15uF, 25V, +/-10%, X7R, 0805	AVX	08053C154KAT2A	2
C34, C37	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	TDK Corporation	C3225X7R1H225M/2.50	2
C35	CAP, CERM, 22uF, 25V, +/-20%, X7R, 1812	TDK	C4532X7R1E226M	1
C38	CAP, CERM, 47uF, 10V, +/-10%, X5R, 1210	MuRata	GRM32ER61A476KE20L	1
C39, C41	CAP, CERM, 10uF, 35V, +/-10%, X7R, 1210	MuRata	GRM32ER7YA106KA12L	2
C40, C42	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	TDK Corporation	C1005Y5V1H103Z	2
D1	LED, Blue, SMD	Rohm	SMLP12BC7TT86	1
D2	LED, Yellow, SMD	Rohm	SML-P12YTT86	1
D3	Diode, Schottky, 40V, 1A, SOD-123	Diodes Inc.	1N5819HW-7-F	1
D4, D7	Diode, Schottky, 60V, 1A, SMB	International Rectifier	10BQ060TRPBF	2
D5	LED RED 0.2MM 60MCD 0402 SMD	Rohm Semiconductor	SML-P12VTT86	1
D6	LED, Green, SMD	Lumex	SML-LX0603GW-TR	1
FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3
H1, H2, H5, H6	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	4
H3, H4, H7, H8	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	4
J1	RCA Jack, Vertical, White, TH	CUI Inc.	RCJ-023	1
J2	RCA Jack, Vertical, Red, TH	CUI Inc.	RCJ-022	1
J3	Header (shrouded), 100mil, 13x2, Gold plated, TH	3M	N2526-6002-RB	1
J4, J6, J12, J13, J17	Header, TH, 100mil, 2x1, Gold plated, 230 mil above insulator	Samtec, Inc.	TSW-102-07-G-S	5
J5	CONN, UNSHROUDED HEADER, HDR 10 POS 1.27MM SOLDER RA SMD	Samtec	FTSH-105-01-F-DH	1
J7, J8, J9, J10, J11, J14	Header, TH, 100mil, 1x3, Gold plated, 230 mil above insulator	Sullins Connector Solutions	PBC03SAAN	6
J15	Receptacle, 50mil, 6x1, R/A, TH	Mill-Max	851-43-006-20-001000	1
J16	Conn Term Block, 2POS, 3.81mm PCB	Phoenix Contact	1727010	1
J18	Connector, DIN, 8pin, R/A, TH	TE Connectivity	5212047-1	1

Designator	Description	Manufacturer	PartNumber	Quantity
L1	Inductor, Shielded Drum Core, Ferrite, 47uH, 2.2A, 0.13 ohm, SMD	Coilcraft	MSS1038-473MLB	1
L2	Inductor, Shielded Drum Core, Ferrite, 15uH, 1.78A, 0.06 ohm, SMD	Coilcraft	MSS7341-153MLB	1
LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Brady	THT-14-423-10	1
P1, P2	SAMTEC - TFM-110-02-L-D-A - HEADER, 1.27MM, SMT, 2X10POS	SAMTEC	TFM-110-02-L-D-A	2
R1	RES, 1.0 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04021R00JNED	1
R2	RES, 4.7 ohm, 5%, 0.25W, 0805	Bourns	CRM0805-JW-4R7ELF	1
R6, R14, R15, R19	RES, 4.99k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K99FKEA	4
R7, R16	RES, 100 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07100RL	2
R8, R9, R10, R11, R12, R13	RES, 33k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040233K0JNED	6
R17, R18, R34, R37, R38	RES, 0.0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06031R00JNEA	5
R20, R21, R22	RES, 100k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW0402100KJNED	3
R23, R33	RES, 47.0k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-0747KL	2
R28	RES, 133 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402133RFKED	1
R29, R35, R42, R43, R50, R51, R55, R56, R57	RES, 0 ohm, 5%, 0.1W, 0603	Panasonic	ERJ-3GEY0R00V	9
R30, R31, R32, R41	RES, 47k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040247K0JNED	4
R36	RES, 487 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402487RFKED	1
R39, R40, R49	RES, 1.0k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04021K00JNED	3
R44, R52	RES, 100k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402100KFED	2
R45	RES, 14.7k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040214K7FKED	1
R46, R47	RES, 5.1k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04025K10JNED	2
R48	RES, 3.01k ohm, 1%, 0.2W, 0603	Panasonic	ERJ-P03F3011V	1
R53	RES, 5.62k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04025K62FKED	1
R54	RES, 1.02k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021K02FKED	1
R58	RES, 36k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040236K0JNED	1
R59	RES, 20.5k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040220K5FKED	1
SW1, SW2, SW3	Switch, Push Button, SMD	Alps		3

Designator	Description	Manufacturer	PartNumber	Quantity
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28	Test Point, Miniature, Blue, TH	Keystone	5117	28
TP29, TP33, TP34, TP37	Test Point, TH, Miniature, Black	Keystone	5001	4
TP30, TP31, TP32, TP35, TP36, TP38	Test Point, Miniature, Red, TH	Keystone	5000	6
U1	SINGLE-ENDED, ANALOG-INPUT 24-BIT, 96-kHz STEREO A/D CONVERTER, PW0014A	Texas Instruments	PCM1808PW	1
U2	IC SWITCH DUAL SPDT 10UQFN	Texas Instruments	TS5A23157RSER	1
U3	IC MUX/DMUX VIDEO SW QUAD 16-QFN	Texas Instruments	TS3V330RGYR	1
U4	IC BUFF/DVR SGL 5V OD SOT23-5	Texas Instruments	SN74LVC1G07-Q1	1
U5	IC MCU 16BIT 8K FLASH 28-TSSOP	Texas Instruments	MSP430F2132IPWR	1
U6	CRYSTAL 11.2896 MHZ 18PF	TXC CORPORATION	9B-11.2896MEEJ-B	1
U7	Single Inverter Gate, DBV0005A	Texas Instruments	SN74LVC1G04QDBVRQ1	1
U8, U9	IC REG BUCK ADJ 0.6A 6TSOT	Texas Instruments	LMR14206XMKE/NOPB	2
U10	IC REG LDO ADJ 0.15A 8MSOP	Texas Instruments	TPS7A4901DGNT	1

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