

# Bill of Materials

<Parameter Owner not found>

Revision: 1.3

Project:

aWE-HSD002.PrjPcb

Source Data From:

aWE-HSD002.PrjPcb

Variant:

None



BOM Report Generated:  
Last Project Modification Date:

10/21/2019  
10/21/2019

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NPE BOM Template Rev 2.3

#	Quantity	Designator	MFG_NAME01	MFG_PN01	Description	DNP
1	1	BAT1	LiPol Battery	LP702020+NTC	20 x 20 x 7; 230mAh	
2	2	C1, C4	Kemet	C0402C103K5RALTU	CAP CER 10000PF 50V X7R 0402	
3	5	C2, C10, C12, C23, C27	Murata	GRT155R61E105KE01D	CAP CER 1UF 25V X5R 0402	
4	6	C3, C7, C14, C15, C22, C28	YAGEO	CC0402KRX7R7BB104	CAP CER 0.1UF 16V X7R 0402	
5	1	C5	TDK	C3216X5R1A107M160AC	CAP CER 100UF 10V X5R 1206	
6	2	C6, C20	Johanson Technology Inc.	250R05L1R2BV4T	CAP CER 1.2PF 25V C0G/NP0 0201	
7	1	C8	Johanson Technology Inc.	250R05L2R0BV4T	CAP CER 2PF 25V C0G/NP0 0201	
8	1	C9	AVX Corporation	12065A272JAT2A	CAP CER 2700PF 50V C0G/NP0 1206	
9	2	C13, C17	AVX Corporation	04025A120GAT2A	CAP CER 12PF 50V C0G/NP0 0402	
10	1	C16	Yageo	CC0402KRX5R5BB475	CAP CER 4.7UF 6.3V X5R 0402	
11	1	C18	Kemet	C0402C101J8GAC7867	CAP CER 100PF 10V NP0 0402	
12	0	C19	Kemet	C0402C101J8GAC7867	CAP CER 100PF 10V NP0 0402	DNP
13	2	C21, C25	Kemet	C0402C104K3RAC7867	CAP CER 0.1UF 25V X7R 0402	
14	1	C24	Samsung Electro-Mechanics	CL05A225MQ5NNNC	CAP CER 2.2UF 6.3V X5R 0402	
15	0	C26	Johanson Technology Inc.	250R05L1R8BV4T	CAP CER 1.8PF 25V C0G/NP0 0201	DNP
16	1	D1	Diodes Inc	SD05-7	TVS DIODE 5V 14.5V SOD323	
17	1	J1	Molex	1054500101	CONN RCP USB3.1 TYPEC 24P SMD RA	
18	1	L2	TDK Corporation	WR121210-27M8-NP	RX 1 COIL 1 LAYER 8.32UH; 20mm wire	
19	1	L3	Würth Electronics Inc	74279273	FERRITE BEAD 20 OHM .30A 0402	
20	1	L4	Johanson Technology Inc.	L-05B5N6SV6T	FIXED IND 5.6NH 300MA 600 MOHM	
21	1	L5	Bourns Inc.	SRF2012-900YA	CMC 400MA 2LN 90 OHM SMD	
22	1	LED1	Lite-On Inc.	LTST-C235KGKRKT	LED GREEN/RED CLEAR CHIP SMD	
23	1	PCB1	Various	AWE Charger PCB Rev 1.2	AWE PCB	
24	1	Q1	Vishay Siliconix	SI2312CDS-T1-GE3	MOSFET N-CH 20V 6A SOT-23	
25	1	Q2	Diodes, Inc	2N7002-7-F	MOSFET N-CH 60V 115MA SOT23-3	
26	1	R1	Susumu	RL1220S-R33-F	RES 0.33 OHM 1% 1/3W 0805	
27	0	R2	Yageo	RC0402FR-0710KL	RES SMD 10K OHM 1% 1/16W 0402	DNP
28	3	R5, R6, R22	Yageo	RC0402FR-0710KL	RES SMD 10K OHM 1% 1/16W 0402	
29	2	R9, R23	Yageo	RC0402FR-073K09L	RES SMD 3.09K OHM 1% 1/16W 0402	
30	1	R10	Yageo	RC0402FR-078K87L	RES SMD 8.87K OHM 1% 1/16W 0402	
31	1	R11	Yageo	RC0402JR-070RL	RES SMD 0 OHM JUMPER 1/16W 0402	
32	2	R12, R13	Yageo	RC0402FR-07261RL	RES SMD 261 OHM 1% 1/16W 0402	
33	1	R14	Vishay Dale	CRCW04023M90FKED	RES SMD 3.9M OHM 1% 1/16W 0402	
34	1	R15	Vishay Dale	CRCW04022M00FKED	RES SMD 2M OHM 1% 1/16W 0402	
35	1	R19	Yageo	RC0402FR-0724KL	RES SMD 24K OHM 1% 1/16W 0402	
36	2	R20, R21	Yageo	RC0402FR-075K1L	RES SMD 5.1K OHM 1% 1/16W 0402	

37	1	R24	Yageo	RC0402FR-07100KL	RES SMD 100K OHM 1% 1/16W 0402		
38	1	U2	Texas Instruments	BQ24075RGTT	1.5 A USB-Friendly Li-Ion Battery Charger and Power-Path		
39	1	U4	Diodes Incorporated	ZXGD3009E6TA	IC GATE DRVR IGBT/MOSFET SOT23-6		
40	1	U5	On Semi	NCV213RSQT2G	IC CURR SENSE 1 CIRCUIT SC88		
41	1	U6	Nordic Semiconductor	nRF52810-QCAA	Multi-protocol Bluetooth Low Energy, ANT and 2.4GHz proprietary		
42	1	U7	Diodes Inc	AP2210N-3.3TRG1	IC REG LINEAR 3.3V 300MA SOT23-3		
43	1	U8	Rohm Semiconductor	BU52272NUZ-ZE2	OMNIPOLAR DETECTION HALL IC		
44	1	U10	NEXPERIA	74LVC1G123GS,115	IC MULTIVIBRATOR MONO 8XSON		
45	1	X1	ECS Inc.	ECS-320-8-47-CKM-TR	CRYSTAL 32MHZ 8PF SMD		
						<b>Total Components:</b>	<b>60</b>
<b>Approved</b>				<b>Notes</b>			