

**TIDA-00623 REV E1 Bill of Materials**

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-00623	Any	Printed Circuit Board	
2	C1, C4, C6	3	22uF	GRM21BR61E226ME44	MuRata	CAP, CERM, 22uF, 25V, +/-20%, X5R, 0805	0805
3	C2, C5, C7, C11, C20, C22, C23, C24	8	0.1uF	C1608X7R1E104K	TDK	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
4	C3	1	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7R, 0603	0603
5	C9	1	1000pF	C1608C0G1H102J	TDK	CAP, CERM, 1000pF, 50V, +/-5%, C0G/NP0, 0603	0603
6	C10, C18	2	0.047uF	C1608X7R1H473K	TDK	CAP, CERM, 0.047uF, 50V, +/-10%, X7R, 0603	0603
7	C12	1	0.022uF	C1608X7R1H223K	TDK	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
8	C13	1	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
9	C14, C16, C17, C19	4	0.1uF	C3216C0G2A104J160AC	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 5%, C0G/NP0, 1206_190	1206_190
10	C15	1	2700pF	C1608C0G1H272J	TDK	CAP, CERM, 2700pF, 50V, +/-5%, C0G/NP0, 0603	0603
11	C21	1	2.2uF	GRM188R61C225KE15D	MuRata	CAP, CERM, 2.2uF, 16V, +/-10%, X5R, 0603	0603
12	C25	1	0.47uF	GRM188R71A474KA61D	MuRata	CAP, CERM, 0.47uF, 10V, +/-10%, X7R, 0603	0603
13	D1, D6	2	Green	150060GS75000	Würth Elektronik	LED, Green, SMD	LED_0603
14	D2, D3	2	100V	MMDL914-TP	Micro Commercial Components	Diode, Switching, 100V, 0.2A, SOD-323	SOD-323
15	D4	1	Yellow	150060YS75000	Würth Elektronik	LED, Yellow, SMD	LED_0603
16	D5	1	Red	150060SS75000	Würth Elektronik	LED, Super Red, SMD	LED_0603
17	H1	1		MCH002	Any	Cover, Plastic Polycarbonate, 2.75" Square, 0.93 thick	
18	H2, H5, H8, H11	4	4800		Keystone	Standoff, Nylon, Female to Male, 4-40 x 1/4"	4-40 x 1/4"
19	H3, H6, H9, H12, H17, H20	6	2563		Voltrex	Mounting Feet, 0.25" tall	
20	H4	1		MCH003	Any	Plate, aluminum 2.0"x2.0"x0.062"	
21	H7	1		GP1500-0.020-00-0816	Bergquist	Sil-Pad Cut to Size 2.0" Square	See Assy Note ZZ5
22	H10	1		SA-1000	Bergquist	Adhesive, Thermally Conductive Silicone	See Assy Note ZZ6
23	H13, H15, H18, H21	4		NY HN 440	B&F Fastener Supply	Nut #4-40 Hex Nylon	4-40
24	H14, H16, H19, H22	4		Any	Any	Screw, steel zinc, flathead 4-40 machine, 0.250"	4-40 x 1/4"
25	J1, J3	2		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
26	J2	1		105017-0001	Molex	Receptacle, Micro-USB-B, Right Angle, SMD	Micro USB receptacle
27	L1	1	6.3uH	760308111	Würth Elektronik	Inductor, 6.3 uH, 13 A, 0.017 ohm, TH	TH, Dia 53mm, Pin spacing 14.2mm
28	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
29	NTC1	1	10.0k ohm	NTCG163JF103F	TDK	Thermistor NTC, 10.0k ohm, 1%, 0603	0603
30	R1	1	113k	RN73H1ETTP1133B50	KOA Speer	RES, 113 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
31	R2	1	7.50k	ERA-2AEB752X	Panasonic	RES, 7.50 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
32	R3	1	24.9k	CRCW040224K9FKED	Vishay-Dale	RES, 24.9 k, 1%, 0.063 W, 0402	0402
33	R4, R9, R17, R19	4	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
34	R5	1	80.6k	CRCW040280K6FKED	Vishay-Dale	RES, 80.6 k, 1%, 0.063 W, 0402	0402
35	R6	1	69.8k	CRCW040269K8FKED	Vishay-Dale	RES, 69.8 k, 1%, 0.063 W, 0402	0402
36	R7, R12, R20, R24	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
37	R8, R16	2	0.2	ERJ-S6SJR20V	Panasonic	RES, 0.2 ohm, 5%, 0.25W, 0805	0805
38	R10	1	499k	CRCW0402499FKED	Vishay-Dale	RES, 499 k, 1%, 0.063 W, 0402	0402
39	R11	1	2.00	CRCW04022R00FKED	Vishay-Dale	RES, 2.00, 1%, 0.063 W, 0402	0402
40	R13	1	76.8k	ERA-2AEB7682X	Panasonic	RES, 76.8 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
41	R14	1	10.0k	PCF0402-12-10KBT1	TT Electronics/IRC	RES, 10.0 k, 0.1%, 0.063 W, 0402	0402
42	R15, R21, R22	3	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
43	R18	1	0.02	LVK12R020DER	Ohmite	RES, 0.02, 0.5%, 0.5 W, 1206 sense	1206 sense
44	R23	1	200k	CRCW0402200KFKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, 0402	0402
45	TP6, TP7	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
46	U1	1		bq500511	Texas Instruments	BQ500511RHA, RHA0040A	RHA0040A
47	U2	1		bq50002	Texas Instruments	4.2V to 5.5V Input, 3A Full Bridge, 2 Channel Analog Demodulation Wireless Power TX-Driver for Wireless Charging Applications, RHB0032E	RHB0032E
48	C8	0	0.1uF	C1608X7R1E104K	TDK	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
49	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
50	R25, R26	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402

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