

TIDA-01574 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		TIDA-01574	Any	Printed Circuit Board	
2	BT1	1		1012	Keystone	Battery holder for 2AA, SMD	Battery holder for 2AA, SMD
3	C1, C2	2	0.068uF	C1608X7S2A683K080AB	TDK	CAP, CERM, 0.068 uF, 100 V, +/- 10%, X7S, 0603	0603
4	C4, C5	2	820uF	EEU-TP1V821B	Panasonic	CAP, AL, 820 uF, 35 V, +/- 20%, 0.03 ohm, AEC-Q200 Grade 1, TH	D12.5xL25mm
5	C6, C7, C20, C21	4	2.2uF	GRM31CR71H225KA88L	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206	1206
6	C8, C11	2	0.01uF	C0603C103J3GCEAUTO	Kemet	CAP, CERM, 0.01 uF, 25 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
7	C9	1	2700pF	GRM188R71E272KA01D	MuRata	CAP, CERM, 2700 pF, 25 V, +/- 10%, X7R, 0603	0603
8	C10	1	22pF	06035A220JAT2A	AVX	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
9	C12, C13	2	22uF	C3216X5R0J226M085AC	TDK	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X5R, 1206	1206
10	C14, C15	2	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0603	0603
11	C16, C22, C23	3	22uF	GRM21BR61A226ME44L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0805	0805
12	C17	1	2.2uF	C2012X7R1C225K125AB	TDK	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0805	0805
13	C19	1	0.1uF	GRM21BR72A104KAC4L	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
14	D1	1	200V	DF1502S-T	Diodes Inc.	Diode, Switching-Bridge, 200 V, 1.5 A, DF-S	DF-S
15	D2	1	40V	B240-13-F	Diodes Inc.	Diode, Schottky, 40 V, 2 A, SMB	SMB
16	D5	1	33V	SMBJ33A-13-F	Diodes Inc.	Diode, TVS, Uni, 33 V, 53.3 Vc, SMB	SMB
17	H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bump, Hemisphere, 0.44 X 0.20, Clear	Transparent Bump
18	J1, J3	2		39357-0002	Molex	Terminal Block, 3.5 mm, 2x1, Tin, TH	Terminal Block, 3.5 mm, 2x1, TH
19	L1	1	47uH	MSS1048-473MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 47 uH, 2.2 A, 0.13 ohm, SMD	MSS1048
20	L2	1	470nH	XFL4015-471MEC	Coilcraft	Inductor, Shielded, Composite, 470 nH, 3.5 A, 0.0076 ohm, SMD	SMD, 4x4x1.5mm
21	R1	1	2.00Meg	RC0603FR-072ML	Yageo America	RES, 2.00 M, 1%, 0.1 W, 0603	0603
22	R2	1	866k	CRCW0603866KFKEA	Vishay-Dale	RES, 866 k, 1%, 0.1 W, 0603	0603
23	R3	1	30k	CRCW060330K0JNEA	Vishay-Dale	RES, 30 k, 5%, 0.1 W, 0603	0603
24	R4	1	267k	RT0603BRD07267KL	Yageo America	RES, 267 k, 0.1%, 0.1 W, 0603	0603
25	R5	1	6.65Meg	CRCW06036M65FKEA	Vishay-Dale	RES, 6.65 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R6	1	226k	RC0603FR-07226KL	Yageo America	RES, 226 k, 1%, 0.1 W, 0603	0603
27	R7	1	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
28	R8	1	237k	CRCW0603237KFKEA	Vishay-Dale	RES, 237 k, 1%, 0.1 W, 0603	0603
29	R9	1	36.5k	CRCW060336K5FKEA	Vishay-Dale	RES, 36.5 k, 1%, 0.1 W, 0603	0603
30	R10	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
31	R11	1	76.8k	CRCW060376K8FKEA	Vishay-Dale	RES, 76.8 k, 1%, 0.1 W, 0603	0603
32	R12	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603
33	R13, R14	2	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
34	R16	1	12k	CRCW060312K0JNEA	Vishay-Dale	RES, 12 k, 5%, 0.1 W, 0603	0603
35	R17	1	22k	CRCW060322K0JNEA	Vishay-Dale	RES, 22 k, 5%, 0.1 W, 0603	0603
36	R18	1	120k	CRCW0603120KJNEA	Vishay-Dale	RES, 120 k, 5%, 0.1 W, 0603	0603
37	R21	1	316k	CRCW0603316KFKEA	Vishay-Dale	RES, 316 k, 1%, 0.1 W, 0603	0603
38	R22	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
39	TP1, TP5	2		5008	Keystone	Test Point, Compact, Orange, TH	Orange Compact Testpoint
40	TP2, TP3, TP4, TP8, TP9, TP10	6		5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
41	TP6, TP7, TP12, TP13	4		5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
42	U1	1		TPS26625DRCR	Texas Instruments	7V - 57V, 800mA Industrial eFuse with Integrated Reverse Polarity Protection, DRC0010J (VSON-10)	DRC0010J
43	U2	1		TPS54040ADGQ	Texas Instruments	3.5V to 42V Input, 0.5A Step-Down Converter with Eco-Mode, DGQ0010D (VSSOP-10)	DGQ0010D
44	U3	1		TPS61021ADSGR	Texas Instruments	3-A Boost Converter with 0.5-V Ultra Low Input Voltage, DSG0008A (WSON-8)	DSG0008A
45	U4	1		TPS22910AYZVR	Texas Instruments	5.5V, 2A, 61mQ Active-Low Load Switch With Reverse Current Protection, YZV0004ADAD (DSBGA-4)	YZV0004ADAD
46	U5	1		TPS22912CYZVR	Texas Instruments	5.5V, 2A, 61mQ Load Switch With Reverse Current Protection, YZV0004ADAD (DSBGA-4)	YZV0004ADAD
47	C3	0	2200pF	C0603C222K5RAC	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
48	C18	0	47uF	594D476X0016C2T	Vishay-Sprague	CAP, TA, 47 uF, 16 V, +/- 20%, 0.11 ohm, SMD	7132-28
49	D3, D4	0	20V	B120-13-F	Diodes Inc.	Diode, Schottky, 20 V, 1 A, SMA	SMA
50	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
51	R15	0	430k	CRCW0603430KJNEA	Vishay-Dale	RES, 430 k, 5%, 0.1 W, 0603	0603

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