

Variant: 001
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 TID #: N/A



TIDA-01528 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-01528	Any	Printed Circuit Board	
2	C1, C4	2	4.7uF	GRM219R61A475KE34D	MuRata	CAP, CERM, 4.7 uF, 10 V,+/- 10%, X5R, 0805	0805
3	C2, C5	2	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V,+/- 10%, X7R, 0402	0402
4	C3	1	1000000uF	EEC-RF0H105N	Panasonic	CAP, Electric Double Layer, 1F, 5.5 V,+80/-20%, 0.02 ohm, TH	D21.5xL9.5mm
5	C6	1	10uF	GRM188R60J106ME47D	MuRata	CAP, CERM, 10 uF, 6.3 V,+/- 20%, X5R, 0603	0603
6	D1, D2	2	Red	LTST-C190CKT	Lite-On	LED, Red, SMD	Red LED, 1.6x0.8x0.8mm
7	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
8	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
9	J1, J2, J7, J8, J16	5		SL 11 112 02G	Fischer Elektronik	Header, 2.54mm, 2x1, Gold, TH	TH, 2-Leads, Body 2.5x5.08mm, Pitch 2.54mm
10	J3, J5	2		SSQ-110-03-T-D	Samtec	Receptacle, 2.54mm, 10x2, Tin, TH	10x2 Receptacle
11	J4, J9, J11	3		1776275-2	TE Connectivity	Terminal Block, 3.5mm, 2x1, Tin, TH	Terminal Block, 3.5mm, 2x1, TH
12	J6, J10	2		SSQ-110-03-F-S	Samtec	Receptacle, 2.54mm, 10x1, Gold, TH	10x1 Receptacle
13	J12	1		502494-0670	Molex	Receptacle, 2mm, 6x1, Tin, R/A, SMT	Receptacle, 2mm, 6x1, R/A, SMT
14	J13, J14, J15	3		90121-0766	Molex	Header, 2.54mm, 6x1, Gold, R/A, TH	Header, 2.54mm, 6x1, R/A, TH
15	L1	1	22uH	NLFV25T-220K-PF	TDK	Inductor, Shielded, Ferrite, 22 uH, 0.105 A, 1 ohm, SMD	2.5x1.8x2mm
16	L2	1	10uH	MLZ2012N100LT000	TDK	Inductor, Multilayer, Ferrite, 10 uH, 0.11 A, 0.3 ohm, SMD	0805
17	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 x 0.200 inch
18	Q1, Q2, Q3	3	30V	NX3020NAKW,115	Nexperia	MOSFET, N-CH, 30 V, 0.18 A, SOT-323	SOT-323
19	R1	1	9.1Meg	CRCW06039M10JNEA	Vishay-Dale	RES, 9.1 M, 5%, 0.1 W, 0603	0603
20	R2	1	1.6Meg	CRCW06031M60JNEA	Vishay-Dale	RES, 1.6 M, 5%, 0.1 W, 0603	0603
21	R3	1	4.7Meg	CRCW06034M70JNEA	Vishay-Dale	RES, 4.7 M, 5%, 0.1 W, 0603	0603
22	R4	1	5.6Meg	CRCW06035M60JNEA	Vishay-Dale	RES, 5.6 M, 5%, 0.1 W, 0603	0603
23	R5	1	3.9Meg	CRCW06033M90JNEA	Vishay-Dale	RES, 3.9 M, 5%, 0.1 W, 0603	0603
24	R6	1	6.8Meg	CRCW06036M80JNEA	Vishay-Dale	RES, 6.8 M, 5%, 0.1 W, 0603	0603
25	R7	1	7.5Meg	CRCW06037M50JNEA	Vishay-Dale	RES, 7.5 M, 5%, 0.1 W, 0603	0603
26	R8, R9	2	75.0	RC0603FR-0775RL	Yageo America	RES, 75.0, 1%, 0.1 W, 0603	0603
27	R10	1	10k	RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603	0603
28	TP1, TP2	2	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
29	TP3, TP4	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
30	U1	1		BQ25570RGRR	Texas Instruments	Ultra Low Power Harvester Power Management IC with Boost Charger, and Nanopower Buck Converter, RGR0020A (VQFN-20)	RGR0020A
31	U2	1		LM324AD	Texas Instruments	Quad Low Power Op Amp, D0014A	D0014A
32	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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1	!PCB	1		TIDA-01528	Any	Printed Circuit Board	
2	C1	1	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, X7R, 0603	0603
3	R1, R2	2	10k	RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603	0603
4	RT1	1	10.0k ohm	NTCG103JF103F	TDK	Thermistor NTC, 10.0k ohm, 1%, 0402	0402
5	U1	1		TMP303CDRLR	Texas Instruments	Factory Programmed Temperature Window Comparator, DRL0006A (SOT-OTHER-6)	DRL0006A

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