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TIDA-01069 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
2	!PCB BT1	1		TIDA-01069 2466	Any Keystone	Printed Circuit Board HOLDER BATTERY AAA, TH	AAA Battery Holder,
	511	·		2400	Reysione	HOLDER BRITERITY VVI, III	TH
3	C1, C5	2	1uF	C1005X5R1A105K050BB	TDK	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	0402
4	C2, C6	2	100pF	06035A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
5	C3, C7	2	33uF	C2012X5R1A336M125AC	TDK	CAP, CERM, 33 µF, 10 V, +/- 20%, X5R, 0805	0805
6	C4, C8	2	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
7	C10	1	150pF	GRM1885C1H151JA01D	MuRata	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
8	C11, C12	2	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
9	C13, C15, C36	3	330pF	GRM1555C1H331FA01J	MuRata	CAP, CERM, 330 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
10	C17	1	10uF	GRM188R60J106ME47D	MuRata	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603	0603
11	C18	1	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	0402
12	C19	1	10uF	GRM155R60G106ME44D	MuRata	CAP, CERM, 10 µF, 4 V, +/- 20%, X5R, 0402	0402
13	C20, C25	2	100uF	C3216X5R1A107M160AC	TDK	CAP, CERM, 100 μF, 10 V, +/- 20%, X5R, 1206_190	1206 190
14	C21, C26	2	1uF	06033C105KAT2A	AVX	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
15	C22, C23, C24, C27, C28, C29, C30, C31, C32, C33, C34, C35	12	0.1uF	0402YC104KAT2A	AVX	CAP, CERM, 0.1 μF, 16 V, +/- 10%, X7R, 0402	0402
16	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
17	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
18	H9	1		IML-0636	MuRata	Fresnel Lens	
19	H10	1		IML-0635	MuRata	Fresnel Lens	
20	J6, J7	2		87898-0204	Molex	Header, 2.54 mm, 2x1, Gold, R/A, SMT	Header, 2.54 mm,
	J6, J7 J10, J11	2				Header, 2.54 mm, 2x1, Gold, R/A, SMI Header, 100mil, 10x2, TH	Header, 2.54 mm, 2x1, R/A, SMT Header, 10x2.
21	310, 311	-		PEC10DAAN	Sullins Connector Solutions	ireauer, routill, ruxz, rn	Header, 10x2, 2.54mm, TH
22	L1	1	4.7uH	VLF302510MT-4R7M	TDK	Inductor, Shielded, Ferrite, 4.7 µH, 0.86 A, 0.168 ohm, SMD	IND 3x1x2.5mm
23	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 0.200"W
24	PIR1, PIR2	2		IRA-E700ST0	MuRata	Pyroelectric Infrared Sensor, TH	D9.2xH4.7mm
	Q1	1	-20V	SI2323DS	Vishay-Siliconix	MOSFET, P-CH, -20 V, -3.7 A, SOT-23	SOT-23
25							
26	R1, R7	2	1.30Meg	CRCW04021M30FKED	Vishay-Dale	RES, 1.30 M, 1%, 0.063 W, 0402	0402
27	R2, R8, R16, R23, R25	5	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
28	R3, R4, R5, R9, R10, R11, R18, R19, R20, R21	10	15Meg	RMCF0805JT15M0	Stackpole Electronics Inc	RES, 15 M, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
29	R6, R12	2	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, 0402	0402
30	R13, R14	2	150k	CRCW0402150KFKED	Vishay-Dale	RES, 150 k, 1%, 0.063 W, 0402	0402
31	R15	1	10.0Meg	CRCW080510M0FKEA	Vishay-Dale	RES, 10.0 M, 1%, 0.125 W, 0805	0805
32	R17, R22, R24	3	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
33	R26	1	300	CRCW0402300RJNED	Vishay-Dale	RES, 300, 5%, 0.063 W, 0402	0402
34	R27, R28, R29, R30, R31, R32	6	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
35	R33, R34, R35, R36, R37, R38	6	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
36	R39	1	10Meg	CRCW060310M0JNEA	Vishay-Dale	RES, 10 M, 5%, 0.1 W, 0603	0603
37	TP1, TP2	2	Tolvieg	5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone Miniature
38	TP3, TP4	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
39	U1, U2	2		OPA349SA/3K	Texas Instruments	1 uA, Rail-to-Rail, CMOS Operational Amplifier, 1.8 to 5.5 V, 0 to 85 degC, 5-pin SOT23 (DCK0005A), Green (RoHS & no Sb/Br)	DCK0005A
40	U3, U6	2		TLV369IDCKR	Texas Instruments	Cost-Optimized, 800-nA, 1.8-V, Rail-to-Rail I/O Operational Amplifier with Zero-Crossover Distortion, DCK0005A (SOT-5)	DCK0005A
41	U4, U5	2		TLV3691IDCKR	Texas Instruments	0.9-V to 6.5-V, Nanopower Comparator, DCK0005A (SOT-5)	DCK0005A
42	U7, U8	2		ADS1114IDGSR	Texas Instruments	Ultra-Small, Low-Power, I2C-Compatible, 860-SPS, 16-Bit ADCs With Internal Reference, Oscillator, and Programmable Comparator, DGS0010A (VSSOP-10)	DGS0010A
43	U9	1		TPS610981DSER	Texas Instruments	Ultra-Low Quiescent Current Synchronous Boost with Integrated LDO/Load Switch, DSE0006A (WSON-6)	DSE0006A
44	U10	1		HDC1010YPAR	Texas Instruments	Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor, YPA0008AGAE (DSBGA-8)	YPA0008AGAE
45	U11	1		OPT3002DNPR	Texas Instruments	OPT3002 Light to Digital Sensor, DNP0006A (USON-6)	DNP0006A
46	U14, U15, U16, U17, U18, U19, U21, U22	8		TPD1E10B06DPYR	Texas Instruments	ESD in 0402 Package with 10 pF Capacitance and 6 V Breakdown, 1 Channel, -40 to +125 degC, 2-pin X2SON (DPY), Green (RoHS & no Sb/Br)	DPY0002A
47	C9, C14, C16	0	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
48	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
49	J1, J2, J3, J4, J5	0		HMTSW-102-07-G-S-240	Samtec	Header, 100mil, 2x1, Gold, TH	Header, 2.54mm, 2 TH
	R40, R41	0	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402

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