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TIDA-01469 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC B1	1		TIDA-01469	Any	Printed Circuit Board	
2	BT1	1		BS-7	Memory Protection Devices	Battery Holder, CR2032, Retainer clip, TH	CR2032 holder
3	C1	1	1300pF	0402YC132KAT2A	AVX	CAP, CERM, 1300 pF, 16 V, +/- 10%, X7R, 0402	0402
4	C2	1	0.1uF	0402YC104KAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
5	C3	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0603	0603
6	C4	1	330 uF	GRM32ER60G337ME05L	Murata	CAP, CERM, 330 µF, 4 V, X5R, +/- 20%, 1210	1210
7	C5	1	10uF	C1608X5R0J106M	TDK	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603	0603
8	C6	1	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
9	C7	1	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
10	C8	1	0.01uF	C1005X7R1C103K050BA	TDK	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402
11	C9, C13	2	10uF	C0603C106M9PACTU	Kemet	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603	0603
12	C10, C11, C12, C14	4	1uF	C1005X7S1A105K050BC	TDK	CAP, CERM, 1 µF, 10 V, +/- 10%, X7S, 0402	0402
13	C15	1	47uF	C2012X5R1A476M125AC	TDK	CAP, CERM, 47 µF, 10 V, +/- 20%, X5R, 0805	0805
14	C16	1	1000pF	06031C102JAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 5%, X7R, 0603	0603
15	C17	1	1uF	06033C105KAT2A	AVX	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
16	C18	1	22uF	C1608X5R0G226M080AA	TDK	CAP, CERM, 22 µF, 4 V, +/- 20%, X5R, 0603	0603
17	J1, J2	2		PPPC102LFBN-RC	Sullins Connector Solutions	Receptacle, 100mil, 10x2, Gold, TH	10x2 Receptacle
18	J3	1		0878980204	Molex	Header, 2.54 mm, 2x1, Gold, R/A, SMT	Header, 2.54 mm, 2x1, R/A, SMT
19	L1	1		VLCF5024T-330MR50-2	TDK	Inductor, Shielded, Ferrite, 0.5 A, 0.275 ohm, SMD	Inductor, 5x2.4x5mm
20	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
21	Q1, Q2	2	-20V	SI2323DS	Vishay-Siliconix	MOSFET, P-CH, -20 V, -3.7 A, SOT-23	SOT-23
22	R1	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
23	R2, R5	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
24	R3	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
25	R4	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
26	R6	1	76.8k	CRCW040276K8FKED	Vishay-Dale	RES, 76.8 k, 1%, 0.063 W, 0402	0402
27	R7	1	10.0Meg	CRCW040210M0FKED	Vishay-Dale	RES, 10.0 M, 1%, 0.063 W, 0402	0402
28	R8, R9, R10, R12, R13, R15, R18	7	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R11	1	18.0k	CRCW040218K0FKED	Vishay-Dale	RES, 18.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
30	R14	1	1.21	CRCW04021R21FKED	Vishay-Dale	RES, 1.21, 1%, 0.063 W, 0402	0402
31	R16, R17	2	21.5	CRCW040221R5FKED	Vishay-Dale	RES, 21.5, 1%, 0.063 W, 0402	0402
32	SH-J1	1	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt
33	TP2, TP3	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
34	U1	1		OPA2325IDR	Texas Instruments	Precision, 10-MHz, Low-Noise, Low-Power, RRIO, CMOS Zero-Crossover Operational Amplifier, D0008A (SOIC-8)	D0008A
35	U2	1	350pF	66192CPZ1	IMI Sensors	Accelerometer, 350 pF, 10 kHz, TH	TO-5, 3-Leads
36	U3	1		TPS22860DBVR	Texas Instruments	TPS22860 Ultra-low leakage load switch, DBV0006A (SOT-23-6)	DBV0006A
37	U4	1		TPS61291DRVR	Texas Instruments	LOW Iq BOOST CONVERTER WITH BYPASS OPERATION, DRV0006A (WSON-6)	DRV0006A
38	U5	1		LMT01LPG	Texas Instruments	0.5degC Accurate 2-pin Temperature Sensor with a Pulse Train Interface, LPG0002A (TO-92-2)	LPG0002A
39	U6	1		REF5030AIDG4	Texas Instruments	Low Noise, Very Low Drift, Precision Voltage Reference, -40 to 125 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br)	D0008A
40	U7	1		ADS8866IDGSR	Texas Instruments	16-Bit, 100-kSPS, Serial Interface, microPower, Miniature, Single-Ended Input, SAR Analog-to-Digital, DGS0010A (VSSOP-10)	DGS0010A
41	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
42	TP4, TP5	0		5004	Keystone	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint

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