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TIDA-01424 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCBOARD	1		TIDA-01424	Any	Printed Circuit Board	
2	C1, C10	2	100uF	EMVA350ADA101MF80G	Chemi-Con	CAP, AL, 100 µF, 35 V, +/- 20%, SMD	F80
3	C2, C11	2	1500pF	GRM2165C2A152JA01D	MuRata	CAP, CERM, 1500 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
4	C3, C4, C6, C12, C13, C15	6	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
5	C5, C14	2	360pF	GRM1885C2A361JA01D	MuRata	CAP, CERM, 360 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
6	C7, C16	2	0.039uF	06033C393KAT2A	AVX	CAP, CERM, 0.039 µF, 25 V, +/- 10%, X7R, 0603	0603
7	C8	1	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 µF, 50 V, +/- 20%, X7R, 1210	1210
8	C9	1	4.7uF	C2012X7R1A475M125AC	TDK	CAP, CERM, 4.7 µF, 10 V, +/- 20%, X7R, 0805	0805
9	C17	1	0.01uF	0603ZC103KAT2A	AVX	CAP, CERM, 0.01 µF, 10 V, +/- 10%, X7R, 0603	0603
10	D1	1	40V	SS24FL	Fairchild Semiconductor	Diode, Schottky, 40 V, 2 A, AEC-Q101, SOD-123F	SOD-123F
11	D2	1	18V	SMA6J18AHM3/5A	Vishay-Semiconductor	Diode, TVS, Uni, 18 V, 28.3 Vc, AEC-Q101, SMA	SMA
12	J1, J2	2		SSQ-110-01-T-S	Samtec	Receptacle, 2.54mm, 10x1, Tin, TH	Receptacle, 2.54mm, 10x1, TH
13	J3, J6	2		OSTV/N02A150	On-Shore Technology	Terminal Block, 2.54mm, 2x1, Brass, TH	Terminal Block, 2.54mm, 2-pole, Brass, TH
14	J5	1		1776275-2	TE Connectivity	Terminal Block, 3.5mm, 2x1, Tin, TH	Terminal Block, 3.5mm, 2x1, TH
15	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
16	R1, R8	2	100	CRCW0805100RJNEA	Vishay-Dale	RES, 100, 5%, 0.125 W, 0805	0805
17	R2, R9	2	2.7k	CRCW12062K70JNEA	Vishay-Dale	RES, 2.7 k, 5%, 0.25 W, 1206	1206
18	R3, R10	2	3.0k	CRCW06033K00JNEA	Vishay-Dale	RES, 3.0 k, 5%, 0.1 W, 0603	0603
19	R4	1	976k	CRCW0603976KFKEA	Vishay-Dale	RES, 976 k, 1%, 0.1 W, 0603	0603
20	R5, R14, R15	3	15.8k	CRCW060315K8FKEA	Vishay-Dale	RES, 15.8 k, 1%, 0.1 W, 0603	0603
21	R6	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
22	R7	1	330k	CRCW0603330KJNEA	Vishay-Dale	RES, 330 k, 5%, 0.1 W, 0603	0603
23	S1	1		JS202011CQN	C&K Components	Slide Switch, DPDT, 0.3A 6VDC, TH	DPDT SW, 3.6x5.5x9mm
24	T1, T2	2	3mH	B78416A2232A003	TDK	Transformer, 3 mH, SMT	8.8x7.6mm
25	U1	1		TPS1H100AQPWPRQ1	Texas Instruments	40V/100mOhm Single Channel Smart High Side Switch, PWP0014F (TSSOP-14)	PWP0014F
26	U2, U4	2		PGA460TPWRQ1	Texas Instruments	PGA460TPWRQ1, PW0016A (TSSOP-16)	PW0016A
27	U3	1		TPS7B6933QDBVRQ1	Texas Instruments	High Voltage Ultra Low Iq - Low Drop Out Regulator, DBV0005A (SOT-5)	DBV0005A
28	U6	1		TPS3700QDDCRQ1	Texas Instruments	Automotive, High-Voltage (18V) Window Comparator with Over- and Undervoltage Detection, DDC0006A (SOT-6)	DDC0006A
29	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
30	R12	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603

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