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TIDA-03031 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-03031	Any	Printed Circuit Board	
2	C1	1	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	0603
3	C2, C12	2	1uF	GRM31MR71H105KA88L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 1206	1206
4	C3, C6	2	1uF	GRM31CR72A105KA01L	MuRata	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, 1206	1206
5	C4	1	3300pF	GRM188R72A332KA01D	MuRata	CAP, CERM, 3300 pF, 100 V, +/- 10%, X7R, 0603	0603
6	C5	1	0.022uF	GRM188R71C223KA01D	MuRata	CAP, CERM, 0.022 uF, 16 V, +/- 10%, X7R, 0603	0603
7	C7	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
8	C8, C14	2	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
9	C9	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603
10	C10	1	1200uF	UHE1H122MHD6	Nichicon	CAP, AL, 1200 uF, 50 V, +/- 20%, TH	D18xL25mm
11	C11	1	0.1uF	GRM21BR72A104KAC4L	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
12	C13	1	220uF	UHE1V221MPD6	Nichicon	CAP, AL, 220 uF, 35 V, +/- 20%, TH	D10xL12.5mm
13	C15	1	2.2uF	GRM219R71C225KE15	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0805	0805
14	C17	1	0.1uF	GRM219R71C104KA01D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0805	0805
15	D1	1	60V	B160-13-F	Diodes Inc.	Diode, Schottky, 60 V, 1 A, SMA	SMA
16	D2	1	28V	SMCJ28CA	Littelfuse	Diode, TVS, Bi, 28 V, 45.4 Vc, SMC	SMC
17	D4	1	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
18	H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
19	J1, J2	2		282841-2	TE Connectivity	Terminal Block, 2x1, 5.08mm, TH	10.16x15.2x9mm
20	L1	1	33uH	LPS6235-333MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 33 uH, 1.3 A, 0.18 ohm, SMD	LPS6235
21	L2	1	33uH	LPS8045B-333MRB	Coilcraft	Inductor, Shielded, Ferrite, 33 uH, 1.2 A, 0.121 ohm, SMD	8x4.5x8mm
22	R1, R4, R20	3	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
23	R2	1	511k	CRCW0603511KFKEA	Vishay-Dale	RES, 511 k, 1%, 0.1 W, 0603	0603
24	R3, R6	2	715k	CRCW0603715KFKEA	Vishay-Dale	RES, 715 k, 1%, 0.1 W, 0603	0603
25	R5	1	165k	CRCW0603165KFKEA	Vishay-Dale	RES, 165 k, 1%, 0.1 W, 0603	0603
26	R7	1	226k	CRCW0603226KFKEA	Vishay-Dale	RES, 226 k, 1%, 0.1 W, 0603	0603
27	R8, R12	2	43.2k	CRCW060343K2FKEA	Vishay-Dale	RES, 43.2 k, 1%, 0.1 W, 0603	0603
28	R9, R13, R19	3	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
29	R10, R16	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
30	R11	1	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2 k, 1%, 0.1 W, 0603	0603
31	R14, R18	2	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
32	R15	1	6.04k	CRCW06036K04FKEA	Vishay-Dale	RES, 6.04 k, 1%, 0.1 W, 0603	0603
33	R17	1	1.15k	CRCW06031K15FKEA	Vishay-Dale	RES, 1.15 k, 1%, 0.1 W, 0603	0603
34	S1	1		SKRKAEE010	Alps	Switch, Push Button, SMD	2.9x2x3.9mm SMD
35	TP1, TP2	2		5019	Keystone	Test Point, Miniature, SMT	Test Point, Miniature, SMT
36	U1	1		LM5160DNTR	Texas Instruments	Wide Input 65V, 1.5A Synchronous Step-Down DC-DC Converter, DNT0012B	DNT0012B
37	U2	1		TPS26600PWPR	Texas Instruments	4.5V-55V, 0.15A-2A, 150mOhm Industrial eFuse, PWP0016D	PWP0016D
38	U3	1		LM5002SD/NOPB	Texas Instruments	High Voltage Switch Mode Regulator, 8-pin LLP, Pb-Free	SDC08A
39	C16	0	0.1uF	GRM21BR72A104KAC4L	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
40	D3	0	51V	SMAJ51CA	Littelfuse	Diode, TVS, Bi, 51 V, 400 W, SMA	SMA
41	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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