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TIDA-01381 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-01381	Any	Printed Circuit Board	
2	C1, C2, C25	3	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
3	C3, C9, C10	3	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
4	C4	1	3300pF	GRM188R71E332KA01D	MuRata	CAP, CERM, 3300 pF, 25 V, +/- 10%, X7R, 0603	0603
5	C5, C7, C11, C12, C17, C18, C19, C20	8	4.7uF	C3225X7S2A475K200AE	TDK	CAP, CERM, 4.7 µF, 100 V, +/- 10%, X7S, 1210	1210
6	C6	1	0.033uF	GRM216R71E333KA01D	MuRata	CAP, CERM, 0.033 µF, 25 V, +/- 10%, X7R, 0805	0805
7	C8	1	10pF	CGA3E2C0G1H100D080AA	TDK	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
8	C13	1	2.2uF	C0805C225K4RACTU	Kemet	CAP, CERM, 2.2 µF, 16 V, +/- 10%, X7R, 0805	0805
9	C16	1	1000pF	06031C102JAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 5%, X7R, 0603	0603
10	C21, C22, C23	3	100pF	CGA3E2NP01H101J080AA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 0, 0603	0603
11	C24, C26	2	0.1uF	C3216X7R2A104K160AA	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 1206	1206
12	C27	1	2.2uF	GRT188R61H225KE13D	MuRata	CAP, CERM, 2.2 µF, 50 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0603	0603
13	D2	1	100V	PDS3100Q-13	Diodes Inc.	Diode, Schottky, 100 V, 3 A, AEC-Q101, PowerDI5	PowerDI5
14	D5	1	100V	PMEG10030ELPX	NXP Semiconductor	Diode, Schottky, 100 V, 3 A, AEC-Q101, SOD-128	SOD-128
15	D6	1	24V	SMCJ24A	Fairchild Semiconductor	Diode, TVS, Uni, 24 V, SMC	SMC
16	H1, H3, H5, H7	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
17	H2, H4, H6, H8	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
18	J1, J3	2		1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
19	J2	1		1725698	Phoenix Contact	Terminal Block, 6x1, 2.54mm, TH	Terminal Block, 6x1, 2.54mm, TH
20	J4	1		D3082-05	Harwin	1mm Uninsulated Shorting Plug, 10.16mm spacing, TH	Shorting Plug, 10.16mm spacing, TH
21	J5	1		1725672	Phoenix Contact	Terminal Block, 4x1, 2.54 mm, Green, TH	Terminal Block, 4x1, 2.54 mm, TH
22	L1, L2	2	220 ohm	FBMH3216HM221NTV	Taiyo Yuden	Ferrite Bead, 220 ohm @ 100 MHz, 4 A, 1206	1206
23	L3	1	3.3uH	CLF7045T-3R3N	TDK	Inductor, Shielded, Ferrite, 3.3 µH, 5 A, 0.0213 ohm, SMD	Inductor, 6.2x4.5x5.9mm
24	L4	1	22uH	IHLP4040DZER220M8A	Vishay-Dale	Inductor, Shielded Drum Core, Powdered Iron, 22 µH, 4.1 A, 0.0705 ohm, AEC-Q200 Grade 0, SMD	IHLP-4040DZ
25	L5, L6	2	600 ohm	BLM31PG601SH1L	MuRata	Ferrite Bead, 600 ohm @ 100 MHz, 1.5 A, 1206	1206
26	NEG(-), POS (+)	2	Double	1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
27	Q1	1	100V	STL8N10LF3	STMicroelectronics	MOSFET, N-CH, 100 V, 20 A, AEC-Q101, 8-PowerVDFN	8-PowerVDFN
28	R1	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
29	R2	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
30	R3	1	1.43k	CRCW06031K43FKEA	Vishay-Dale	RES, 1.43 k, 1%, 0.1 W, 0603	0603
31	R4	1	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 1206	1206
32	R5	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
33	R6	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
34	R7	1	0.06	CSRN2010FK60L0	Stackpole Electronics Inc	RES, 0.06, 1%, 1 W, 2010	2010
35	R8	1	487k	CRCW0603487KFKEA	Vishay-Dale	RES, 487 k, 1%, 0.1 W, 0603	0603
36	R9	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
37	R10, R12	2	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
38	R11	1	0.16	MCR25JZHFLR160	Rohm	RES, 0.16, 1%, 0.5 W, 1210	1210
39	R13	1	220	CRCW0603220RJNEA	Vishay-Dale	RES, 220, 5%, 0.1 W, 0603	0603
40	RS1, RS2, RS3, RS4, RS5, RS6	6	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
41	U1	1		TPS92691QPWPRQ1	Texas Instruments	Multi-Topology LED Driver with Rail-to-Rail Current Sense Amplifier, PWP0016J	PWP0016J
42	U2	1		TMP423AQDCNRQ1	Texas Instruments	+/- 1 C Remote and Local TEMPERATURE SENSOR, DCN0008A (SOT-8)	DCN0008A
43	C14	0	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
44	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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