

Variant: 001
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TIDA-020014 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-020014	Any	Printed Circuit Board	
2	C1	1	3300pF	GRM216R71E332KA01D	MuRata	CAP, CERM, 3300 pF, 25 V,+/- 10%, X7R, 0805	0805
3	C25, C37	2	220pF	GRM188R72E221KW07D	MuRata	CAP, CERM, 220 pF, 250 V,+/- 10%, X7R, 0603	0603
4	C26, C27, C34, C35	4	22uF	GRM21BR61E226ME44L	MuRata	CAP, CERM, 22 uF, 25 V,+/- 20%, X5R, 0805	0805
5	C28, C36	2	0.22uF	GRM21BR71H224KA01L	MuRata	CAP, CERM, 0.22 uF, 50 V,+/- 10%, X7R, 0805	0805
6	C29, C30	2	10uF	22201C106MAT2A	AVX	CAP, CERM, 10 uF, 100 V, +/- 20%, X7R, 2220	2220
7	C31	1	4.7uF	GCM32DC72A475KE02L	MuRata	CAP, CERM, 4.7 uF, 100 V,+/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
8	C32	1	0.1uF	GRM32NR72A104KA01L	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 1210	1210
9	C33	1	6800pF	GRM188R72A682KA01D	MuRata	CAP, CERM, 6800 pF, 100 V,+/- 10%, X7R, 0603	0603
10	C39	1	0.1uF	C0805C104K1RACTU	Kemet	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
11	C40	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V,+/- 10%, X7R, 0805	0805
12	C41, C44	2	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V,+/- 10%, X5R, 0603	0603
13	C42	1	220pF	GRM1885C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
14	C43	1	470pF	GRM188R71H471KA01D	MuRata	CAP, CERM, 470pF, 50V, +/-10%, X7R, 0603	0603
15	C45	1	0.22uF	GRM219R71E224KA01D	MuRata	CAP, CERM, 0.22 uF, 25 V,+/- 10%, X7R, 0805	0805
16	D7, D9	2	200V	DFLS1200-7	Diodes Inc.	Diode, Schottky, 200 V, 1 A, PowerDI123	PowerDI123
17	D8	1	18V	BZT52C18T-7	Diodes Inc.	Diode, Zener, 18 V, 300 mW, SOD-523	SOD-523
18	D10	1	10V	MMS24697-HE3-08	Vishay-Semiconductor	Diode, Zener, 10 V, 500 mW, AEC-Q101, SOD-123	SOD-123
19	D11, D12	2	200V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOD-123	SOD-123
20	D14	1	Green	150060GS75000	Würth Elektronik	LED, Green, SMD	LED_0603
21	J4, J4_1, J6, J6_1	4		TSW-102-08-G-S	Samtec	Header, 2.54mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
22	J5	1		OSTVN02A150	On-Shore Technology	Terminal Block, 2.54mm, 2x1, Brass, TH	Terminal Block, 2.54mm, 2-pole, Brass, TH
23	Q1	1	100V	CSD19538Q3A	Texas Instruments	MOSFET, N-CH, 100 V, 5 A, DNH0008A (VSONP-8)	DNH0008A
24	R7, R10	2	100	CRCW0805100RFKEA	Vishay-Dale	RES, 100, 1%, 0.125 W, 0805	0805
25	R8	1	5.62k	CRCW08055K62FKEA	Vishay-Dale	RES, 5.62 k, 1%, 0.125 W, 0805	0805
26	R9	1	20.0	CRCW080520R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.125 W, 0805	0805
27	R11	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7 ohm, 5%, 0.1W, 0603	0603
28	R12	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
29	R13	1	402k	CRCW0603402KFKEA	Vishay-Dale	RES, 402k ohm, 1%, 0.1W, 0603	0603
30	R14	1	0.03	CSR1206FK30L0	Stackpole Electronics Inc	RES, 0.03, 1%, 0.5 W, 1206	1206
31	R15	1	2.49k	CRCW08052K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.125 W, 0805	0805
32	R16	1	4.75k	CRCW08054K75FKEA	Vishay-Dale	RES, 4.75 k, 1%, 0.125 W, 0805	0805
33	R17	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
34	R18	1	143	CRCW0805143RFKEA	Vishay-Dale	RES, 143, 1%, 0.125 W, 0805	0805
35	R20	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
36	T2	1	35uH	YA9051-AL	Coilcraft	Flyback Transformer, 35 uH, SMT	24.13x18.3mm
37	TP1, TP3	2		5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
38	TP2	1		5122	Keystone	Test Point, Compact, Blue, TH	Blue Compact Testpoint
39	TP4	1		5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
40	U3	1		TPS40210QDGGQRQ1	Texas Instruments	Automotive Catalog Wide Input Range Current Mode Boost Controller, 4.5 to 52 V, -40 to 125 degC, 10-pin MSOP-PowerPAD (DGQ), Green (RoHS & no Sb/Br)	DGQ0010D
41	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A