

Variant: 001  
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TIDA-00583 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	5V, 12V, L, N, PGND, SGND	6	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
2	C1, C2	2	22uF	EEUED2G220	Panasonic	CAP, AL, 22 µF, 400 V, +/- 20%, 1.302176 ohm, TH	12.5x25
3	C3	1	470pF	GRM31A7U2J471JW31D	MuRata	CAP, CERM, 470 pF, 630 V, +/- 5%, U2J, 1206	1206
4	C4	1	4.7uF	GRM21BR61E475KA12L	MuRata	CAP, CERM, 4.7 µF, 25 V, +/- 10%, X5R, 0805	0805
5	C5	1	47pF	VJ1206A470JXGAT5Z	Vishay-Vitramon	CAP, CERM, 47 pF, 1000 V, +/- 5%, COG/NP0, 1206	1206
6	C6	1	47uF	ECA-1VM470	Panasonic	CAP, AL, 47 µF, 35 V, +/- 20%, TH	CAPR, 5x11mm
7	C8	1	820uF	RL80J821MDN1KX	Nichicon	CAP, AL, 820 µF, 6.3 V, +/- 20%, 0.008 ohm, TH	D8xL8
8	C9	1	0.1uF	C0805C104K4RACTU	Kemet	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0805	0805
9	C10	1	470uF	RL80J471MDNASQKX	Nichicon	CAP, AL, 470 µF, 6.3 V, +/- 20%, 0.008 ohm, TH	D8xL8
10	D1	1	600V	MDB6S	Fairchild Semiconductor	Diode, Switching-Bridge, 600 V, 1 A, Diode Bridge,6.5x1.3x5.0mm, SMT	Diode Bridge,6.5x1.3x5.0mm, SMT
11	D2	1	600V	DFLR1600-7	Diodes Inc.	Diode, Standard Recovery Rectifier, 600 V, 1 A, PowerDI123	PowerDI123
12	D3, D4	2	250V	BAS21HT1G	Onsemi	Diode, Switching, 250 V, 0.2 A, SOD-123	SOD-123
13	D5	1	12V	MMSZ5242BS-7-F	Diodes Inc.	Diode, Zener, 12 V, 200 mW, SOD-323	SOD-323
14	D6	1	45V	PS1045L	PINGWEI	Diode, Schottky, 45 V, 10 A, PowerDI5	PowerDI5
15	D7	1	5.1V	MMSZ4689-V	Vishay-Semiconductor	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
16	FR	1	4.7	FKN1WSJR-52-4R7	Yageo America	RES, 4.7, 5%, 1 W, Fusible, TH	Axial resistor
17	JP1	1		923345-05-C	3M	Jumper Wire, 500mil spacing, Green, pkg of 200	500 mil Jumper Wire
18	JP2	1		923345-04-C	3M	Jumper Wire, 400 mil Spacing, Yellow, Pkg of 200	Jumper Wire, 400 mil Spacing, Yellow, Pkg of 200
19	L1	1	470uH	7447462471	Würth Elektronik eiSos	Inductor, Unshielded Drum Core, Ferrite, 470 µH, 0.35 A, 1.58 ohm, TH	D6 x 8.5mm
20	Q1	1	400 V	3DD13005ED	Sino-Microelectronics	Transistor, NPN, 400 V, 4 A, TO-126	TO-126S
21	R1	1	10k	RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603	0603
22	R2, R3, R4	3	1.5Meg	ERJ-6GEYJ155V	Panasonic	RES, 1.5 M, 5%, 0.125 W, 0805	0805
23	R5	1	330k	CRCW1206330KJNEA	Vishay-Dale	RES, 330 k, 5%, 0.25 W, 1206	1206
24	R6	1	220	CRCW1206220RJNEA	Vishay-Dale	RES, 220, 5%, 0.25 W, 1206	1206
25	R7, R16	2	2.2	ERJ-6GEYJ2R2V	Panasonic	RES, 2.2, 5%, 0.125 W, 0805	0805
26	R8	1	30k	CRCW080530K0JNEA	Vishay-Dale	RES, 30 k, 5%, 0.125 W, 0805	0805
27	R9	1	18.2k	CRCW060318K2FKEA	Vishay-Dale	RES, 18.2 k, 1%, 0.1 W, 0603	0603
28	R10	1	267k	CRCW0603267KFKEA	Vishay-Dale	RES, 267 k, 1%, 0.1 W, 0603	0603
29	R11	1	1.2	CRCW08051R20JNEA	Vishay-Dale	RES, 1.2, 5%, 0.125 W, 0805	0805
30	R12	1	2.4	RC0805JR-072R4L	Yageo America	RES, 2.4, 5%, 0.125 W, 0805	0805
31	R13	1	200	ERJ-6GEYJ201V	Panasonic	RES, 200, 5%, 0.125 W, 0805	0805
32	R14	1	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
33	R15	1	39k	CRCW080539K0JNEA	Vishay-Dale	RES, 39 k, 5%, 0.125 W, 0805	0805
34	R18	1	1.0k	CRCW08051K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.125 W, 0805	0805
35	T1	1				EE16-7-5, 10-Pin EXT, THT, Vertical	
36	U1	1		UCC28722DBVR	Texas Instruments	Constant-Voltage, Constant-Current Controller With Primary-Side Regulation, DBV0006A	DBV0006A
37	C7	0	0.1uF	C0805C104K4RACTU	Kemet	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0805	0805
38	R17	0	10k	CRCW080510K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.125 W, 0805	0805

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