

Variant: 001
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 TID #: TIDA-01503



TIDA-01503 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-01503	Any	Printed Circuit Board	
2	C1	1	0.1uF	B32671P6104K000	TDK	CAP, Film, 0.1 uF, 630 V, +/- 10%, TH	13x5x11mm
3	C2	1	0.01uF	C0805W103KBRAC7800	Kemet	10000pF 630V Ceramic Capacitor X7R 0805	0805
4	C3	1	2200pF	C927U222MZWDBA7317	KEMET	2200pF ±20% 440VAC Ceramic Capacitor Y5U (E) Radial, Disc	D9xT5mm
5	C4, C9, C10	3	100uF	25YXJ100M5X11	Rubycon	CAP, AL, 100 uF, 25 V, +/- 20%, TH	CAPPR2-5x11
6	C5, C6	2	560uF	PLG1A561MCO1TD	Nichicon	CAP, AL, 560 uF, 10 V, +/- 20%, 0.011 ohm, TH	D10x12.5mm
7	C7, C11, C13	3	1uF	C1608X5R1H105K080AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X5R, 0603	0603
8	C8	1	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
9	C14	1	33pF	GRM1885C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
10	D1	1	160V	SMBJ160A	Fairchild Semiconductor	TVS DIODE 160VWM 259VC SMB	SMB
11	D2	1	600V	BYG20J-E3/TR	Vishay-Semiconductor	Diode, Ultrafast, 600 V, 1.5 A, SMA	SMA
12	D3	1	40V	PDS1040L-13	Diodes Inc.	Diode, Schottky, 40 V, 10 A, PowerDI5	PowerDI5
13	D4, D8	2	150V	RB068L150TE25	Rohm Semiconductor	DIODE SCHOTTKY 150V 2A PMDS	DO-214AC
14	D5	1	6.2V	MMSZ4691T1G	ON Semiconductor	Diode, Zener, 6.2 V, 500 mW, SOD-123	SOD-123
15	D6, D9	2	18V	MMSZ4705T1G	ON Semiconductor	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
16	D7	1	75V	CMHD4448 TR	Central Semiconductor	Diode, Switching, 75 V, 0.25 A, SOD-123	SOD-123
17	J1	1		TSW-114-08-L-S-RA	Samtec	Header, 100 mil, 14x1, Gold, R/A, TH	Header, 100 mil, 14x1, R/A, TH
18	L1	1	2.2uH	7447462022	Würth Elektronik	Inductor, Wirewound, Ferrite, 2.2 uH, 6.3 A, 20 mohm, TH	D8.7xH12mm
19	Q2	1	800V	STD8N80K5	STMicroelectronics	MOSFET N CH 800V 6A DPAK	DPAK
20	R2, R4, R5	3	1.00Meg	RMCF0805JT1M00	Stackpole Electronics Inc.	RES, 1.00 M, 5%, 0.125 W, 0805	0805
21	R7	1	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
22	R8	1	1.78k	RC0603FR-071K78L	Yageo America	RES, 1.78 k, 1%, 0.1 W, 0603	0603
23	R9	1	49.9k	RC0603FR-0749K9L	Yageo America	RES, 49.9 k, 1%, 0.1 W, 0603	0603
24	R11	1	0.3	CSR1206FKR300	Stackpole Electronics Inc	RES, 0.3, 1%, 0.5 W, 1206	1206
25	R12	1	19.1k	RC0603FR-0719K1L	Yageo America	RES, 19.1 k, 1%, 0.1 W, 0603	0603
26	R13	1	0.33	CSR1206FKR330	Stackpole Electronics Inc	RES, 0.33, 1%, 0.5 W, 1206	1206
27	R15	1	100k ohm	NTCG164KF104FT1S	TDK	Thermistor NTC, 100k ohm, 1%, 0603	0603
28	T1	1	500uH	750343661	Würth Elektronik	Transformer, 500 uH, TH	14x13mm
29	T2	1	500uH	P20D05000	HAINING LIANFENG DONGJIN ELECTRONICS CO.,LTD	Transformer, 500 uH, TH	22.5*22.5 mm
30	U1	1		UCC28704DBVR-1	Texas Instruments	CV/CC Flyback Controller with Primary-Side Regulation (PSR) and CC Under-Voltage Protection, DBV0006A	DBV0006A

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