

TIDA-00776 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB	1		TIDA-xxxxx	Any	Printed Circuit Board	
BR1	1	GBJ3508	GBU8K	Fairchild	Diode, Bridge Rectifier, GPP 8A 800V	1.190 x 0.190 inch
C1	1	0.33uF	ECQ-U2A334ML	Panasonic	CAP, Film, 0.33 μ F, 275 V, +/- 20%, TH	RCAP, 17.5x17.5x9.5mm
C2	1	2700pF	GRM188R71H272KA01D	MuRata	CAP, CERM, 2700 pF, 50 V, +/- 10%, X7R, 0603	0603
C3	1	680pF	C0603C681K5RACTU	Kemet	CAP, CERM, 680 pF, 50 V, +/- 10%, X7R, 0603	0603
C4	1	820pF	C0603C821K5RACTU	Kemet	CAP, CERM, 820 pF, 50 V, +/- 10%, X7R, 0603	0603
C5	1	150 uF	LGL2W151MELZ30	NICHICON	CAP, ALUMINIUM, RADIAL, 150 uF, 450 V, 20%, TH	
C6, C10	2	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 5%, X7R, 0603	0603
C7	1	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 0603	0603
C8	1	0.47uF	C0603C474K4RACTU	Kemet	CAP, CERM, 0.47 μ F, 16 V, +/- 10%, X7R, 0603	0603
C9	1	4.7uF	GRM21BR71A475KA73L	MuRata	CAP, CERM, 4.7 μ F, 10 V, +/- 10%, X7R, 0805	0805
C11	1	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 μ F, 25 V, +/- 10%, X7R, 1206	1206
C12	1	0.015uF	GRM188R71H153KA01D	MuRata	CAP, CERM, 0.015 μ F, 50 V, +/- 10%, X7R, 0603	0603
C13	1	330uF	UPW1E331MPD	Nichicon	CAP, AL, 330 μ F, 25 V, +/- 20%, TH	CAPPR2-5x11
D1	1	600V	C3D04060A	CREE	Diode, 600 V, 4 A, TH	TO-220-F2
D2	1	600V	1N5406	Vishay-Semiconductor	Diode, Switching-Bridge, 600 V, 3 A, TH	DO-201AD
D3	1	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D4	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D5	1	1000V	1N4007	Fairchild Semiconductor	Diode, P-N, 1000 V, 1 A, TH	DO-41
D6	1	1000V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000 V, 1 A, SMA	SMA
D7	1	13V	MMSZ4700T1G	ON Semiconductor	Diode, Zener, 13 V, 500 mW, SOD-123	SOD-123
J1	1		1757255	On-Shore Technology	TERMINAL BLOCK 5.08MM VERT 3POS, TH	TERM_BLK, 3pos, 5.08mm
J2	1		TIDA-00948	Texas Instruments	TIDA-00948	
J3	1		PEC04SAAN	Sullins Connector Solutions	Header, 100mil, 4x1, Tin, TH	Header, 4x1, 100mil, TH
L1	1	500uH	750343351	WE	INDUCTOR, 500 uH, 6A, 10%, TH	
L2	1	1mH	7447471102	Würth Elektronik	Inductor, Wirewound, Ferrite, 1 mH, 0.4 A, 1.2 ohm, TH	11x11.5mm
L3	1	33uH	ABG03A15M4R7	Coilcraft	Inductor, Shielded, Ferrite, 22 μ H, 3.3 A, SMD	8x4.5x8mm
LED1	1		Red		Typical RED, AMBER GaAs LED, TH	
Q1	1	600 V	IPP60R380E6	Infineon Technologies	MOSFET, N-CH, 650 V, 10.6 A, TO-220-3	
R1, R7	2	332k	CRCW1206332KFKEA	Vishay-Dale	RES, 332 k, 1%, 0.25 W, 1206	1206
R2	1	0.02	CRA2512-FZ-R020ELF	Bourns	RES, 0.02, 1%, 3 W, 2512	2512
R3	1	1.0	CRCW08051R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.125 W, 0805	0805
R4	1	3.3k	CRCW060310K0FKEA	Vishay-Dale	RES, 3.3 k, 1%, 0.1 W, 0603	0603
R5	1	2.0	CRCW08052R00JNEA	Vishay-Dale	RES, 2.0, 5%, 0.125 W, 0805	0805
R6	1	220	CRCW0603220RJNEA	Vishay-Dale	RES, 220, 5%, 0.1 W, 0603	0603
R8	1	340k	CRCW1206340KFKEA	Vishay-Dale	RES, 340 k, 1%, 0.25 W, 1206	1206
R9	1	22.6k	CRCW060322K6FKEA	Vishay-Dale	RES, 22.6 k, 1%, 0.1 W, 0603	0603
R10	1	15.4k	CRCW060315K4FKEA	Vishay-Dale	RES, 15.4 k, 1%, 0.1 W, 0603	0603
R11	1	13.0k	CRCW060313K0FKEA	Vishay-Dale	RES, 13.0 k, 1%, 0.1 W, 0603	0603
R12	1	105k	CRCW0603105KFKEA	Vishay-Dale	RES, 105 k, 1%, 0.1 W, 0603	0603
R13	1	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603

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R14	1	1.1k	CRCW12061K10JNEA	Vishay-Dale	RES, 1.1 k, 5%, 0.25 W, 1206	1206
R15	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
S1	1			Copal Electronics	Switch, Slide, SPST, Top Slide	Switch, Single Top Slide, 2.5x8x2.5mm
U1	1		UCC28180D	Texas Instruments	8-PIN CONTINUOUS CONDUCTION MODE (CCM) PFC CONTROLLER, D0008A	D0008A
U2	1		UCC28881DR	Texas Instruments	700-V Lowest Quiescent Current Off-Line Switcher, D0007A	D0007A

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