

TIDA-00706 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-00706	Any	Printed Circuit Board	
C1	1	0.1uF	B32671P6104K	TDK	CAP, Film, 0.1 μ F, 630 V, +/- 10%, TH	13x5x11mm
C2	1	4700pF	C0603Y472K2RAC7867	Kemet	CAP CER 4700PF 200V X7R 0603	0603
C3	1	470uF	EKZN250ELL471MH15D	United Chemi-Con	CAP, AL, 470 μ F, 25 V, +/- 20%, 0.075 ohm, TH	D8xL15mm
C4, C6, C8, C12	4	100uF	25YXJ100M5X11	Rubycon	CAP, AL, 100 μ F, 25 V, +/- 20%, TH	CAPPR2-5x11
C5, C10	2	47uF	UPW1E470MDD	Nichicon	CAP, AL, 47 μ F, 25 V, +/- 20%, TH	CAPPR2-5x11
C7, C9, C11, C13	4	1uF	C0603C105K3RACTU	Kemet	CAP CER 1UF 25V X7R 0603	0603
C14	1	10uF	GRM188R6YA106MA73D	Nichicon	CAP, CERM, 10 μ F, 35 V, +/- 20%, X5R, 0603	0603
C16, C23	2	1000pF	GRM1885C1E102JA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 5%, C0G/NP0, 0603	0603
C17	1	2.2nF	CS80ZU2GA222MYNKA	TDK Corporation	CAP CER 2200PF 300VAC 20% RADIAL	TH, 2- Leads, Body 8x7mm, Pin Spacing 7.5mm
C18	1	4.7uF	C1608C0G1E472J080AA	TDK Corporation	CAP, CERM, 4.7 μ F, 25 V, +/- 10%, 0603	0603
C19	1	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 0603	0603
C20, C21, C22	3	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 5%, X7R, 0603	0603
D1	1	160V	SMBJ160A	Fairchild Semiconductor	TVS DIODE 160VWM 259VC SMB	SMB
D2	1	1000V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000 V, 1 A, SMA	SMA
D3	1	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D4, D6, D8, D10	4	150V	PMEG10020AELRX	NXP Semiconductors	DIODE SCHOTTKY 100V 2A SOD2123	SOD-123FL
D5	1	13V	MMSZ4700T1G	ON Semiconductor	Diode, Zener, 13 V, 500 mW, SOD-123	SOD-123
D7	1	9.1V	BZT52C9V1-7-F	Diodes Incorporated	DIODE ZENER 9.1V 500MW SOD123	SOD-123
D9	1	7.5V	MMSZ4693T1G	ON Semiconductor	Diode, Zener, 7.5 V, 500 mW, SOD-123	SOD-123
D11	1	13V	MMSZ5244BT1G	ON Semiconductor	Diode, Zener, 14 V, 500 mW, SOD-123	SOD-123
D12, D13	2	200V	PMEG10020AELRX	ON Semiconductor	DIODE SCHOTTKY 100V 2A SOD2123	SOD-123FL
D14	1	100V	FSV12100V	Fairchild Semiconductor	DIODE SCHOTTKY 100V 12A TO277-3	TO-277A
D15	1	40V	B0540WS-7	Diodes Inc.	Diode, Schottky, 40 V, 0.5 A, SOD-323	SOD-323
HS1	1		7173DG	Aavid	Heat Sink, TO-220 Vertical	9.52x19.05x19.05 mm
J1	1		PEC03SBAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, R/A, TH	Header, 3x1, RA
J2	1		PBC10SGBN	SULLINS	CONNECTOR, HEADER, 2.54MM PITCH, 10 POS, RIGHT ANGLE, TH, ROHS	
J3	1		TSW-104-08-G-S-RA	Samtec	Header, 100mil, 4x1, Gold, R/A, TH	4x1 R/A Header
Q1	1	650V	AOT7S65L	Alpha & Omega Semiconductor	MOSFET, N-CH, 650 V, 7 A, TO-220	TO-220
R1, R2, R3	3	1.0Meg	CRCW12061M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.25 W, 1206	1206
R4	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R5	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R6	1	220	RC0603FR-07220RL	Yageo America	RES, 220, 1%, 0.1 W, 0603	0603
R7, R12	2	1.24	CRCW12061R24FKEA	Vishay-Dale	RES, 1.24, 1%, 0.25 W, 1206	1206
R9	1	56.2k	RC0603FR-0756K2L	Yageo	RES SMD 56.2K OHM 1% 1/10W 0603	0603
R10	1	25.5k	RC0603FR-0725K5L	Yageo	RES SMD 25.5K OHM 1% 1/10W 0603	0603
R11	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R14	1	43.2k	CRCW060343K2FKEA	Vishay-Dale	RES, 43.2 k, 1%, 0.1 W, 0603	0603
T1	1		750343154R01	Würth Elektronik	Transformer, 14 Lead, TH	

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U1	1		UCC28700DBVR	Texas Instruments	Constant-Voltage, Constant-Current Controller With Primary-Side Regulation, DBV0006A	DBV0006A
U2	1		TPS259241DRCR	Texas Instruments	12-V eFuse with Over Voltage Protection and Blocking FET Control, DRC0010J	DRC0010J
C15	0	2.2uF	UVY2W2R2MPD1TD	Nichicon	CAP ALUM 2.2UF 20% 450V RADIAL	D8xL15mm

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