

TIDA-01160 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC B1	1		TIDA-01160	Any	Printed Circuit Board	
C1	1	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 µF, 50 V, +/- 5%, X7R, 0603	0603
C2	1	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C3, C6	2	10uF	C3225X7R1E106M250AC	TDK	CAP, CERM, 10 µF, 25 V, +/- 20%, X7R, 1210	1210
C4, C9, C12, C13	4	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C5	1	2200pF	C0603C222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C7	1	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 µF, 50 V, +/- 20%, X7R, 1210	1210
C8	1	0.01uF	GRM21BR72E103KW03L	MuRata	CAP, CERM, 0.01 µF, 250 V, +/- 10%, X7R, 0805	0805
C10, C11	2	1uF	C1608X5R1H105K080AB	TDK	CAP, CERM, 1 µF, 50 V, +/- 10%, X5R, 0603	0603
C14, C15	2	100pF	06035A101JAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
D1	1	150V	CDBA1150-HF	Comchip Technology	Diode Schottky 150V 1A Surface Mount DO-214AC (SMA)	SMA
D2	1	15V	BZT52C15-7-F	Diodes Inc.	Diode, Zener, 15 V, 370 mW, AEC-Q101, SOD-123	SOD-123
D3	1	100V	CMHD4448 TR	Central Semiconductor	Diode, Switching, 100 V, 0.25 A, SOD-123	SOD-123
J1, J2	2		TSW-104-08-G-S-RA	Samtec	Header, 100mil, 4x1, Gold, R/A, TH	4x1 R/A Header
Q1	1	60V	2N7002	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 115 A, SOT-23	SOT-23
R1	1	1.69k	RC0603FR-071K69L	Yageo America	RES, 1.69 k, 1%, 0.1 W, 0603	0603
R2	1	17.4k	CRCW060317K4FKEA	Vishay-Dale	RES, 17.4 k, 1%, 0.1 W, 0603	0603
R3	1	1.00k	RC0603FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R4	1	73.2k	CRCW060373K2FKEA	Vishay-Dale	RES, 73.2 k, 1%, 0.1 W, 0603	0603
R5	1	118k	CRCW0603118KFKEA	Vishay-Dale	RES, 118 k, 1%, 0.1 W, 0603	0603
R6	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R7	1	10k	RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603	0603
R8	1	68.1k	CRCW120668K1FKEA	Vishay-Dale	RES, 68.1 k, 1%, 0.25 W, 1206	1206
R9, R10	2	1.1	CRCW20101R10JNEF	Vishay-Dale	RES, 1.1, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R12	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R14, R15	2	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100, 5%, 0.1 W, 0603	0603
R16	1	680	RC0603FR-07680RL	Yageo America	RES, 680, 1%, 0.1 W, 0603	0603
T1	1	10µH	750343468Rev02	Würth Elektronik	Transformer, 10µH, SMT	7.14x6.73mm
U1	1		LM25017MR/NOPB	Texas Instruments	48-V, 650-mA Constant On-Time Synchronous Buck Regulator	DDA0008B
U2	1		UCC5320SCD	Texas Instruments	Isolated Gate Drivers with High CMTI and Scalable Drive Strength, D0008B (SOIC-8)	D0008B
FID1, FID2, FID3, FID4	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R11, R13	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603

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