

Variant: 001
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TID #: 010059



TIDA-010059_Power_Board REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C2, C12, C18, C42, C47	6	0.1uF	CGA2B3X7R1E104K050BB	TDK	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
2	C3, C13, C14, C17, C19, C28, C30, C32, C39, C43, C44, C48	12	4.7uF	C2012X7R1V475K125AC	TDK	CAP, CERM, 4.7 uF, 35 V, +/- 10%, X7R, 0805	0805
3	C4, C5, C22, C23, C33, C34	6	0.01uF	C1206X103KDRAC7800	Kemet	CAP, CERM, 0.01 µF, 1000 V,+/- 10%, X7R, 1206	1206
4	C6, C11, C16, C27, C36, C46	6	180pF	06035A181JAT2A	AVX	CAP, CERM, 180 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
5	C8, C9, C24, C25, C37, C38	6	0.1uF	C1812V104KDRAC7800	Kemet	CAP, CERM, 0.1 uF, 1000 V, +/- 10%, X7R, 1812	1812
6	C10, C15, C26, C35, C40, C45	6	0.22uF	GCM188R71E224KA55D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
7	H1, H2, H3, H4, H5, H6, H7, H8, H9	9		29331	Keystone	MACH SCREW FLAT SLOTTED #4-40	
8	J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11	11		20021121-00006C4LF	FCI	Header, 1.27 mm, 3x2, Au, SMT	Header, 1.27mm, 3x2, SMT
9	L1, L2, L3, L4, L5, L6	6	22uH	BRC2518T220K	Taiyo Yuden	Inductor, Wirewound, 22 uH, 0.49 A, 0.56 ohm, SMD	1007(2518)
10	Q1, Q2, Q3, Q4, Q5, Q6	6		LMG3411R050RWHR	Texas Instruments	LMG3411R050: 600-V 50mΩ GaN With Integrated Driver and Cycle-by-cycle Overcurrent Protection, RWH0032A (VQFN-32)	RWH0032A
11	R1, R2, R3	3	470k	CRCW1206470KJNEA	Vishay-Dale	RES, 470 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
12	R4, R7, R9, R13, R18, R21	6	39k	CRCW040239K0JNED	Vishay-Dale	RES, 39 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
13	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A