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TID #: TIDA-01416

TIDA-01416 REV A Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-01416	Any	Printed Circuit Board	
2	C1	1	150uF	T520B157M006ATE070	Kemet	CAP, TA, 150 µF, 6.3 V, +/- 20%, 0.07 ohm, SMD	3528-21
3	C2, C8, C14, C20, C26	5	10uF	GRM188R60J106ME84	MuRata	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603	0603
4	C3, C9, C15, C21, C27	5	22pF	GRM1555C1H220FA01D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
5	C4, C10, C16, C22, C28	5	470pF	GCM155R71H471KA37D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
6	C5, C11, C17, C23, C29	5	2.2uF	GCM188C71A225K	MuRata	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X7S, 0603	0603
7	C6, C7, C18, C19	4	22uF	GRM21BR61A226ME44L	MuRata	CAP, CERM, 22 µF, 10 V, +/- 20%, X5R, 0805	0805
8	C12, C13, C24, C25, C30, C31	6	22uF	GRM21BR60J226ME39L	MuRata	CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0805	0805
9	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
10	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Phillips panhead	Screw
11	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
12	J1, J2, J5, J7, J9, J11	6		TSW-106-07-T-S	Samtec	Header, 100mil, 6x1, Tin, TH	6x1 Header
13	J3, J4, J6, J8, J10, J12, J13, J14	8		TSW-102-07-T-S	Samtec	Header, 2.54 mm, 2x1, Tin, TH	Header, 2.54 mm, 2x1, TH
14	JP1, JP2, JP3, JP4, JP5	5		TSW-103-07-T-S	Samtec	Header, 2.54 mm, 3x1, Tin, TH	Header, 2.54 mm, 3x1, TH
15	L1	1	470nH	XFL4015-471MEC	Coilcraft	Inductor, Shielded, Composite, 470 nH, 3.5 A, 0.0076 ohm, SMD	SMD, 4x4x1.5mm
16	L2, L3, L4, L5	4	1uH	XFL3012-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 µH, 2.5 A, 0.04 ohm, SMD	3x1.2x3mm
17	R1	1	1.00Meg	RC0603FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.1 W, 0603	0603
18	R2	1	63.4k	RT0603BRD0763K4L	Yageo America	RES, 63.4 k, 0.1%, 0.1 W, 0603	0603
19	R3	1	169k	RT0603BRD07169KL	Yageo America	RES, 169 k, 0.1%, 0.1 W, 0603	0603
20	R4, R9, R12, R13	4	178k	RC0603FR-07178KL	Yageo America	RES, 178 k, 1%, 0.1 W, 0603	0603
21	R5	1	118k	RT0603BRD07118KL	Yageo America	RES, 118 k, 0.1%, 0.1 W, 0603	0603
22	R6	1	39.2k	RC0603FR-0739K2L	Yageo America	RES, 39.2 k, 1%, 0.1 W, 0603	0603
23	R7	1	113k	CRCW0603113KFKEA	Vishay-Dale	RES, 113 k, 1%, 0.1 W, 0603	0603
24	R8	1	165k	RT0603BRD07165KL	Yageo America	RES, 165 k, 0.1%, 0.1 W, 0603	0603
25	R10	1	243k	RT0603BRD07243KL	Yageo America	RES, 243 k, 0.1%, 0.1 W, 0603	0603
26	R11	1	38.3k	RT0603BRD0738K3L	Yageo America	RES, 38.3 k, 0.1%, 0.1 W, 0603	0603
27	R14	1	243k	RC0603FR-07243KL	Yageo America	RES, 243 k, 1%, 0.1 W, 0603	0603
28	R15	1	38.3k	RC0603FR-0738K3L	Yageo America	RES, 38.3 k, 1%, 0.1 W, 0603	0603
29	R16, R17, R18	3	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
30	U1	1		TLV62085RLTR	Texas Instruments	3-A High Efficiency Synchronous Step-Down Converter, RLT0007A (VSON-HR-7)	RLT0007A
31	U2, U4, U5	3		TLV62080DSGR	Texas Instruments	1.2A High Efficient Step Down Converter in 2x2mm SON Package, DSG0008A (WSON-8)	DSG0008A
32	U3	1		TLV62084ADSGR	Texas Instruments	2A High Efficient Step Down Converter in 2x2mm SON Package, DSG0008A (WSON-8)	DSG0008A
33	U6	1		LM3880MF-1AA	Texas Instruments	Power Sequencer, 6-pin SOT-23	MF06A