

Variant: 001
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 TID #: TIDA-050010



TIDA-050010 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-050010	Any	Printed Circuit Board	
2	C1	1	1uF	EMK107B7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
3	C3	1	150uF	B45197A3157K409	Kemet	CAP, TA, 150 uF, 16 V, +/- 10%, 0.15 ohm, SMD	7343-31
4	C4, C5, C6, C7, C10	5	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
5	C8	1	22uF	TMK212B7225KG-TR	Taiyo Yuden	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 0805	0805
6	C9	1	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
7	C11	1	0.01uF	SR0603X7R103K1NT95(F)#M123A	Presidio Components	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	0603
8	C12	1	10uF	GRM188R61A106MAALD	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
9	FID4	1		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
10	J1, J2, J3, J4, J5, J6, J7	7		HTSW-102-09-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	Header, 2x1, 2.54mm, TH
11	JP1, JP3, JP4	3		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
12	L1	1	2.2uH	74404024022	Würth Elektronik	Inductor, Wirewound, Ferrite, 2.2 uH, 1.8 A, 0.08 ohm, SMD	SMD, 2.5x2mm
13	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
14	Q1	1	60V	CSD18533KCS	Texas Instruments	MOSFET, N-CH, 60 V, 100 A, KCS0003B (TO-220-3)	KCS0003B
15	Q2	1	40 V	NSS40201LT1G	ON Semiconductor	Transistor, NPN, 40 V, 2 A, AEC-Q101, SOT-23	SOT-23
16	Q3	1	40 V	NSS40200LT1G	ON Semiconductor	Transistor, PNP, 40 V, 2 A, AEC-Q101, SOT-23	SOT-23
17	R5, R6, R7	3	0	MCR03EZPJ000	Rohm	RES, 0, 5%, 0.1 W, 0603	0603
18	R8	1	10.0	RC0603FR-0710RL	Yageo	RES, 10.0, 1%, 0.1 W, 0603	0603
19	R9	1	1.06k	RT0603BRD071K06L	Yageo America	RES, 1.06 k, 0.1%, 0.1 W, 0603	0603
20	R10	1	23.2k	RG1608P-2322-B-T5	Susumu Co Ltd	RES, 23.2 k, 0.1%, 0.1 W, 0603	0603
21	Rload	1	1k ohm	91A1A-B28-A10L	Bourns	TRIMMER, 1k ohm, 2 W, TH	12.7x15.88mm
22	SW	1		HTSW-101-09-G-S	Samtec	Header, 100mil, 1x1, Gold, TH	Header, 1x1, 2.54mm, TH
23	U1	1		Used in BOM report	Used in BOM report		eg: 0603, used in PnP report
24	U2	1		TPS610995DRVR	Texas Instruments	Synchronous Boost Converter with 800 nA Ultra-Low Quiescent Current, DRV0006A (WSON-6)	DRV0006A
25	U3	1		LMC555IM/NOPB	Texas Instruments	World's smallest 555 timer with low power, high accuracy and a Fmax of 3MHz, D0008A (SOIC-8)	D0008A
26	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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