

TIDA-00905 REV E1 Bill of Materials

Item #	Fitted	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	Fitted	!PCB1	1		TIDA-00905	Any	Printed Circuit Board	
2	Fitted	C2, C3, C4, C5, C6, C7	6	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603_095	0603_095
3	Fitted	C8, C9, C10, C30	4	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603	0603
4	Fitted	C11, C13, C14, C20, C21, C22	6	0.1uF	C0603C104J4RACTU	Kemet	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	0603
5	Fitted	C23, C31, C32	3	820pF	GRM188R71H821KA01D	MuRata	CAP, CERM, 820 pF, 50 V, +/- 10%, X7R, 0603	0603
6	Fitted	C24	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
7	Fitted	C25, C26, C27	3	33uF	C2012X5R1A336M125AC	TDK	CAP, CERM, 33 µF, 10 V, +/- 20%, X5R, 0805	0805
8	Fitted	C28	1	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
9	Fitted	C29	1	10uF	GRM21BR61C106KE15L	MuRata	CAP, CERM, 10uF, 16V, +/-10%, X5R, 0805	0805
10	Fitted	D1, D2, D3, D8, D9, D10	6	30V	BAT54S-E3-08	Vishay-Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
11	Fitted	D4, D5, D6, D7, D11, D12, D13, D14, D15, D16, D17	11	Green	150060GS75000	Wurth Elektronik	LED, Green, SMD	LED_0603
12	Fitted	D18	1	15V	LSM115JE3/TR13	Microsemi	Diode, Schottky, 15 V, 1 A, DO-214BA	DO-214BA
13	Fitted	E1, E2, E3, E4, E5, E6	6		7461086	Wurth Elektronik	Power Element Bush, M4, 12, TH	Bush, M4, TH
14	Fitted	FID1, FID2, FID3, FID4, FID5, FID6	6		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
15	Fitted	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
16	Fitted	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5" #4-40 Nylon	Standoff
17	Fitted	J1, J2, J3, J15, J16	5		TMM-102-01-F-S	Samtec	Header, 2mm, 2x1, Gold, TH	Header, 2mm, 2x1, TH
18	Fitted	J4, J5, J6	3		142-0701-201	Emerson Network Power	Connector, TH, SMA	SMA
19	Fitted	J7, J8, J9	3		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
20	Fitted	J10	1		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
21	Fitted	J11	1		PJ-202AH	CUI Inc.	Connector, DC Jack 2.1X5.5 mm, TH	Conn, DC Jack, pin 2mm Dia.
22	Fitted	J12	1		800-10-002-10-001000	Mill-Max	Header, 100mil, 2x1, TH	Header, 2x1, 100mil, TH
23	Fitted	J13	1		TSW-110-07-G-D	Samtec	Header, 100mil, 10x2, Gold, TH	10x2 Header
24	Fitted	J14	1		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
25	Fitted	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"H x 0.200"W
26	Fitted	R1, R7, R37, R55	4	10k	RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603	0603
27	Fitted	R3, R4, R5	3	2.20	RC1206FR-072R2L	Yageo America	RES, 2.20, 1%, 0.25 W, 1206	1206
28	Fitted	R12, R14, R16	3	1.20	CRCW12061R20FKEA	Vishay-Dale	RES, 1.20, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
29	Fitted	R13, R15, R17	3	1.00	CSR1206FK1R00	Stackpole Electronics Inc	RES, 1.00, 1%, 0.5 W, 1206	1206
30	Fitted	R21, R22, R23, R24, R34, R35, R63, R64, R65, R82	10	200	CRCW0603200RJNEA	Vishay-Dale	RES, 200, 5%, 0.1 W, 0603	0603
31	Fitted	R25, R27, R29	3	8.87	CRCW06038R87FKEA	Vishay-Dale	RES, 8.87, 1%, 0.1 W, 0603	0603
32	Fitted	R28, R32, R45, R46, R47, R72, R83	7	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
33	Fitted	R39, R40, R41, R42, R43, R44, R51, R52, R53, R78, R80, R86, R87, R88, R89, R90, R91	17	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
34	Fitted	R57, R58, R59, R69, R70, R71	6	1.20k	RG1608P-122-B-T5	Susumu Co Ltd	RES, 1.20 k, 0.1%, 0.1 W, 0603	0603
35	Fitted	R66, R67, R68	3	6.98k	RT0603BRD076K98L	Yageo America	RES, 6.98 k, 0.1%, 0.1 W, 0603	0603
36	Fitted	R73, R85	2	10.7k	RG1608P-1072-B-T5	Susumu Co Ltd	RES, 10.7 k, 0.1%, 0.1 W, 0603	0603
37	Fitted	R74, R84	2	11.0k	RT0603BRD0711KL	Yageo America	RES, 11.0 k, 0.1%, 0.1 W, 0603	0603
38	Fitted	R76	1	750	CRCW0603750RJNEA	Vishay-Dale	RES, 750, 5%, 0.1 W, 0603	0603
39	Fitted	R77, R79, R81	3	10.0k	PHT0603Y1002BGT200	Vishay Sfernice	RES, 10.0 k, 0.1%, 0.0375 W, 0603	0603
40	Fitted	S1	1		B3U-1000P	Omron Electronic Components	SWITCH TACTILE SPST-NO 0.05A 12V	3x1.6x2.5mm
41	Fitted	T1, T2, T3	3		SC3113-50	Sumida	Transformer, TH	31.3x29.6mm
42	Fitted	U1, U2, U3	3		DRV421RTJR	Texas Instruments	5-V, Closed-Loop, Current Sense Conditioner with Integrated Fluxgate Sensor, RTJ0020G	RTJ0020G
43	Fitted	U4, U5, U6, U7	4		TLC372QDR	Texas Instruments	LinCMOS Dual Differential Comparators, D0008A	D0008A
44	Fitted	U8	1		TLV1117-33IDRJR	Texas Instruments	LDO with 4.7 to 15 V Input and 3.3 V Output, -40 to 125 degC, 8-Pin SON (DRJ), Green (RoHS & no Sb/Br)	DRJ0008A
45	Not Fitted	C1, C12, C15, C16, C17, C18, C19	0	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603	0603
46	Not Fitted	R2	0	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
47	Not Fitted	R6, R8, R18, R19, R20, R36, R38, R54, R56	0	10k	RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603	0603
48	Not Fitted	R9, R10, R11, R26, R30, R31, R33, R48, R49, R50, R60, R61, R62	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
49	Not Fitted	R75	0	5.11Meg	CRCW06035M11FKEA	Vishay-Dale	RES, 5.11 M, 1%, 0.1 W, 0603	0603

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