

Variant: 001
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TIDA-050090 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-050090	Any	Printed Circuit Board	
2	C1	1	0.068uF	GRM155R61A683KA01D	MuRata	CAP, CERM, 0.068 uF, 10 V, +/- 10%, X5R, 0402	0402
3	C2	1	2200pF	GRM155R61A222KA01D	MuRata	CAP, CERM, 2200 pF, 10 V, +/- 10%, X5R, 0402	0402
4	C3	1	10pF	C0402C100K4GACTU	Kemet	CAP, CERM, 10 pF, 16 V,+/- 10%, COG, 0402	0402
5	C4	1	1uF	GRJ188R71E105KE11D	MuRata	CAP, CERM, 1 uF, 25 V,+/- 10%, X7R, 0603	0603
6	C5	1	1uF	CGA4J3X7S2A105K125AB	TDK	CAP, CERM, 1 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0805	0805
7	C6	1	0.01uF	GCM155R71H103KA55D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, COG/NP0, 0402	0402
8	C7	1	10uF	C0805C106J8RACAUTO	Kemet	CAP, CERM, 10 uF, 10 V,+/- 5%, X7R, AEC-Q200 Grade 1, 0805	0805
9	C8, C9, C14, C15, C26, C27	6	10nF	C1005X7S2A103K050BB	TDK	Multilayer Ceramic Capacitors 10nF ±10% 100V X7S SMD 0402	0402
10	C10, C11, C12, C13, C16, C17, C18, C19, C28, C29, C30, C31	12	0.22uF	HMK107C7224MAHTE	Taiyo Yuden	CAP, CERM, 0.22 uF, 100 V,+/- 20%, X7S, AEC-Q200 Grade 1, 0603	0603
11	C20, C22	2	0.1uF	HMK107B7104KAHT	Taiyo Yuden	CAP, CERM, 0.1 uF, 100 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
12	C23	1	1uF	C3225X7R2A105K200AA	TDK	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, 1210	1210
13	C24, C25	2	22uF	CKG57NX7S2A226M500JH	TDK	CAP, CERM, 22 uF, VAC/100 VDC,+/- 20%, X7S, 6x5x5mm	6x5x5mm
14	D1, D2, D3, D4, D9, D10	6	60V	5.0SMDJ60A	Littelfuse	Diode, TVS, Uni, 60 V, 96.8 Vc, SMC	SMC
15	D5, D6, D7, D8	4	80V	B380-13-F	Diodes Inc.	Diode, Schottky, 80 V, 3 A, SMC	SMC
16	dVdT1, EN1, FLTBAR1, ILIM1, ILIM2, ILIM3, ILIM4, ILIM5, ILIM6, IMON1, IREF1, ITIMER1, OV1, PGOOD1, SWEN1, TEMP1	16		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
17	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
18	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
19	H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
20	J1	1		PEC04SAAN	Sullins Connector Solutions	Header, 100mil, 4x1, Tin, TH	Header, 4x1, 100mil, TH
21	J2	1		D3082-05	Harwin	1mm Uninsulated Shorting Plug, 10.16mm spacing, TH	Shorting Plug, 10.16mm spacing, TH
22	J3, J4, J5	3		B1-0-PCB-L	INTERNATIONAL HYDRAULIC	1/0 AWG High AMP PCB Wire Lugs 1/0-8 AWG	WIRE_LUG_150A_1-0AWG
23	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
24	R1, R2	2	1.00Meg	RK73H1HTTC1004F	KOA Speer	RES, 1.00 M, 1%, 0.05 W, AEC-Q200 Grade 0, 0201	0201
25	R3	1	40.2k	RC0201FR-0740K2L	Yageo America	RES, 40.2 k, 1%, 0.05 W, 0201	0201
26	R4, R5, R6, R7, R8, R9	6	1.20k	RC0201DR-071K2L	Yageo America	RES, 1.20 k, 0.5%, 0.05 W, 0201	0201
27	R10	1	549	RC0201FR-07549RL	Yageo America	RES, 549, 1%, 0.05 W, 0201	0201
28	R11	1	18.0k	RC0201FR-0718KL	Yageo America	RES, 18.0 k, 1%, 0.05 W, 0201	0201
29	R12	1	47.0k	RC0201FR-7D47KL	Yageo America	RES, 47.0 k, 1%, 0.05 W, 0201	0201
30	R13, R14	2	330	ERJ-2RKF3300X	Panasonic	RES, 330, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
31	R15	1	150k	RC0201FR-7D150KL	Yageo America	RES, 150 k, 1%, 0.05 W, 0201	0201
32	R16	1	33k	RC0201JR-0733KL	Yageo America	RES, 33 k, 5%, 0.05 W, 0201	0201
33	R17, R18	2	75.0k	CRCW040275K0FKED	Vishay-Dale	RES, 75.0 k, 1%, 0.063 W, 0402	0402
34	R19	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
35	R20	1	90.9k	CRCW040290K9FKED	Vishay-Dale	RES, 90.9 k, 1%, 0.063 W, 0402	0402
36	R21, R22, R25, R26, R27, R28	6	150	CRCW0603150RFKEA	Vishay-Dale	RES, 150, 1%, 0.1 W, 0603	0603
37	R23, R24	2		RC0201JR-070RL	Yageo	RES SMD 0 OHM JUMPER 1/20W 0201	0201 (0603 Metric)
38	RCH1	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
39	RZ1, RZ2	2	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
40	TP1, TP2	2		5126	Keystone	Test Point, Multipurpose, Green, TH	Green Multipurpose Testpoint
41	U1	1		24FC08T-E/SN	Microchip	EEPROM Memory IC 8Kb (1K x 8) 1°C 1 MHz 450 µs 8-SOIC	SOIC8
42	U2	1		TPS7A4001DGNT	Texas Instruments	Single Output LDO, 50 mA, Adjustable 1.175 to 90 V Output, 7 to 100 V Input, 8-pin MSOP (DGN), -40 to 125 degC, Green (RoHS & no Sb/Br)	DGN0008B
43	U3, U4, U5, U6, U7, U8	6		TPS16850VMAR	Texas Instruments	9 - 80 V , 4.3 mQ, 20 A Stackable eFuse with Accurate & Fast Current Monitor	LQFN-CLIP23
44	C21	0			Würth Elektronik	WCAP-AIE8 Aluminum Electrolytic Capacitor, Snap-In, D25 x H40mm, 1000µF, 200V	
45	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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