

TIDA-01096 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC1	1		TIDA-01096	Any	Printed Circuit Board	
2	C1, C11, C29	3	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0603	0603
3	C2, C4, C5, C21, C23, C24	6	4.7uF	GRJ32DC72A475KE11L	Murata Electronics North America	4.7µF ±10% 100V X7S Ceramic Capacitor -55°C ~ 125°C Surface Mount, MLCC 1210 (3225 Metric) 0.126" L x 0.098" W (3.20mm x 2.50mm)	1210
4	C3, C22	2	0.01uF	GCM188R72A103KA37D	Murata Electronics North America	10000pF ±10% 100V X7R Ceramic Capacitor -55°C ~ 125°C Surface Mount, MLCC 0603 (1608 Metric) 0.063" L x 0.031" W (1.60mm x 0.80mm)	0603
5	C6, C12, C20	3	10uF	GRT188C81A106ME13D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X6S, AEC-Q200 Grade 2, 0603	0603
6	C7, C10, C13, C27, C28	5	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
7	C8, C18, C19, C25	4	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210
8	C9, C26	2	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 µF, 25 V, +/- 10%, X7R, 0603	0603
9	C14, C33	2	0.47uF	GRM188R71A474KA61D	MuRata	CAP, CERM, 0.47 µF, 10 V, +/- 10%, X7R, 0603	0603
10	C15, C32	2	0.047uF	GRM155R71A473KA01D	MuRata	CAP, CERM, 0.047 µF, 10 V, +/- 10%, X7R, 0402	0402
11	C16, C31	2	4700pF	GCM188R72A103KA37D	Maruta	10000pF ±10% 100V X7R Ceramic Capacitor -55°C ~ 125°C Surface Mount, MLCC 0603 (1608 Metric) 0.063" L x 0.031" W (1.60mm x 0.80mm)	0603
12	C17, C30, C34, C35	4	470pF	C0603X471K5RACTU	Kemet	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
13	D1, D3	2	80V	MBR0580-TP	Micro Commercial Components	Diode, Schottky, 80 V, 0.5 A, SOD-123	SOD-123
14	D2, D4	2	80V	SK310AFL-TP	Micro Commercial Co	DIODE SCHOTTKY 100V 3A DO221AC	SMA
15	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
16	H1, H2, H3, H4	4		PMSSS 440 0025 PH	B&F Fastener Supply	MACHINE SCREW PAN PHILLIPS 4-40	Machine Screw, 4-40, 1/4"
17	H5, H6, H7, H8	4		1902E	Keystone	Standoff, Hex, 1"L #4-40 Nylon	Standoff
18	J1, J3, J7	3		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
19	J2	1		SL 11 112 03G	Fischer Elektronik	Header, 2.54mm, 3x1, Gold, TH	TH, 3-Leads, Body 2.5x7.62mm, Pitch 2.54mm
20	J4	1		TSW-105-07-G-S	Samtec	Header, 100mil, 5x1, Gold, TH	5x1 Header
21	J5, J6	2		PEC10DAAN	Sullins Connector Solutions	Header, 100mil, 10x2, TH	Header, 10x2, 2.54mm, TH
22	L1, L2	2	33uH	744770133	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Ferrite, 33uH, 3.2A, 0.047 ohm, SMD	WE-PD-XL
23	R1, R8	2	120k	CRCW0603120KFKEA	Vishay Dale	RES SMD 120K OHM 1% 1/10W 0603	0603
24	R2, R3, R9, R11	4	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
25	R4, R10	2	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	0603
26	R5, R12	2	191k	CRCW0603191KFKEA	Vishay-Dale	RES, 191 k, 1%, 0.1 W, 0603	0603
27	R6, R13	2	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
28	R7, R14	2	0.05	CSRN2512FK50L0CT-ND	Stackpole Electronics Inc	RES, 0.05, 1%, 2 W, 2512	2512
29	R15, R27	2	866	CRCW0603866RFKEA	Vishay-Dale	RES, 866, 1%, 0.1 W, 0603	0603
30	R16, R26	2	8.66k	CRCW06038K66FKEA	Vishay-Dale	RES, 8.66 k, 1%, 0.1 W, 0603	0603
31	R17, R25	2	86.6k	CRCW060386K6FKEA	Vishay-Dale	RES, 86.6 k, 1%, 0.1 W, 0603	0603
32	R18, R24	2	866k	CRCW0603866KFKEA	Vishay-Dale	RES, 866 k, 1%, 0.1 W, 0603	0603
33	R19, R23	2	33.0k	CRCW060333K0FKEA	Vishay-Dale	RES, 33.0 k, 1%, 0.1 W, 0603	0603
34	R20	1	1.50k	RC0603FR-071K5L	Yageo America	RES, 1.50 k, 1%, 0.1 W, 0603	0603
35	R21	1	0	CRCW1206000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
36	R22, R28	2	2.20k	CRCW06032K20FKEA	Vishay Dale	RES SMD 2.2K OHM 1% 1/10W 0603	0603
37	R29, R30	2	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, 0603	0603
38	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19	19	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
39	U1, U3	2		TPS92513HV DGQR	Texas Instruments	1.5A Buck LED Driver with Integrated Analog Current Adjust, DGQ0010D	DGQ0010D
40	U2, U4	2		OPA376AIDBVR	Texas Instruments	Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br)	DBV0005A

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