

TIDA-01633 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-01633	Any	Printed Circuit Board	
2	C1, C11	2	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0402	0402
3	C2, C3, C7, C9, C12, C13, C17, C19, C22, C25	10	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603
4	C6, C8, C16, C18, C23, C26, C27, C28	8	0.01uF	GRM155R71H103JA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	0402
5	C21, C24	2	1uF	C0805C105K5RACTU	Kemet	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
6	C29, C31, C34	3	10uF	C3216X7R1V106K160AC	TDK	CAP, CERM, 10 uF, 35 V, +/- 10%, X7R, 1206	1206
7	C30	1	22uF	GRM32ER71C226KE18L	MuRata	CAP, CERM, 22 uF, 16 V, +/- 10%, X7R, 1210	1210
8	C32	1	4.7uF	C2012X7R1V475M125AC	TDK	CAP, CERM, 4.7 uF, 35 V, +/- 20%, X7R, 0805	0805
9	C33	1	1000pF	202R18W102KV4E	Johanson Technology	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1206_190	1206_190
10	C35, C36, C37, C38	4	820pF	GRM155R71H821KA01D	MuRata	CAP, CERM, 820 pF, 50 V, +/- 10%, X7R, 0402	0402
11	C39, C40	2	2.2pF	GRM1555C1H2R2BA01D	MuRata	CAP, CERM, 2.2 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
12	D3, D4, D5, D6	4	40V	BAS40-04-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.2 A, SOT-23	SOT-23
13	J1, J3, J5, J7	4		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
14	J2, J6, J10	3		282834-2	TE Connectivity	Terminal Block, 2x1, 2.54mm, TH	Terminal Block, 2x1, 2.54mm, TH
15	J4, J8	2		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
16	J9	1		1725669	Phoenix Contact	Terminal Block, 3x1, 2.54 mm, TH	Terminal Block, 3x1, 2.54 mm, TH
17	J11, J13	2		PPPC102LFBN-RC	Sullins Connector Solutions	Receptacle, 100mil, 10x2, Gold, TH	10x2 Receptacle
18	L1, L2	2	470 ohm	742792645	Würth Elektronik	Ferrite Bead, 470 ohm @ 100 MHz, 1 A, 0603	0603
19	R3, R21	2	619	RT0402BRD07619RL	Yageo America	RES, 619, 0.1%, 0.0625 W, 0402	0402
20	R4, R22	2	71.5	RC0603FR-0771R5L	Yageo America	RES, 71.5, 1%, 0.1 W, 0603	0603
21	R5, R11, R23, R29	4	619	RT0402BRD07619RL	Yageo America	RES, 619, .1%, .0625 W, 0402	0402
22	R6, R9, R24, R27	4	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	0402
23	R7, R12, R13, R25, R30, R31, R37, R38, R39, R41, R56, R57	12	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
24	R10, R28	2	10.0k	RT0402BRE0710KL	Yageo America	RES, 10.0 k, .1%, .0625 W, 0402	0402
25	R14, R32	2	2.20k	RC0402FR-072K2L	Yageo America	RES, 2.20 k, 1%, 0.063 W, 0402	0402
26	R15, R16, R18, R33, R34, R36, R42, R46, R52, R53	10	10.0k	RC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, 0402	0402
27	R40	1	110	RC0603FR-07110RL	Yageo America	RES, 110, 1%, 0.1 W, 0603	0603
28	R43	1	4.32k	RC0402FR-074K32L	Yageo America	RES, 4.32 k, 1%, 0.0625 W, 0402	0402
29	R44	1	3.32k	RC0402FR-073K32L	Yageo America	RES, 3.32 k, 1%, 0.0625 W, 0402	0402
30	R47	1	2.00Meg	RC1206FR-072ML	Yageo America	RES, 2.00 M, 1%, 0.25 W, 1206	1206

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31	R48, R49, R50, R51	4	100	RC0402FR-07100RL	Yageo America	RES, 100, 1%, 0.063 W, 0402	0402
32	U1, U3, U5, U7	4		TVS1400DRVR	Texas Instruments	14-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
33	U2, U6	2		XTR305IRGWR	Texas Instruments	Industrial Analog Current/Voltage OUTPUT DRIVER, RGW0020A (VQFN-20)	RGW0020A
34	U9	1		LMZM23601SILR	Texas Instruments	36-V 1-A Step-Down DC-DC Nano Module, SIL0010A (uSIP-10)	SIL0010A
35	U10	1		TLV431AIDBZR	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
36	C4, C5, C14, C15	0	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
37	C41, C42	0	0.01uF	GRM155R71H103JA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	0402
38	D1, D2	0	40V	BAS40-04-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.2 A, SOT-23	SOT-23
39	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
40	R1, R2, R19, R20	0	205	RC0402FR-07205RL	Yageo America	RES, 205, 1%, 0.0625 W, 0402	0402
41	R8, R17, R26, R35, R54	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
42	R45, R55	0	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	0402

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