

**TIDA-010060 REV E1 Bill of Materials**

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-010060	Any	Printed Circuit Board	
2	C1	1	0.47uF	ECQ-E6474KF	Panasonic	CAP, Film, 0.47 uF, 630 V, +/- 10%, TH	Radial 25.7x9.4x19.7
3	C2, C10, C14	3	1uF	GRM155R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0402	0402
4	C3, C11, C15	3	2.2uF	885012105013	Würth Elektronik	CAP, CERM, 2.2 uF, 10 V, +/- 20%, X5R, 0402	0402
5	C4	1	180uF	EKZE500ELL181MH20D	Chemi-Con	CAP, AL, 180 uF, 50 V, +/- 20%, TH	D8xL20mm
6	C5, C9, C19, C21, C37	5	1uF	C1005X7S1A105K050BC	TDK	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, 0402	0402
7	C6	1	2200uF	EEV-FK1A222Q	Panasonic	CAP, AL, 2200 uF, 10 V, +/- 20%, 0.06 ohm, AEC-Q200 Grade 2, SMD	SMT Radial H13
8	C7, C47, C54	3	3.3uF	GRM188R61A335KE15D	MuRata	CAP, CERM, 3.3 uF, 10 V, +/- 10%, X5R, 0603	0603
9	C8	1	0.68uF	B32922C3684K	TDK	CAP, Film, 0.68 uF, 630 V, +/- 10%, TH	B32922_18.5mm
10	C12	1			Panasonic	Aluminum Electrolytic Capacitor, 220 uF, +/- 20%, 35 V, -40 to 85 degC, 2-Pin THD, RoHS, Bulk	
11	C13	1	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
12	C16	1		UUD1V560MCL1GS	Nichicon	Aluminum Electrolytic Capacitor, UD Series, Low Impedance, 56 uF, 35 V, +/- 20%, -55 to 105 degC, Chip Type, 6.3 x 7.7 mm D x L, Pb-Free, Reel	CAPAE-D6.3H7.7
13	C17, C23, C25, C26, C29, C31, C33, C35, C38, C39, C40, C46, C53, C56	14	0.1uF	885012105010	Würth Elektronik	CAP, CERM, 0.1 uF, 10 V, +/- 20%, X5R, 0402	0402
14	C18	1	1.5uF	ECQ-E2W155KH	Panasonic	CAP, Film, 1.5 uF, 450 V, +/- 10%, TH	25.70x8.20x17.20mm
15	C20	1	0.33uF	B32922C3334K	TDK	CAP, Film, 0.33 uF, 630 V, +/- 10%, TH	B32922_14.5mm
16	C22, C30, C34	3	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 20%, X7R, 0402	0402
17	C24	1	0.1uF	C1608X5R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X5R, 0603	0603
18	C27, C32, C36	3	0.1uF	GMK105BJ104KV-F	Taiyo Yuden	CAP, CERM, 0.1 uF, 35 V, +/- 10%, X5R, 0402	0402
19	C28, C41, C57	3	100pF	0603ZC101KAT2A	AVX	CAP, CERM, 100 pF, 10 V, +/- 10%, X7R, 0603	0603
20	C42, C49	2	0.1uF	CL10B104K08NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	0603
21	C43, C50	2	0.068uF	GRM155R61A683KA01D	MuRata	CAP, CERM, 0.068 uF, 10 V, +/- 10%, X5R, 0402	0402
22	C44, C51	2	2.2uF	C5750X6S2W225K250KA	TDK	CAP, CERM, 2.2 uF, 450 V, +/- 10%, X6S, 2220	2220
23	C45, C52	2	100pF	VJ1206Y101KXEAT5Z	Vishay-Vitramon	CAP, CERM, 100 pF, 500 V, +/- 10%, X7R, 1206	1206
24	C48, C55	2	68uF	C3216X5R1A686M160AC	TDK	CAP, CERM, 68 uF, 10 V, +/- 20%, X5R, 1206_190	1206_190
25	D1, D9	2	1000V	1N4007-E3/73	Vishay-Semiconductor	Diode, P-N, 1000 V, 1 A, TH	DO-41
26	D2	1	6.2V	DFLZ6V2-7	Diodes Inc.	Diode, Zener, 6.2 V, 1 W, PowerDI123	PowerDI123
27	D3, D4	2	6V	MMSZ5233BS-7-F	Diodes Inc.	Diode, Zener, 6 V, 200 mW, SOD-323	SOD-323
28	D12	1	600V	DFLR1600-7	Diodes Inc.	Diode, Standard Recovery Rectifier, 600 V, 1 A, PowerDI123	PowerDI123
29	D13, D14, D15, D17	4	600V	STTH1R06A	STMicroelectronics	Diode, Ultrafast, 600 V, 1 A, SMA	SMA
30	D16	1	1000V	MDB10S	Fairchild Semiconductor	Diode, P-N-Bridge, 1000 V, 1 A, MICRODIP_4	MICRODIP_4
31	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
32	H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
33	J1, J4, J7, J8, J17, J19	6		1715734	Phoenix Contact	TERM BLOCK 3POS 5.08MM, TH	15.24x13.8x9.8mm
34	J2, J3, J5, J6, J18, J20	6		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
35	L3, L4	2	1.2mH	768775312	Würth Elektronik	Inductor, Unshielded Drum Core, Metal Composite, 1.2 mH, 0.28 A, 3.77 ohm, SMD	7x5x7.8mm
36	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
37	R1	1	470	45J470E	Ohmite	RES, 470, 5%, 5 W, D8.7mm	D8.7mm
38	R2	1	82	RC1210JR-0782RL	Yageo	RES, 82, 5%, 0.5 W, 1210	1210
39	R3	1	82	CRCW251282R0JNEG	Vishay-Dale	RES, 82, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
40	R4	1	82.0	RC1206FR-0782RL	Yageo America	RES, 82.0, 1%, 0.25 W, 1206	1206
41	R5, R6	2	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
42	R12, R15	2	36.5k	CRCW040236K5FKED	Vishay-Dale	RES, 36.5 k, 1%, 0.063 W, 0402	0402
43	R13, R16	2	10.2k	CRCW040210K2FKED	Vishay-Dale	RES, 10.2 k, 1%, 0.063 W, 0402	0402
44	R14, R17	2	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
45	RF1, RF2, RF3, RF4, RF9, RF10	6	10	AC03000001009JACCS	Vishay-Bcomponents	RES, 10, 5%, 3 W, TH, 2-Leads, Axial, Dia 5.5mm, Pin Spacing 23.8mm	TH, 2-Leads, Axial, Dia 5.5mm, Pin Spacing 23.8mm
46	RV1, RV2, RV3, RV4	4	324 - 396 V	V14E230P	Littelfuse	Varistor, 320V, 6KA, Disc, 14mm, TH	D17mm
47	RV9, RV10	2	324 - 396 V	V14E230P	Littelfuse	Varistor, 324V, 6KA, Disc, 14mm, TH	D17mm
48	U1, U3, U4	3		TPS7A7833PWPR	Texas Instruments	100-mA Non-Isolated Line Power Voltage Regulator, PWP0014E (HTSSOP-14)	PWP0014E
49	U2, U12, U14	3		LP2992AIM5-3.3/NOBP	Texas Instruments	Micropower 250 mA Low-Noise Ultra Low-Dropout Regulator, 5-pin SOT-23	DBV0005A
50	U11, U13	2		UCC28880DR	Texas Instruments	High Voltage Switcher for Non-isolated AC/DC Conversion, D0007A (SOIC-7)	D0007A

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