

TIDA-010018 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-010018	Any	Printed Circuit Board	
2	C1, C5, C7	3	4.7uF	CGB3B1X5R1A475K055AC	TDK	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X5R, 0603	0603
3	C3, C4, C10, C11, C18, C19	6	1uF	CL10B105KP8NUNC	Samsung	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	0603
4	C6	1	6.8uF	C1608X5R1E685K080AC	TDK	CAP, CERM, 6.8 uF, 25 V, +/- 10%, X5R, 0603	0603
5	C8, C9, C12, C13, C14, C15, C16, C17	8	10uF	GRM21BR61C106KE15L	MuRata	CAP, CERM, 10 uF, 16 V, +/- 10%, X5R, 0805	0805
6	C20, C21	2	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
7	C22	1	0.022uF	C0603C223K3RACTU	Kemet	CAP, CERM, 0.022 uF, 25 V, +/- 10%, X7R, 0603	0603
8	D1, D2	2	30V	RB520S30,115	Nexperia	Diode, Schottky, 30 V, 0.2 A, SOD-523	SOD-523
9	FID1, FID2, FID3, FID4, FID5, FID6	6		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
10	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Phillips panhead	Screw
11	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
12	J1, J2, J7, J8, J13, J14, J15	7		61300411121	Würth Elektronik	Header, 2.54 mm, 4x1, Gold, TH	Header, 2.54mm, 4x1, TH
13	J3, J6, J12, J19	4		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
14	J4	1		PEC04DAAN	Sullins Connector Solutions	Header, 100mil, 4x2, Tin, TH	Header, 4x2, 100mil, Tin
15	J5, J10, J11, J16, J17, J18	6		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
16	J9	1		61032021821	Würth Elektronik	Receptacle, 2.54mm, 10x2, Gold, SMT	Receptacle, 2.54mm, 10x2, SMT
17	L1	1	15uH	VLF302515MT-150M	TDK	Inductor, Shielded, Ferrite, 15 uH, 0.56 A, 0.275 ohm, SMD	IND_3x1.5x3mm
18	L2	1	4.7uH	DFE252012P-4R7M=P2	MuRata	Inductor, Shielded, Metal Composite, 4.7 uH, 1.4 A, 0.2 ohm, SMD	1008
19	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
20	Logo4, Logo5, Logo6	3		CAUTION. READ USER GUIDE BEFORE USE		IEC 61010-1 Caution Warning	
21	R1, R3, R4, R10, R17, R19, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32	17	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
22	R5	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
23	R9	1	1.00	CRCW12061R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
24	R11	1	1.80Meg	CRCW06031M80FKEA	Vishay-Dale	RES, 1.80 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
25	R12	1	1.30Meg	CRCW06031M30FKEA	Vishay-Dale	RES, 1.30 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R14	1	560k	CRCW0603560KFKEA	Vishay-Dale	RES, 560 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
27	R15	1	576k	CRCW0603576KFKEA	Vishay-Dale	RES, 576 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
28	R16	1	191k	CRCW0603191KFKEA	Vishay-Dale	RES, 191 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	SH-J3, SH-J4-1, SH-J4-2, SH-J4-3, SH-J5, SH-J6, SH-J10, SH-J11, SH-J12, SH-J16, SH-J17, SH-J18, SH-J19	13		60900213521	Würth Elektronik	Shunt, 2.54mm, Gold, Red	Shunt, 2.54mm, Red
30	T1	1	3mH	750314839	Würth Elektronik	Transformer, 3mH, SMT	9.78x10.54x9.14mm
31	U1	1		TPS60402DBVR	Texas Instruments	-1.8 to -5.25 V, Inverting Charge Pump Regulator, 60 mA, 1.8 to 5.25 V Input with 2-Cell Alkaline / Nixx Input, -40 to 85 degC, 5-pin SOT23 (DBV5), Green (RoHS & no Sb/Br)	DBV0005A
32	U2, U5	2		TPS72730DSET	Texas Instruments	250-mA, Ultralow IQ, Fast Transient Response, RF Low-Dropout Linear Regulator, DSE0006A (WSON-6)	DSE0006A
33	U3	1		TPS62125DSGR	Texas Instruments	3V-17V, 300mA Buck Converter With Adjustable Enable Threshold And Hysteresis, DSG0008A (WSON-8)	DSG0008A
34	U4	1		TPS62745DSSR	Texas Instruments	10Vin Ultra Low Iq Step-Down Converter, DSS0012A (WSON-12)	DSS0012A
35	U6	1		ISO7041DBQ	Texas Instruments	Ultra-Low Power Four-Channel Digital Isolator, DBQ0016A (SSOP-16)	DBQ0016A
36	C2	0	560pF	GRM155R71H561KA01D	MuRata	CAP, CERM, 560 pF, 50 V, +/- 10%, X7R, 0402	0402
37	R2	0	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
38	R6, R8	0	499k	CRCW0402499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
39	R7, R20, R21	0	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
40	R13, R18	0	2.00Meg	CRCW06032M00FKEA	Vishay-Dale	RES, 2.00 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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