

TIDA-010026 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	1000pF	1812GC102KAT1A	AVX	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1812	1812
2	C2, C7	2	10uF	GRM32ER71H106MA12	MuRata	CAP, CERM, 10 uF, 50 V, +/- 20%, X7R, 1210	1210
3	C3, C8	2	470pF	GRM033R71E471KA01D	MuRata	CAP, CERM, 470 pF, 25 V, +/- 10%, X7R, 0201	0201
4	C4, C6, C9	3	0.1uF	885012206095	Würth Elektronik	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
5	C5	1	22uF	GMK325BJ226MM-P	Taiyo Yuden	CAP, CERM, 22 uF, 35 V, +/- 20%, X5R, 1210	1210
6	C10	1	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
7	C11	1	3300pF	GRM155R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0402	0402
8	C13, C17, C18, C19, C20, C22, C26, C27	8	0.1uF	885012205037	Würth Elektronik	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
9	C14, C16, C23, C25	4	330pF	885012006060	Würth Elektronik	CAP, CERM, 330 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
10	D1, D2	2	Green	150060GS75000	Würth Elektronik	LED, Green, SMD	LED_0603
11	FID1, FID2, FID3, FID4, FID5, FID6	6		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
12	J1	1		618015231121	Würth Elektronik	Receptacle, D-Sub, 15 Position, R/A, TH	Receptacle, D-Sub, 15 Position, R/A, TH
13	J2, J3	2		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
14	J4	1		61301011121	Würth Elektronik	Header, 2.54mm, 10x1, Gold, TH	Header, 2.54mm, 10x1, TH
15	J5	1		694106106102	Würth Elektronik	DC POWER JACK, R/A, SMD	DC Power Jack, R/A, SMD
16	J6	1		61000218321	Würth Elektronik	Header, 2.54mm, 2x1, Gold, SMT	Header, 2.54mm, 2x1, SMT
17	L1	1	22uH	74404042220	Würth Elektronik	Inductor, Shielded, Ferrite, 22 uH, 0.7 A, 0.348 ohm, SMD	4x4mm
18	L2, L3	2	100 ohm	742792711	Würth Elektronik	Ferrite Bead, 100 ohm @ 100 MHz, 0.2 A, 0402	0402
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	R1	1	10Meg	CRCW120610M0JNEA	Vishay-Dale	RES, 10 M, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
21	R2	1	150k	CRCW0402150KJNED	Vishay-Dale	RES, 150 k, 5%, 0.063 W, 0402	0402
22	R3, R6, R21, R27, R32, R36	6	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
23	R4, R20, R33	3	22	CRCW040222R0JNED	Vishay-Dale	RES, 22, 5%, 0.063 W, 0402	0402
24	R8	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
25	R9	1	30k	CRCW040230K0JNED	Vishay-Dale	RES, 30 k, 5%, 0.063 W, 0402	0402
26	R10	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
27	R11, R12, R19, R25, R29, R31, R38, R39	8	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
28	R13	1	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R14	1	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2 k, 5%, 0.063 W, 0402	0402
30	R15	1	316k	CRCW0603316KFKEA	Vishay-Dale	RES, 316 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
31	R16	1	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
32	R17	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
33	R18, R24, R30, R37	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
34	R22, R23, R34, R35	4	59.0	RC0603FR-0759RL	Yageo America	RES, 59.0, 1%, 0.1 W, 0603	0603
35	R26, R28, R40, R41	4	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
36	TP1, TP2, TP3	3		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
37	U6	1		TPS62125DSGR	Texas Instruments	3V-17V, 300mA Buck Converter With Adjustable Enable Threshold And Hysteresis, DSG0008A (WSON-8)	DSG0008A
38	U7	1		TPS82150SILR	Texas Instruments	17V Input 1A Synchronous Step-Down Converter MicroSiP Module With Integrated Inductor, SIL0008D (uSiP-8)	SIL0008D
39	U8, U11	2		THVD1450DGK	Texas Instruments	3.3-V to 5-V RS-485 Transceivers With +/- 16-kV IEC ESD Protection, DGK0008A (VSSOP-8)	DGK0008A
40	U9, U10, U12	3		SN74LVC2T45YZPR	Texas Instruments	Dual-Bit Dual Supply Transceiver with Configurable Voltage Translation and 3-State Outputs, YZP0008ADAD, LARGE T&R	YZP0008ADAD
41	C12, C21	0	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X5R, 0402	0402
42	C15, C24	0	680pF	GRM1885C1H681JA01D	MuRata	CAP, CERM, 680 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
43	R5	0	22	CRCW040222R0JNED	Vishay-Dale	RES, 22, 5%, 0.063 W, 0402	0402

44	R7	0	0	CRCW04020000Z0ED	Vishay-Dale	RES. 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
45	U1, U2, U3, U4, U5	0		TVS1401DRBR	Texas Instruments	14 V Bidirectional Flat-Clamp Surge Protection Device, DRB0008A (VSON-8)	DRB0008A

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