

TIDA-01598 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-01598	Any	Printed Circuit Board	
2	C1	1	10uF	TAJB106K016RNJ	AVX	CAP, TA, 10 uF, 16 V, +/- 10%, 2.8 ohm, SMD	3528-21
3	C2	1	0.1uF	C0805C104K4RACTU	Kemet	CAP, CERM, 0.1 uF, 16 V,+/- 10%, X7R, 0805	0805
4	C3, C8, C11, C16, C17, C19, C20	7	0.1uF	885012205037	Würth Elektronik	CAP, CERM, 0.1 uF, 16 V,+/- 10%, X7R, 0402	0402
5	C4	1	0.22uF	C0603C224J3RAC7867	Kemet	CAP, CERM, 0.22 uF, 25 V, +/- 5%, X7R, 0603	0603
6	C5, C6, C9, C10, C13, C14	6	1uF	C1005X5R1E105K050BC	TDK	CAP, CERM, 1 uF, 25 V,+/- 10%, X5R, 0402	0402
7	C7, C12, C15	3	0.01uF	GRM155R61A103KA01D	MuRata	CAP, CERM, 0.01 uF, 10 V,+/- 10%, X5R, 0402	0402
8	C18	1	1000pF	C0402C102J3RACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 5%, X7R, 0402	0402
9	D1	1	5.6V	MMSZ5232B-7-F	Diodes Inc.	Diode, Zener, 5.6 V, 500 mW, SOD-123	SOD-123
10	D2, D3, D4	3	3.6V	MMSZ4685T1G	ON Semiconductor	Diode, Zener, 3.6 V, 500 mW, SOD-123	SOD-123
11	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
12	H1, H2, H3, H4, H9, H11	6		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
13	H5, H6, H7, H8, H10, H12	6		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
14	J1, J4	2		OSTVN02A150	On-Shore Technology	Terminal Block, 2.54mm, 2x1, Brass, TH	Terminal Block, 2.54mm, 2-pole, Brass, TH
15	J2, J3	2		1715048	Phoenix Contact	Terminal Block, 5mm, 4x1, R/A,TH	Terminal Block, 5mm, 4x1, TH
16	J5, J6	2		SSQ-110-03-T-D	Samtec	Receptacle, 2.54mm, 10x2, Tin, TH	10x2 Receptacle
17	J7	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
18	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
19	R1, R5	2	330k	ERJ-3EKF3303V	Panasonic	RES, 330 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
20	R2, R4	2	499k	ERJ-3EKF4993V	Panasonic	RES, 499 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
21	R3	1	68.1	CRCW060368R1FKEA	Vishay-Dale	RES, 68.1, 1%, 0.1 W, 0603	0603
22	R7	1	0.002	W5LP39212L000FEA	VISHAY DALE	RES 0.002 OHM 1% 5W 3921	
23	R8	1	196k	RT0603BRD07196KL	Yageo America	RES, 196 k, 0.1%, 0.1 W, 0603	0603
24	R9, R11, R15	3	10.0k	CRCW040210K0DHEDP	Vishay-Dale	RES, 10.0 k, 0.5%, 0.063 W, 0402	0402
25	R10, R14	2	3.30k	ERJ-2RKF3301X	Panasonic	RES, 3.30 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
26	R12, R16	2	3.32Meg	CRCW04023M32FKED	Vishay-Dale	RES, 3.32 M, 1%, 0.063 W, 0402	0402
27	R13	1	249k	RG1608P-2493-B-T5	Susumu Co Ltd	RES, 249 k, 0.1%, 0.1 W, 0603	0603
28	R17	1	102k	RT0603BRD07102KL	Yageo America	RES, 102 k, 0.1%, 0.1 W, 0603	0603
29	R18	1	100	RC0402FR-07100RL	Yageo America	RES, 100, 1%, 0.063 W, 0402	0402
30	TP1, TP2, TP3, TP4	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
31	TP5, TP6, TP9, TP11, TP13, TP15, TP16	7		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
32	TP7, TP8, TP10, TP12, TP14	5		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
33	U1	1		LTS 15-NP	LEM	Current Transducer, TH	TH, 9-Leads, Body 22.2x10mm
34	U2	1		OPA350UA/2K5	Texas Instruments	High-Speed, Single-Supply, Rail-to-Rail Operational Amplifier MicroAmplifier(TM) Series, 2.7 to 5.5 V, -40 to 85 degC, 8-pin SOIC (D8), Green (RoHS & no Sb/Br)	D0008A
35	U3	1		LP2985-50DBVR	Texas Instruments	Single Output Low Noise LDO, 150 mA, Fixed 5 V Output, 1.5% Tolerance, 2.2 to 16 V Input, Low IQ, 5-Pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br), Tape and Reel	DBV0005A
36	U4	1		INA240A2PWR	Texas Instruments	High/Low Side, Bi-Directional Zero-Drift Current Sense Amp w/ Enhanced PWM Rejection, PW0008A (TSSOP-8)	PW0008A
37	U5, U8	2		TPS71733DCKT	Texas Instruments	Single Output High PSRR LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 6.5 V Input, with Low IQ, 5-pin SC70 (DCK), -40 to 85 degC, Green (RoHS & no Sb/Br)	DCK0005A
38	U6	1		LMV393M/NOPB	Texas Instruments	Dual General Purpose, Low Voltage, Tiny Pack Comparator, 8-pin Narrow SOIC, Pb-Free	D0008A
39	U7	1		TLV431BCDBVR	Texas Instruments	Low-Voltage Adjustable Precision Shunt Regulator, 15 mA, 0 to 70 degC, 5-pin SOT-23 (DBV), Green (RoHS & no Sb/Br)	DBV0005A
40	U9	1		TLV76033DBZR	Texas Instruments	100-mA, 30-V, Fixed-Output, Linear-Voltage Regulator, DBZ0003A (SOT-23-3)	DBZ0003A
41	U10, U11	2		SN74LVC1G17DRLR	Texas Instruments	Single Schmitt-Trigger Buffer, DRL0005A, LARGE T&R	DRL0005A
42	R6	0	0.004	PMR50HZPFV4L00	Rohm	RES, 0.004, 1%, 1 W, 2010	2010

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