

TIDA-01546 REV E2 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1	1	TIDA-01546	Any	Printed Circuit Board	
2	C1	1	3300pF	GRM188R71H332KA01D	MuRata	CAP, CERAM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
3	C2, C3, C5, C6, C7	5	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERAM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
4	C4, C8, C10	3	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERAM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
5	C9, C13	2	0.1uF	160R07X104KV4T	Johanson Technology	CAP, CERAM, 0.1 uF, 16 V, +/- 10%, X6R, 0402	0402
6	C11	1	1000pF	202R16W102KV4E	Johanson Technology	CAP, CERAM, 1000 pF, 2000 V, +/- 10%, X7R, 1206	1206
7	C12, C20, C25, C26	4	12pF	GRM1555C1H120JA01D	MuRata	CAP, CERAM, 12 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
8	C14, C23	2	1uF	0805YD105KA2TA	AVX	CAP, CERAM, 1 uF, 16 V, +/- 10%, X6R, 0805	0805
9	C15, C16, C17, C18, C24	5	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERAM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
10	C19	1	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERAM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
11	C22	1	2.2uF	GRM188R61C225KE15D	MuRata	CAP, CERAM, 2.2 uF, 16 V, +/- 10%, X6R, 0603	0603
12	C27	1	3300pF	0603SC332KA12A	AVX	CAP, CERAM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
13	C28	1	1000pF	0402YC101KA12A	AVX	CAP, CERAM, 100 pF, 16 V, +/- 10%, X7R, 0402	0402
14	D1	1	5.6V	BZT52C5V6T-7	Diodes Inc.	Diode, Zener, 5.6 V, 300 mW, SOD-523	SOD-523
15	J1	1		PEC08SAAN	Sullins Connector Solutions	Header, 100mil, 8x1, Tin, TH	Header, 8x1, 100mil, TH
16	J2	1		PEC030AAN	Sullins Connector Solutions	Header, 100mil, 3x2, Tin, TH	3x2 Header
17	J3	1		39357-0003	Molex	Terminal Block, 3.5 mm, 3x1, Tin, TH	Terminal Block, 3.5 mm, 3x1, TH
18	J4, J5, J6, J10, J14, J15, J16, J17, J20	9		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
19	J7, J9	2		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
20	J8	1		PEC01SAAN	Sullins Connector Solutions	Header, 1x1, Tin, TH	Header, 1x1
21	J11	1		2908-05WB-MG	3M	Connector, Micro SD, R/A, SMD	Connector, Micro SD, R/A, SMD
22	J12	1					
23	J13	1		10118194-0001LF	FCI	Receptacle, USB 2.0, Micro-USB Type B, R/A, SMT	USB-micro B USB 2.0, 0.65mm, 5 Pos, R/A, SMT
24	J18	1		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
25	LBL1	1		1HT-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
26	LED1	1	Orange	LTST-C191KFKT	Lite-On	LED, Orange, SMD	LED 0603
27	LED2	1	Green	LTST-C191TGKT	Lite-On	LED, Green, SMD	LED 0603
28	LED3	1	Red	LTST-C190CKT	Lite-On	LED, Red, SMD	Red LED, 1.6x0.8x0.8mm
29	LED4	1	Blue	LTST-C193TBKT-6A	Lite-On	LED, Blue, SMD	1.6x0.8mm
30	Q1	1	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
31	Q2	1	-50V	BSS84W-7-F	Diodes Inc.	MOSFET, P-CH, -50 V, -0.13 A, SOT-323	SOT-323
32	Q3	1	50V	BSS138W-7-F	Diodes Inc.	MOSFET, N-CH, 50 V, 0.2 A, SOT-323	SOT-323
33	Q4	1	12V	CSD13383F4	Texas Instruments	MOSFET, N-CH, 12 V, 2.9 A, YJCO003A (PICOSTAR-3)	YJCO003A
34	R1	1	10k	CRCW0603100KJNEA	Vishay-Dale	RES, 10k ohm, 5%, 0.1W, 0603	0603
35	R2, R12, R13	3	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
36	R3, R4, R18, R42, R43, R56, R62, R63, R67, R69	10	10.0k	CRCW0603100KFKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
37	R5	1	165k	CRCW0603165KFKEA	Vishay-Dale	RES, 165 k, 1%, 0.1 W, 0603	0603
38	R6, R7, R10, R17, R20, R41, R70	7	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
39	R8	1	160k	RG1608P-164-B-T5	Susumu Co Ltd	RES, 160 k, 0.1%, 0.1 W, 0603	0603
40	R9	1	16.5k	RG1608P-1652-B-T5	Susumu Co Ltd	RES, 16.5 k, 0.1%, 0.1 W, 0603	0603
41	R11, R14	2	90.9k	RG1608P-9092-B-T5	Susumu Co Ltd	RES, 90.9 k, 0.1%, 0.1 W, 0603	0603
42	R15, R21, R24, R27, R34, R58, R77, R80, R92	9	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
43	R16, R22, R26	3	1.0k	CRCW0603100JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.1W, 0603	0603
44	R23, R74	2	1.0Meg	CRCW06031M0JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.1 W, 0603	0603
45	R25	1	2.2Meg	CRCW06032M2JNEA	Vishay-Dale	RES, 2.2 M, 5%, 0.1 W, 0603	0603
46	R29, R30	2	1.0k	CRCW0603100KFKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
47	R31	1	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
48	R32	1	6.8k	CRCW20106K80JNEF	Vishay-Dale	RES, 6.8 k, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
49	R33	1	0.1	WLSL2010R1000FEA	Vishay-Dale	RES, 0.1, 1%, 0.5 W, 2010	2010
50	R36	1	330k	CRCW0805330KJNEA	Vishay-Dale	RES, 330 k, 5%, 0.125 W, 0805	0805
51	R37, R38, R39, R40, R44, R52	6	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
52	R49, R50, R51, R53	4	33.0	CRCW0603330RFKEA	Vishay-Dale	RES, 33.0, 1%, 0.1 W, 0603	0603
53	R54, R60	2	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
54	R64, R65, R68	3	390	CRCW0402390RJNED	Vishay-Dale	RES, 390, 5%, 0.063 W, 0402	0402
55	R66	1	470	CRCW0402470RJNED	Vishay-Dale	RES, 470, 5%, 0.063 W, 0402	0402
56	R71	1	4.87k	ERA-2AE84871X	Panasonic	RES, 4.87 k, 0.1%, 0.062 W, AEC-Q200 Grade 0, 0402	0402
57	R73	1	2.0k	ERJ-2RKF2001X	Panasonic	RES, 2.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
58	R93	1	47k	CRCW040247KJNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, 0402	0402
59	RESE11, S1, S2, S3, S4	5		TL1015AF1600G	E-Switch	Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	Switch, 4.4x2x2.9 mm
60	RT1	1	10.0k ohm	103AT-2	SEMITEC Corporation	Thermistor NTC, 10.0k ohm, 1%, Disc, 5x8.4 mm	Disc, 5x8.4 mm
61	TP1, TP2, TP3, TP4, TP5, TP8, TP9, TP10, TP11, TP12	10	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
62	U1, U2, U10	3		TPD1E10B06DPYR	Texas Instruments	ESD in 0402 Package with 10 pF Capacitance and 6 V Breakdown, 1 Channel, -40 to +125 degC, 2-pin X2SON (DPY), Green (RoHS & no Sb/Br)	DPY0002A
63	U3	1		BQ35100PWR	Texas Instruments	Single Lithium Primary State-of-Health and End-of-Service Monitor, PW0014A	PW0014A
64	U4	1		ADS7142IRUGR	Texas Instruments	Nanopower, Ultra-Small Size, Sensor Monitor with I2C Interface and Alert Output, RUG0010A (X2QFN-10)	RUG0010A
65	U5	1		LPV521MG	Texas Instruments	Nanopower 400nA, 1.8V, R-R I/O CMOS Op Amp, DCK0005A	DCK0005A
66	U6	1		TM4C129ENCPTD13R	Texas Instruments	IoT enabled High performance 32-bit ARM(R) Cortex(R)M4F based MCU, PDT0128A (TQFP-128)	PDT0128A
67	U8	1		TPS22860DBVR	Texas Instruments	TPS22860 Ultra-low leakage load switch, DBV0006A (SOT-23-6)	DBV0006A
68	Y1	1		ABS07-32.768KHZ-9-T	Abrakon Corporation	CRYSTAL, 32.768KHZ, 9PF, SMD	3.2x0.9x1.5mm
69	Y2	1		NK3225GA-25.000M-STD-CRG-2	NDK	Crystal, 25 MHz, 8pF, SMD	3.2x0.75x2.5mm
70	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
71	R19	0	0.1	WLSL2010R1000FEA	Vishay-Dale	RES, 0.1, 1%, 0.5 W, 2010	2010
72	R28	0	47k	CRCW060347KJNEA	Vishay-Dale	RES, 47 k, 5%, 0.1 W, 0603	0603
73	R35, R90	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
74	R45, R46, R47, R48, R55, R57, R61, R75, R81	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
75	R94	0	10Meg	CRCW040210MJNED	Vishay-Dale	RES, 10 M, 5%, 0.063 W, 0402	0402
76	R95	0	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
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