

TIDA-01480 REV E2 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	Package/Reference
1	C10	1	10k	TEC14145	Any	Printed Circuit Board	
2	C1, C14, C16, C18, C26, C43	8	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
3	C2, C16, C19, C23, C24, C27, C37, C44, C46, C49	10	2.2uF	GRM18BR7A225KE15D	Murata	CAP, CERMA, 2.2 uF, 10 V, +/- 10%, X7R, 0603	0603
4	C4, C4, C6, C6, C16, C17, C20, C21, C26, C29, C30, C31, C38, C39, C45, C48	16	22uF	C30120S1A22M125AC	TK	CAP, CERMA, 22 uF, 10 V, +/- 20%, X7S, 0805	0805
5	C7, C32, C114, C115	4	1uF	B6512106017	Wurth Elektronik	CAP, CERMA, 1 uF, 16 V, +/- 20%, X6R, 0603	0603
6	C6, C12, C13, C20, C24, C25, C33, C34, C35, C39, C70, C71, C72	14	22uF	C3250R7C22K250AC	TK	CAP, CERMA, 22 uF, 16 V, +/- 10%, X6R, 1210	1210
7	C22, C47	2	1500pF	GRM156R71H150KA1D	Murata	CAP, CERMA, 1500 pF, 50 V, +/- 10%, X7R, 0402	0402
8	C25, C50	2	0.1uF	B6512010025	Wurth Elektronik	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0805	0805
9	C51, C56, C57	6	0.1uF	C1000R7E10M4G5BB	TK	CAP, CERMA, 0.1 uF, 25 V, +/- 20%, X7R, 0402	0402
10	C58, C77, C78	3	0.1uF	GRM18BR7A104KE15L	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 1210	1210
11	C62, C79	2	499pF	GRM155C11E49JA1D	Murata	CAP, CERMA, 47 pF, 25 V, +/- 5%, COGNATO, 0402	0402
12	C3, C49	2	0.1uF	C30181BR7A104K50AC	TK	CAP, CERMA, 0.1 uF, 15 V, +/- 10%, X7R, 0603	0603
13	C57, C81	2	330nF	C1000R7H147K05GBB	TK	CAP, CERMA, 0.001 uF, 50 V, +/- 10%, X7R, 0402	0402
14	C90, C100, C101, C102	4	100pF	GRM155C100T10JA1D	Murata	CAP, CERMA, 100 pF, 35 V, +/- 5%, COGNATO, 0402	0402
15	C103, C106, C107	3	330pF	GRM155C100T10JA1D	Murata	CAP, CERMA, 510 pF, 25 V, +/- 5%, COGNATO, 0402	0402
16	C104, C106, C111, C112	4	100pF	GRM155C100T10JA1D	Murata	CAP, CERMA, 100 pF, 50 V, +/- 5%, COGNATO, 0402	0402
17	C105, C110, C113, C115	4	100pF	GRM155C1100P401D	Murata	CAP, CERMA, 10 pF, 50 V, +/- 1%, COGNATO, 0402	0402
18	C92	1	Gold Wire	LAJ2076A	Paragon	LED, Gold Wire, SMD	3x2.8mm
19	C93	1	Red	LAJ2076A	Paragon	LED, Red, SMD	3x2.8mm
20	C4, C7, C9, C9, C10	5	Green	LAJ2076A	Paragon	LED, Green, SMD	1.8x0.8x0.8mm
21	C95	1	Orange	LAJ2076A	Paragon	LED, Orange, SMD	1.8x0.8x0.8mm
22	C96	1	Yellow	LAJ2076A	Paragon	LED, Yellow, SMD	1.8x0.8x0.8mm
23	C11, C12	2	1/8"	NY PM5 44 0026 PH	B&P Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	8mm
24	C45, C4	2	12005	23005	C&I Inc	Standard, Hsg, 0.1x1.44-0.40mm	0.6x0.6"
25	C1	1	1.25	23005	C&I Inc	Connector, DC Jack 2.5 mm Center Pin, 5k	Connector 2.5 mm
26	C97	1	175066		Phoenix Contact	Terminal Block, 10mm, 2x1, 6A, 85V, 1H	Center Pin, 1H
27	C98	1	MP5 047 70-D1-LV		Samtec	Receptacle, 10mm, 4x1, Gold with Tin tail, 1H	Receptacle, 10mm, 4x1, 1H
28	C97	1	BSE 060-D1-LC-A		Samtec	Socket Assembly, 0.8mm, 60x2, 0.60, SMT	Socket Assembly, 0.8mm, 60x2, SMT
29	C1, L2, L3, L4, L5, L6	6	2.2uH	FFM25010ALMA2RMTAA	TK	Inductor, Fin, 2.2 uH, 2.6 A, 0.084 ohm, AEC-Q200 Grade 0, SMD	2.5x2mm
30	C1	1	470nH	PLP2502C2ERR47M01	Vishay-Dale	Inductor, Shielded Drum Core, Powdered Iron, 470 nH, 17.5 A, 0.004 ohm, SMD	PLP-2502C2
31	C1	1	470nH	PLP2502C2ERR47M01	Vishay-Dale	Inductor, Shielded Drum Core, Powdered Iron, 470 nH, 17.5 A, 0.0081 ohm, SMD	4.49x2x5.18mm
32	C31, C33, C4, C5, C6, C7, C8, C9	8	800V	80V050-7-F	Stokes Inc	MOSEFT, 1.5kV, 45V, 0.11A, SOT-23	SOT-23
33	C32	1	250V	ES56A-7-F	Stokes Inc	MOSEFT, 1.5kV, 50 V, 0.11 A, SOT-23	SOT-23
34	C31, R30	2	10.0	RCW040210R0PKED	Vishay-Dale	RES, 10.0 k, 5%, 0.063 W, 0402	0402
35	C32, R31, R31, R32	4	0.36	RCW0402036R0PKED	Vishay-Dale	RES, 0.36 k, 5%, 0.063 W, 0402	0402
36	C33, R32, R32, R37	4	0.36	RCW0402036R0PKED	Vishay-Dale	RES, 0.36 k, 5%, 0.063 W, 0402	0402
37	C37	1	10.0k	RCW040210R0PKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
38	C38, R33, R33, R43, R87, R88, R89, R94, R99	9	10k	RCW040210K0PKED	Vishay-Dale	RES, 10.0 k, 5%, 0.063 W, 0402	0402
39	R3, R15, R22, R23, R46, R48, R49, R56, R61, R74	11	100k	R2100P-104B-T5	Sonotone Co Ltd	RES, 100 k, 0.1%, 0.063 W, 0402	0402
40	R11, R12, R13, R14, R44, R45, R46, R47, R60, R72, R90, R91, R92, R95, R96, R100	16	10k	RCW040210K0PKED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
41	R16, R49, R54, R56	4	200k	RCW0402200R0PKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, 0402	0402
42	R17	1	200k	RCW0402200R0PKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, 0402	0402
43	R18	1	200k	RCW0402200R0PKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, 0402	0402
44	R24, R81, R73	3	49.9k	RCW0402499R0PKED	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
45	C29, R39, R37	3	5	RCW0402050R0PKED	Vishay-Dale	RES, 5.0 k, 5%, 0.063 W, 0402	0402
46	R38, R101	2	1.04.0k	RCW0402040R0PKED	Vishay-Dale	RES, 24.9 k, 1%, 0.063 W, 0402	0402
47	R40	1	88.5k	RCW0402885R0PKED	Vishay-Dale	RES, 88.5 k, 1%, 0.063 W, 0402	0402
48	R50	1	88.5k	RCW0402885R0PKED	Vishay-Dale	RES, 88.5 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
49	R64, R65, R75	4	51.1k	RCW0402511R0PKED	Vishay-Dale	RES, 51.1 k, 1%, 0.063 W, 0402	0402
50	R76	1	0	RCW12060000000EA	Vishay-Dale	RES, 0.0, 0.25 W, 1206	1206
51	R77, R79	2	10.0k	R2402R20710KPL	Yageo America	RES, 10.0 k, 1%, 0.025 W, 0402	0402
52	R102, R104, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R116, R116	16	100k	RCW0402100K0PKED	Vishay-Dale	CAP, 10.0 k, 5%, 0.063 W, 0402	0402
53	R117	1	340	RCW0402340R0PKED	Vishay-Dale	RES, 340.0 k, 0.063 W, 0402	0402
54	R118	1	150	RCW0402150R0PKED	Vishay-Dale	RES, 150.0 k, 0.1 W, AEC-Q200 Grade 0, 0402	0402
55	R119, R120, R122, R129, R130, R131	6	150	RCW0402150R0PKED	Vishay-Dale	RES, 150.0 k, 5%, 0.063 W, 0402	0402
56	R132	1	150	RCW0402150R0PKED	Vishay-Dale	RES, 150.0 k, 5%, 0.063 W, 0402	0402
57	R124, R124, R125, R126, R127, R128, R132, R133, R134	9	0	RCW0402100000000EA	Vishay-Dale	RES, 0.0, 5%, 0.063 W, 0402	0402
58	R135, R141, R143, R145, R146, R147, R150, R152, R154	9	0	RCW0201000000000EA	Vishay-Dale	RES, 0.0, 5%, 0.05 W, 0501	0501
59	C1, U3	2	1	KT32T-LJ/S	C&K Components	Switch, Tactile, SPST NO, BMT	Switch, 6.2x6.2 mm
60	U1, U3	2	1	PS560238R3BR	Texas Instruments	4-Channel Power Management IC (PMIC) with 350VDCs, 3 LDOs, DC-DC and DVS, BSB0040B (DS90LV04)	REB0040B
61	U5	1	1	PS5602310RNR	Texas Instruments	4.0V to 17V Input, DCAPI3 Mode, 12A Synchronous Step-Down Converter, BSB0040B (DS90LV04)	REB0040B
62	U7	1	1	PS5602310RNR	Texas Instruments	4.0V to 17V Input, DCAPI3 Mode, 12A Synchronous Step-Down Converter, BSB0040B (DS90LV04)	REB0040B
63	C3, C40, C44	0	2.2uF	GRM18BR7A225KE15D	Murata	CAP, CERMA, 2.2 uF, 10 V, +/- 10%, X7R, 0603	0603
64	C10, C41, C55	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
65	C11, C42, C46	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
66	C52, C53	0	22uF	C30120S1A22M125AC	TK	CAP, CERMA, 22 uF, 10 V, +/- 20%, X7S, 0805	0805
67	C54	0	22uF	C30120S1A22M125AC	TK	CAP, CERMA, 22 uF, 10 V, +/- 20%, X7S, 0805	0805
68	C55, C56, C57, C57, C58	0	15uF	GRM18BR7A150KE15L	Murata	CAP, CERMA, 10 uF, 6.3 V, +/- 10%, X7R, 0805	0805
69	C58, C59	0	22uF	C30120S1A22M125AC	TK	CAP, CERMA, 22 uF, 10 V, +/- 20%, X7S, 0805	0805
70	C60, C61	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 1210	1210
71	C62	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 6.3 V, +/- 10%, X7R, 0805	0805
72	C63	0	22uF	C30120S1A22M125AC	TK	CAP, CERMA, 22 uF, 10 V, +/- 20%, X7S, 0805	0805
73	C64	0	22uF	C30120S1A22M125AC	TK	CAP, CERMA, 22 uF, 10 V, +/- 20%, X7S, 0805	0805
74	C65	0	22uF	C30120S1A22M125AC	TK	CAP, CERMA, 22 uF, 10 V, +/- 20%, X7S, 0805	0805
75	C66	0	22uF	C30120S1A22M125AC	TK	CAP, CERMA, 22 uF, 10 V, +/- 20%, X7S, 0805	0805
76	C67	0	22uF	C30120S1A22M125AC	TK	CAP, CERMA, 22 uF, 10 V, +/- 20%, X7S, 0805	0805
77	C68, C69, C70	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
78	C69	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
79	C70	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
80	C71	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
81	C72	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
82	C73	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
83	C74	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
84	C75	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
85	C76	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
86	C77	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
87	C78	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
88	C79	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
89	C80	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
90	C81	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
91	C82	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
92	C83	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
93	C84	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
94	C85	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
95	C86	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
96	C87	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
97	C88	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
98	C89	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
99	C90	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
100	C91	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
101	C92	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
102	C93	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
103	C94	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
104	C95	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
105	C96	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
106	C97	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
107	C98	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
108	C99	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
109	C100	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
110	C101	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
111	C102	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
112	C103	0	0.1uF	GRM156R71A104KATD	Murata	CAP, CERMA, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402