

TIDA-01480 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package/Reference
1	PCB	1		TEDA-01480	Ally	Printed Circuit Board	
2	C1, C14, C16, C18	4	1 uF	GRM150R71A104K01D	Murata	CAP, CERAM, 0.1 uF, 10 V, +/-10%, X7R, 0402	0402
3	C2, C15, C17, C20, C24	5	2.2 uF	GRM150R71A225KE15D	Murata	CAP, CERAM, 2.2 uF, 10 V, +/-10%, X7R, 0805	0805
4	C4, C44, C45, C46, C16, C17, C20, C21, C28, C30	10	22 uF	CS0120V1A220M155AC	ISK	CAP, CERAM, 22 uF, 10 V, +/-10%, X7R, 0805	0805
5	C7, C14	2	1 uF	880G2700017	Wurth Elektronik	CAP, CERAM, 1 uF, 16 V, +/-20%, X6R, 0603	0603
6	R4, R12, R13, R20, C30, C34, C35, C36, C37, C72, C73, C83	13	20 k	C0205X7R0C20K250AC	ISK	CAP, CERAM, 22 uF, 10 V, +/-10%, X7R, 1210	1210
7	C25	1	1000 uF	GRM150R71H100M01D	Murata	CAP, CERAM, 1000 uF, 50 V, +/-10%, X7R, 0402	0402
8	C26	1	4.7 uF	880G2200025	Wurth Elektronik	CAP, CERAM, 4.7 uF, 10 V, +/-10%, X7R, 0603	0603
9	C31, C32, C33, C36, C73, C74	6	0.1 uF	C1005X7R1E104M050R5	ISK	CAP, CERAM, 0.1 uF, 25 V, +/-20%, X7R, 0402	0402
10	C38, C39, C40, C41, C75, C76, C77, C78, C80, C81	10	47 uF	GRM32ER1A47KE15L	Murata	CAP, CERAM, 47 uF, 10 V, +/-10%, X7R, 1210	1210
11	C50, C79	2	0.22 uF	GRM150R71A022K01D	Murata	CAP, CERAM, 47 uF, 25 V, +/-5%, COGNIPOL, 0402	0402
12	C43, C48	2	0.1 uF	C1005X7R1E104M050R5	ISK	CAP, CERAM, 4.7 uF, 10 V, +/-10%, X7R, 0603	0603
13	C81	2	0.001 uF	C1005X7R1H100M050R5	ISK	CAP, CERAM, 0.001 uF, 50 V, +/-10%, X7R, 0402	0402
14	C44	1	100 uF	C1005X7R1H100M050R5	ISK	CAP, CERAM, 100 uF, 25 V, +/-20%, X6R, 1008-10	1008-100
15	C48, C49, C87, C91, C92	5	10 uF	GRM150R71H010K01D	Murata	CAP, CERAM, 10 uF, 6.3 V, +/-10%, X7R, 0603	0603
16	C52	1	0.1 uF	GRM150R71H010K01D	Murata	CAP, CERAM, 4.7 uF, 6.3 V, +/-10%, X7R, 0603	0603
17	C53, C54, C55	3	0.001 uF	C1005X7R1H100M050R5	ISK	CAP, CERAM, 22 uF, 10 V, +/-10%, COGNIPOL, AEC-Q200 Grade 1, 0402	0402
18	C54	1	100 uF	GRM150R71H100M050R5	Murata	CAP, CERAM, 10 uF, 25 V, +/-5%, COGNIPOL, 0402	0402
19	C56	1	1000 uF	C1005X7R1H100M050R5	ISK	CAP, CERAM, 1000 uF, 50 V, +/-20%, X7R, 0402	0402
20	C59, C60, C70, C71, C72	4	0.001 uF	GRM150R71E104M050R5	Murata	CAP, CERAM, 910 pF, 25 V, +/-5%, COGNIPOL, 0402	0402
21	C103, C106, C107	3	0.01 uF	GRM155C1E011A01D	Murata	CAP, CERAM, 510 pF, 25 V, +/-5%, COGNIPOL, 0402	0402
22	C104, C108, C111, C112	4	0.01 uF	GRM155C1E011A01D	Murata	CAP, CERAM, 100 pF, 50 V, +/-5%, COGNIPOL, 0402	0402
23	C105, C109	4	0.01 uF	GRM155C1H100FA01D	Murata	CAP, CERAM, 100 pF, 50 V, +/-5%, COGNIPOL, 0402	0402
24	C27	1	200 W	LA3378BARA	Panasonic	LED, Cool White, SMD	200 W
25	R4	1	0.001 uF	C1005X7R1E104M050R5	Lite-On	LED, Blue, SMD	0.001 uF
26	R4, D1, D18, D19, D20	5	Green	1815CT1R00K0T	Lite-On	LED, Green, SMD	1.6 x 0.8 mm
27	R5	1	Orange	1815CT1R00K0T	Lite-On	LED, Orange, SMD	1.6 x 0.8 mm
28	R6	1	Yellow	1815CT1R00K0T	Lite-On	LED, Yellow, SMD	0.8 x 0.5 mm
29	R1, R9	2	Yellow	NY PMS 440 0025 PH	BEF Fluorescer Supply	Machine (Snow Round 44-40 x 1.4, Nylon, Philips purchased)	Green
30	R10, R16	2	100 uF	LA3378BARA	Philips	Machine, 740, 0.1 x 44-40 Nylon	Orange
31	R17	1	0.001 uF	C1005X7R1E104M050R5	CDI Inc.	Connector, DC, 2x3, 2.5 mm, Center Pin, 3x	2.53 x 0.54 mm
32	R1	1	177500	Phenix Contact	Samtec	Terminal Block, 100mm, 2x1, 8A, 80V, 101	2.53 x 0.54 mm
33	R1	1	177500	Phenix Contact	Samtec	Terminal Block, 100mm, 2x1, 8A, 80V, 101	2.53 x 0.54 mm
34	R7	1	0.001 uF	C1005X7R1E104M050R5	Samtec	Socket Assembly, 0.8mm, 40x2, Gold, SMT	0.8mm, 40x2, SMT
35	R1, L1, L3	3	2.2 uF	HPV2001FA100M050R5	ISK	Inductor, PMS, 2.2 uF, 24 V, 0.084 ohm, AEC-Q200 Grade 0, SMD	0.8mm
36	R8	1	0.001 uF	HPV2001FA100M050R5	PhyCom	Inductor, Shielded, 0.8mm, 40x2, Gold, SMT	0.8mm
37	R1	1	40 uF	HPV2001FA100M050R5	PhyCom	Inductor, Shielded, 0.8mm, 40x2, Gold, SMT	0.8mm
38	R9	1	0.001 uF	HPV2001FA100M050R5	PhyCom	Inductor, Shielded, 0.8mm, 40x2, Gold, SMT	0.8mm
39	C1, C4, C44, C45, C46, C72, C84, C93	4	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
40	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
41	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
42	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
43	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
44	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
45	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
46	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
47	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
48	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
49	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
50	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
51	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
52	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
53	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
54	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
55	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
56	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
57	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
58	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
59	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
60	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
61	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
62	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
63	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
64	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
65	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
66	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
67	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
68	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
69	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
70	R1	1	0.001 uF	LA3378BARA	Shades Inc.	MSOP-ET, 100mm, 2x1, 8A, 80V, 101	0.8mm
71	C3, C37, C37, C40, C44, C46, C48	5	2.2 uF	GRM150R71A225KE15D	Murata	CAP, CERAM, 2.2 uF, 10 V, +/-10%, X7R, 0805	0805
72	C10, C41, C42	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
73	C11, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
74	C38, C39, C43	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
75	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
76	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
77	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
78	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
79	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
80	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
81	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
82	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
83	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
84	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
85	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
86	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
87	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
88	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
89	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
90	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
91	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
92	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
93	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
94	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
95	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
96	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
97	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
98	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
99	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
100	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402
101	C39, C43, C49	0	0.1 uF	GRM150R71A010K01D	Murata	CAP, CERAM, 1 uF, 10 V, +/-10%, X7R, 0402	0402