

TIDA-010990 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	Package/Reference
1	FRB	1		TIDA-010990	Any	Printed Circuit Board	
2	IsolBattery modBat1-RTN, IsolBattery modBat2-RTN, GH2_sec_battery 2, HV_SW1_battery1 1, HV_SW1_battery2 1, HV_SW2_battery1 1, HV_SW2_battery2 1	16		ISLI2-0-15-15-34-27-10-0	M&M Max		Pin Receptacle
3	C1	1	0.1uF	CLJ10F104Z89R9NC	Samsung Electro-Mechanics	CAP. CERAM. 0.1 uF, 50 V, +80-20%, X5V, 0603	0603
4	C2, C3	2	100pF	PGPOB000LL100AL3RH	United Chem-Con	1000 pF 80 V Aluminum Electrolytic Capacitors Radial, Can 27mOhm @ 100kHz 2000 hrs @ 105°C	RADIAL
5	C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14	11	2.2uF	CGAL3X75A225K160AB	TEK	CAP. CERAM. 2.2 uF, 150 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1206	1206
6	C15, C16, C46, C63, C115	5	1uF	CL10B100K40V0JC	Samsung	Cap Ceramic 1uF 25V X7R 10% Pad SMD 0603 -125°C T/R	0603
7	C16, C17, C47, C54, C116	5	0.1uF	96030R104KAT2A	AVX	CAP. CERAM. 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
8	C17, C18, C38, C59	4	100nF	918E02E101	Panasonic	CAP. AL. 100 uF, 250 V, +/- 20%, 0.343708 ohm, TH	18481.5
9	C18, C20, C21, C22, C23, C24, C40, C41, C42, C53, C54, C55	12	0.1uF	GRM32X7E104K0W0L	MuRata	CAP. CERAM. 0.1 uF, 250 V, +/- 10%, X7R, 1210	1210
10	C25, C26, C27, C28, C29, C30, C31, C32, C33, C34	10	10uF	CGAL3XSRH100M160AB	TEK	CAP. CERAM. 10 uF, 50 V, +/- 20%, XSR, AEC-Q200 Grade 3, 1206	1206
11	C48, C49, C50, C51, C52, C56, C56, C57, C58, C59	10	2.2uF	C3012XSR1H25K125AB	TEK	CAP. CERAM. 2.2 uF, 50 V, +/- 10%, XSR, 0805	0805
12	C60, C61, C113	3	300uF	GRM188EC1H60J1A01D	MuRata	CAP. CERAM. 300 uF, 50 V, +/- 5%, COG/NP0, 0603	0603
13	C62, C63, C65, C67, C68, C64, C87, C90, C94, C95, C104, C105, C108	13	1uF	C806C100K3RACU10	Kemet	CAP. CERAM. 1 uF, 25 V, +/- 10%, X7R, 0805	0805
14	C64	1	100nF	9603C100KAT2A	AVX	CAP. CERAM. 100 nF, 10 V, +/- 10%, X7R, 0603	0603
15	C66, C68, C83, C96, C103, C105, C107	7	0.1uF	GRM188R71C100K0A1D	MuRata	CAP. CERAM. 0.1 uF, 15 V, +/- 10%, X7R, 0603	0603
16	C70	1	2.2uF	CGAL6L75C225K080AC	TEK	CAP. CERAM. 2.2 uF, 15 V, +/- 20%, X7S, AEC-Q200 Grade 1, 0603	0603
17	C71	1	0.5uF	C806C100K3RACU10	Kemet	CAP. CERAM. 0.5 uF, 25 V, +/- 10%, X7R, 0603	0603
18	C72, C110	2	0.1uF	GRM08B71A100K0A1D	MuRata	CAP. CERAM. 0.1 uF, 30 V, +/- 10%, X7R, 0603	0603
19	C73, C111	2	0.1uF	C2005R141A100K080A	TEK	CAP. CERAM. 0.1 uF, 15 V, +/- 10%, XSR, 0402	0402
20	C74, C112	2	0.1uF	CGAL6R75E104K050B8	TEK	CAP. CERAM. 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
21	C75, C79	2	100nF	CLJ10F104Z89R9NC	Samsung Electro-Mechanics	CAP. CERAM. 100 nF, 50 V, +/- 10%, X5V, 0603	0603
22	C76, C77, C78, C80, C81, C86, C100, C101, C102	9	0.1uF	GRM159R71E104K4E14D	MuRata	CAP. CERAM. 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
23	C82, C85	2	2200uF	GRM188EC1H22J1A01D	MuRata	CAP. CERAM. 2200 uF, 50 V, +/- 5%, COG/NP0, 0603	0603
24	C88, C89	2	47uF	GRM32B61C470K015L	MuRata	CAP. CERAM. 47 uF, 16 V, +/- 10%, XSR, 1210	1210
25	C91, C95, C109	3	2.2uF	C333A225K000000	Samsung Electro-Mechanics	CAP. CERAM. 2.2 uF, 15 V, +/- 10%, XSR, 0805	0805
26	C92, C93, C96, C97	4	47uF	C318J81E47M160AC	TEK	CAP. CERAM. 47 uF, 25 V, +/- 20%, 3L, 1206	1206
27	C114, C136	2	180uF	C160C001H411F090AA	TEK	CAP. CERAM. 180 uF, 10 V, +/- 5%, COG/NP0, 0603	0603
28	C117, C118, C127	3	4.7uF	GRM188R71C470K0A1D	MuRata	CAP. CERAM. 4.7 uF, 15 V, +/- 10%, X7R, 0603	0603
29	C119, C120, C121	3	0.1uF	9603C100KAT2A	AVX	CAP. CERAM. 0.1 uF, 15 V, +/- 10%, X7R, 0402	0402
30	C123, C130, C131	3	22uF	GRM188C3A22J01A01D	MuRata	CAP. CERAM. 22 uF, 10 V, +/- 5%, COG/NP0, 0603	0603
31	C124	1	22uF	EE-1HA20WNP	Panasonic	22 uF 50 V Aluminum Electrolytic Capacitors Radial, Can - SMD - 1000 H	RADIAL @ BICY
32	C125, C129, C134	3	0.1uF	C160B75D104K080AB	TEK	CAP. CERAM. 0.1 uF, 100 V, +/- 10%, X7S, 0603	0603
33	C135, C137, C138, C132, C133, C137, C136, C139	8	10uF	GRM32ERH100K412L	MuRata	CAP. CERAM. 10 uF, 50 V, +/- 10%, XSR, 1210	1210
34	C135	1	4700uF	C806C172K3RACU10	Kemet	CAP. CERAM. 4700 uF, 50 V, +/- 10%, X7R, 0805	0805
35	C140, C141, C144	3	0.1uF	C3012X7R1H104K080AA	TEK	CAP. CERAM. 0.1 uF, 50 V, +/- 10%, X7R, 0805	0805
36	C142, C143	2	22uF	C133A225K000000	Samsung Electro-Mechanics	CAP. CERAM. 22 uF, 15 V, +/- 10%, XSR, 0805	0805
37	C146	1	2.2uF	GRM188R71C225K11D	MuRata	CAP. CERAM. 2.2 uF, 50 V, +/- 10%, XSR, 0603	0603
38	C6, C9	2	100uF	ELU6E1E1	Grainex Inc.	Grainex Scholby 80 V, 1 A, SMD	SMD
39	C12, C11	2	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
40	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
41	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
42	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
43	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
44	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
45	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
46	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
47	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
48	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
49	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
50	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
51	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
52	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
53	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
54	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
55	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
56	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
57	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
58	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
59	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
60	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
61	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
62	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
63	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
64	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
65	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
66	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
67	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
68	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
69	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
70	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
71	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
72	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
73	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
74	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
75	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
76	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
77	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
78	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
79	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
80	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
81	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
82	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
83	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
84	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
85	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
86	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
87	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
88	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
89	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
90	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
91	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
92	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
93	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
94	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
95	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
96	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
97	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
98	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
99	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
100	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
101	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
102	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
103	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
104	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
105	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
106	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
107	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
108	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
109	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
110	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
111	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
112	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
113	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
114	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
115	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
116	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
117	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
118	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
119	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
120	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
121	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
122	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
123	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
124	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
125	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
126	C6	1	100uF	MA100C100-1	Grainex Inc.	Grainex Scholby 25 V, 1 A, SMD	SMD
127	C6	1	100uF	MA100C100-1	Grain		