TOSHIBA

2020-2-27 Rev.2.0

RD Number: RD103

RD Title: TB67S102AFNG Evaluation circuit BOM

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	C_VCC	1	0.1µF 100V	–	–	Chip capacitor		
2	C_VM2	1	0.1µF 100V	–	–	Chip capacitor		
3	C_VRFA	1	0.1µF 100V	–	–	Chip capacitor		
4	C_VRFB	1	0.1µF 100V	–	–	Chip capacitor		
5	C_VM1	1	100µF 50V	–	–	Electrolytic capacitor		
6	C_VDD	1	10µF 25V	–	–	Electrolytic capacitor		
7	C_OSCM	0	Socket pin	–	–	Socket pin		✓
8	C_OSCM1	0	270pF 25V	–	–	Lead capacitor		✓
9	C_OSCM2	1	270pF 1000V	–	–	Chip capacitor		
10	C_OAP	0	Not mount	–	–	Chip capacitor		✓
11	C_OAM	0	Not mount	–	–	Chip capacitor		✓
12	C_OBM	0	Not mount	–	–	Chip capacitor		✓
13	C_OBP	0	Not mount	–	–	Chip capacitor		✓
14	CON1	1	Connector 4P	–	–	Connector 4P-2.5		
15	CON2	0	Not mount	–	–	Connector		✓
16	CON3	0	Not mount	–	–	Connector		✓
17	CON4	0	Not mount	–	–	Connector		✓
18	OUT_A-	1	Check terminal	–	–	Logic pin		
19	OUT_A+	1	Check terminal	–	–	Logic pin		
20	OUT_B-	1	Check terminal	–	–	Logic pin		
21	OUT_B+	1	Check terminal	–	–	Logic pin		
22	RSA	1	Check terminal	–	–	Check terminal		
23	RSB	1	Check terminal	–	–	Check terminal		
24	VCC	1	Check terminal	–	–	Check terminal		
25	VDD	1	Check terminal	–	–	Check terminal		
26	VM	1	Check terminal	–	–	Logic pin		

27	45	0	Check terminal	–	–	Check terminal		✓
28	44	0	Check terminal	–	–	Check terminal		✓
29	VREFA	1	Check terminal	–	–	Check terminal		
30	VREFB	1	Check terminal	–	–	Logic pin		
31	OSCM	1	Check terminal	–	–	Check terminal		
32	3	1	Check terminal	–	–	Check terminal		
33	4	1	Check terminal	–	–	Check terminal		
34	5	1	Check terminal	–	–	Check terminal		
35	7	1	Check terminal	–	–	Check terminal		
36	8	1	Check terminal	–	–	Check terminal		
37	9	1	Check terminal	–	–	Check terminal		
38	10	1	Check terminal	–	–	Check terminal		
39	GND1	1	Check terminal	–	–	Logic pin		
40	GND2	1	Check terminal	–	–	Logic pin		
41	GND3	1	Check terminal	–	–	Logic pin		
42	GND4	1	Check terminal	–	–	Logic pin		
43	GND5	1	Check terminal	–	–	Logic pin		
44	GND6	0	Check terminal	–	–	Logic pin		✓
45	GND7	0	Check terminal	–	–	Logic pin		✓
46	JP_VRF1	1	Pin header 2P	–	–	Jumper		
47		1	Jumper socket	–	–	Jumper Short		
48	JP_VRF2	1	Pin header 2P	–	–	Jumper		
49		1	Jumper socket	–	–	Jumper Short		
50	JP_VCC	1	Pin header 2P	–	–	Jumper		
51		1	Jumper socket	–	–	Jumper Short		
52	R_ID	0	100kΩ 0.25W	–	–	Leaded capacitor		✓
53	R_MOUT	1	100kΩ 0.25W	–	–	Leaded capacitor		
54	R_LOUT	0	100kΩ 0.25W	–	–	Leaded capacitor		✓
55	R_LO1	0	100kΩ 0.25W	–	–	Leaded capacitor		✓
56	R_LO2	0	100kΩ 0.25W	–	–	Leaded capacitor		✓
57	R_OSCM	0	Socket pin	–	–	Socket pin		✓
58	R_OSCM1	0	5.1kΩ	–	–	Leaded capacitor		✓
59	R_OSCM2	1	5.1kΩ 0.25W	–	–	Surface-mount resistor		
60	R_VRF1	2	Socket pin	–	–	Socket pin		

61		0	Not mount	–	–	Leaded capacitor		✓
62	R_VRF2	2	Socket pin	–	–	Socket pin		
63		0	Not mount	–	–	Leaded capacitor		✓
64	R_RSA	1	0.22Ω,1W	–	–	Chip resistor		
65	R_RSB	1	0.22Ω,1W	–	–	Chip resistor		
66	R_SC1	0	0Ω	–	–	Chip resistor		✓
67	R_SC2	0	0Ω	–	–	Chip resistor		✓
68	SW8	0	Toggle switch	–	–	Toggle switch		✓
69		0	Pin header 3P	–	–	Jumper		✓
70		0	Jumper socket	–	–	Jumper Short		✓
71	SW9	0	Toggle switch	–	–	Toggle switch		✓
72		1	Pin header 3P	–	–	Jumper		
73		1	Jumper socket	–	–	Jumper Short		
74	SW10	0	Toggle switch	–	–	Toggle switch		✓
75		1	Pin header 3P	–	–	Jumper		
76		1	Jumper socket	–	–	Jumper Short		
77	SW45	0	Toggle switch	–	–	Toggle switch		✓
78		0	Pin header 3P	–	–	Jumper		✓
79		0	Jumper socket	–	–	Jumper Short		✓
80	SW48	0	Toggle switch	–	–	Toggle switch		✓
81		0	Pin header 3P	–	–	Jumper		✓
82		0	Jumper socket	–	–	Jumper Short		✓
83	SW3	0	Toggle switch	–	–	Toggle switch		✓
84		1	Pin header 3P	–	–	Jumper		
85		1	Jumper socket	–	–	Jumper Short		
86	SW4	0	Toggle switch	–	–	Toggle switch		✓
87		0	Pin header 3P	–	–	Jumper		✓
88		0	Jumper socket	–	–	Jumper Short		✓
89	SW5	0	Toggle switch	–	–	Toggle switch		✓
90		1	Pin header 3P	–	–	Jumper		
91		1	Jumper socket	–	–	Jumper Short		
92	SW7	0	Toggle switch	–	–	Toggle switch		✓
93		1	Pin header 3P	–	–	Jumper		
94		1	Jumper socket	–	–	Jumper Short		

95	IC1	1	TB67S102AFNG	TB67S102AFNG	TOSHIBA	Motor driver IC	HTSSOP48	

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