

RD Number: RD056

RD Title: TB67S109AFNG Evaluation circuit

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	IC1	1		TB67S109AFNG	TOSHIBA			
2	C_VCC	1	0.1μF,25V	Chip capacitor			3.2mm×1.6mm	
3	C_VM2	1	0.1μF,25V	Chip capacitor			3.2mm×1.6mm	
4	C_VRFA	1	0.1μF,25V	Chip capacitor			3.2mm×1.6mm	
5	C_VRFB	1	0.1μF,25V	Chip capacitor			3.2mm×1.6mm	
6	C_VM1	1	100μF,50V	Electrolytic capacitor				
7	C_VDD	0	10μF,25V	Electrolytic capacitor				✓
8	C_OSCM	0		PD-10	Mac-Eight	Socket pin		✓
9	C_OSCM1	0	270pF,25V	Chip capacitor			3.2mm×1.6mm	✓
10	C_OSCM2	1	270pF,25V	Chip capacitor			3.2mm×1.6mm	
11	C_OAP	0	-	-				✓
12	C_OAM	0	-	-				✓
13	C_OBM	0	-	-				✓
14	C_OBP	0	-	-				✓
15	CON1	1		DF1BZ-4P-2.5DSA	HIROSE ELECTRIC	CONN HEADER VERT 4POS		
16	CON2	0		DF1BZ-4P-2.5DSA	HIROSE ELECTRIC	CONN HEADER VERT 4POS		✓
17	CON3	0		DF1BZ-4P-2.5DSA	HIROSE ELECTRIC	CONN HEADER VERT 4POS		✓
18	CON4	0		DF1BZ-4P-2.5DSA	HIROSE ELECTRIC	CONN HEADER VERT 4POS		✓
19	OUT_A-	1		ST-1-3	Mac-Eight	Check terminal for logic		
20	OUT_A+	1		ST-1-3	Mac-Eight	Check terminal for logic		
21	OUT_B-	1		ST-1-3	Mac-Eight	Check terminal for logic		
22	OUT_B+	1		ST-1-3	Mac-Eight	Check terminal for logic		
23	RSA	0		LC-22-G	Mac-Eight	Check terminal for oscilloscope		✓
24	RSB	0		LC-22-G	Mac-Eight	Check terminal for oscilloscope		✓
25	VCC	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
26	VDD	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		

27	VM	1		ST-1-3	Mac-Eight	Check terminal for logic		
28	45	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
29	44	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
30	VREFA	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
31	VREFB	1		ST-1-3	Mac-Eight	Check terminal for logic		
32	OSCM	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
33	3	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
34	4	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
35	5	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
36	7	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
37	8	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
38	9	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
39	10	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
40	GND1	1		ST-1-3	Mac-Eight	Check terminal for logic		
41	GND2	1		ST-1-3	Mac-Eight	Check terminal for logic		
42	GND3	1		ST-1-3	Mac-Eight	Check terminal for logic		
43	GND4	1		ST-1-3	Mac-Eight	Check terminal for logic		
44	GND5	1		ST-1-3	Mac-Eight	Check terminal for logic		
45	GND6	1		ST-1-3	Mac-Eight	Check terminal for logic		
46	GND7	1		ST-1-3	Mac-Eight	Check terminal for logic		
47	JP_VRF1	1		XJ8B-0211	OMRON	Single row plugs		
48		1		M7567-05	Harwin Inc.	Position Shunt Connector		
49	JP_VRF2	1		XJ8B-0211	OMRON	Single row plugs		
50		1		M7567-05	Harwin Inc.	Position Shunt Connector		
51	JP_VCC	1		XJ8B-0211	OMRON	Single row plugs		
52		1		M7567-05	Harwin Inc.	Position Shunt Connector		
53	R_ID	0	100k Ω ,1/4W	Leaded resistor			2.54mm pitch	✓
54	R_MOUT	1	100k Ω ,1/4W	Leaded resistor			2.54mm pitch	
55	R_LOUT	1	100k Ω ,1/4W	Leaded resistor			2.54mm pitch	
56	R_OSCM	0		PD-10	Mac-Eight	Socket pin		✓
57	R_OSCM1	0	3.6k Ω	Leaded resistor			2.54mm pitch	✓
58	R_OSCM2	1	3.6k Ω	Chip resistor			3.2mm \times 1.6mm	
59	R_VRF1	0	-	PD-10	Mac-Eight	Socket pin		✓
60		0	-	-				✓

61	R_VRF2	0	-	PD-10	Mac-Eight	Socket pin		✓
62		0	-	-				✓
63	R_RSA	1	0.22Ω,1W	Chip resistor			3.2mm×1.6mm	
64	R_RSB	1	0.22Ω,1W	Chip resistor			3.2mm×1.6mm	
65	R_SC1	0	0Ω	Chip resistor			3.2mm×1.6mm	✓
66	R_SC2	0	0Ω	Chip resistor			3.2mm×1.6mm	✓
67	SW8	0	-	-				✓
68	SW8	0		XJ8B-0311	OMRON	Single row plugs		✓
69		0		M7567-05	Harwin Inc.	Position Shunt Connector		✓
70	SW9	0	-	-				✓
71	SW9	1		XJ8B-0311	OMRON	Single row plugs		
72		1		M7567-05	Harwin Inc.	Position Shunt Connector		
73	SW10	0	-	-				✓
74	SW10	1		XJ8B-0311	OMRON	Single row plugs		
75		1		M7567-05	Harwin Inc.	Position Shunt Connector		
76	SW45	0	-	-				✓
77	SW45	1		XJ8B-0311	OMRON	Single row plugs		
78		1		M7567-05	Harwin Inc.	Position Shunt Connector		
79	SW48	0	-	-				✓
80	SW48	0		XJ8B-0311	OMRON	Single row plugs		✓
81		0		M7567-05	Harwin Inc.	Position Shunt Connector		✓
82	SW3	0	-	-				✓
83	SW3	1		XJ8B-0311	OMRON	Single row plugs		
84		1		M7567-05	Harwin Inc.	Position Shunt Connector		
85	SW4	0	-	-				✓
86	SW4	0		XJ8B-0311	OMRON	Single row plugs		✓
87		0		M7567-05	Harwin Inc.	Position Shunt Connector		✓
88	SW5	0	-	-				✓
89	SW5	1		XJ8B-0311	OMRON	Single row plugs		
90		1		M7567-05	Harwin Inc.	Position Shunt Connector		
91	SW7	0	-	-				✓
92	SW7	1		XJ8B-0311	OMRON	Single row plugs		
93		1		M7567-05	Harwin Inc.	Position Shunt Connector		
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