

RD RD081

RD Title: TB6642FG Evaluation circuit

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	IC1	1		TB6642FG	TOSHIBA			
2	OUT1	0		ST-1-3	Mac-Eight	Check terminal for logic		✓
3	R1	0		Leaded resistor				✓
4	C3	1		Leaded capacitor				
5	CON	1		DF1BZ-4P-2.5DSA	Hirose Elec	CONN HEADER VERT 4POS		
6	RSGND	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
7	R2	1	0Ω	chip resistor			5.0mm×2.5mm	
8	OUT2	1		ST-1-3	Mac-Eight	Check terminal for logic		
9	VM	1		ST-1-3	Mac-Eight	Check terminal for logic		
10	C1	1	100μF,50V	Electrolytic capacitor				
11	C2	0	0.1μF,25V	Chip capacitor			3.2mmX1.6mm	✓
12	VISD/VREG	0		LC-22-G	Mac-Eight	Check terminal for oscilloscope		✓
13	R4/C5	1	10kΩ, 1/4W	chip resistor			3.2mmX1.6mm	
14	R4/C5	0	10kΩ, 1/4W	Leaded resistor				✓
15	R4/C5	0	0.1μF, 25V	Chip capacitor			3.2mmX1.6mm	✓
16	R4/C5	0	0.1μF, 25V	Leaded capacitor				✓
17	JP_VREG	0		XJ8B-0211	OMRON	Single row plugs		✓
18	JP_VREG	0		M7567-05	Harwin Inc.	Position Shunt Connector		✓
19	TISD	0		LC-22-G	Mac-Eight	Check terminal for oscilloscope		✓
20	R3	1	5kΩ, 1/4W	chip resistor			3.2mmX1.6mm	
21	R3	1	5kΩ, 1/4W	Leaded resistor				
22	PWM	0		LC-22-G	Mac-Eight	Check terminal for oscilloscope		✓
23	SW_PWM	1		ATE1E-2J3-10	Nidec Copal Elec.	SPDT Toggle Switch		
24	SW_PWM	1		XJ8B-0311	OMRON	Single row plugs		
25	SW_PWM	0		M7567-05	Harwin Inc.	Position Shunt Connector		✓
26	VREF	1		ST-1-3	Mac-Eight	Check terminal for logic		

27	JP_VREF	1		XJ8B-0211	OMRON	Single row plugs		
28	JP_VREF	0		M7567-05	Harwin Inc.	Position Shunt Connector		✓
29	R6	0	-	chip resistor			3.2mmX1.6mm	✓
30	R6	0	-	Leaded resistor				✓
31	R7	0	-	chip resistor			3.2mmX1.6mm	✓
32	R7	1	-	Leaded resistor				
33	ALERT	1		LC-22-G	Mac-Eight	Check terminal for oscilloscope		
34	R5	0	100kΩ, 1/4W	Leaded resistor				✓
35	C4/R8(OSC)	1	-	Chip capacitor			3.2mmX1.6mm	
36	C4/R8(OSC)	1	0Ω	chip resistor			3.2mmX1.6mm	
37	IN1	0		LC-22-G	Mac-Eight	Check terminal for oscilloscope		✓
38	SW_IN1	1		ATE1E-2J3-10	Nidec Copal Elec.	SPDT Toggle Switch		
39	SW_IN1	1		XJ8B-0211	OMRON	Single row plugs		
40	SW_IN1	5		M7567-05	Harwin Inc.	Position Shunt Connector		
41	GND(SGND)	1		ST-1-3	Mac-Eight	Check terminal for logic		
42	IN2	0		LC-22-G	Mac-Eight	Check terminal for oscilloscope		✓
43	SW_IN2	1		ATE1E-2J3-10	Nidec Copal Elec.	SPDT Toggle Switch		
44	SW_IN2	1		XJ8B-0211	OMRON	Single row plugs		
45	SW_IN2	1		M7567-05	Harwin Inc.	Position Shunt Connector		
46	VDD	0		ST-1-3	Mac-Eight	Check terminal for logic		✓
47	C6	1	10μF,25V	Electrolytic capacitor				
48	C7	1	0.1μF,25V	Chip capacitor			3.2mmX1.6mm	
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