

RD Number: RD082

RD Title: TB6642FTG Evaluation circuit BOM

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	IC1	1	TB6642FTG	TB6642FTG	TOSHIBA	Motor driver IC	QFN32	
2	OUT1	1	Check terminal	—	—	Check terminal for logic		
3	R1	0	Not mount	—	—	Leaded resistor		✓
4	C3	0	Not mount	—	—	Leaded capacitor		✓
5	CON	1	Connector	—	—	CONN HEADER VERT 2POS		
6	RSGND	1	Check terminal	—	—	Check terminal for oscilloscope		
7	R2	1	0Ω	—	—	Chip resistor	5.0mm×2.5mm	
8	OUT2	1	Check terminal	—	—	Check terminal for logic		
9	VM	1	Check terminal	—	—	Check terminal for logic		
10	C1	1	100μF 50V	—	—	Electrolytic capacitor		
11	C2	1	0.1μF 50V	—	—	Chip capacitor	3.2mm×1.6mm	
12	VISD/VREG	0	Check terminal	—	—	Check terminal for oscilloscope		✓
13	R4/C5	0	10kΩ 0.25W	—	—	Chip resistor	3.2mm×1.6mm	✓
14	R4/C5	1	10kΩ 0.25W	—	—	Leaded resistor		
15	R4/C5	0	0.1μF 25V	—	—	Chip capacitor	3.2mm×1.6mm	✓
16	R4/C5	0	0.1μF 25V	—	—	Leaded capacitor		✓
17	JP_VREG	0	Pin header 2P	—	—	Single row plugs		✓
18	JP_VREG	0	Jump socket	—	—	Position Shunt Connector		✓
19	TISD	0	Check terminal	—	—	Check terminal for oscilloscope		✓
20	R3	0	5kΩ 0.25W	—	—	Chip resistor	3.2mm×1.6mm	✓
21	R3	1	5kΩ 0.25W	—	—	Leaded resistor		
22	PWM	1	Check terminal	—	—	Check terminal for oscilloscope		
23	SW_PWM	0	Toggle Switch	—	—	SPDT Toggle Switch		✓
24	SW_PWM	1	Pin header 3P	—	—	Single row plugs		
25	SW_PWM	1	Jump socket	—	—	Position Shunt Connector		

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