

RD Number: RD182

RD Title: TC78B009FTG Evaluation Circuit BOM

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	R1A	1	0.1Ω 1W	—	—	Resistor		
2	R1B	1	0.1Ω 1W	—	—	Resistor		
3	R2	1	Lead jumper	—	—	Short with 5mm pitch jumper wire		
4	R3	1	Lead jumper	—	—	Short with 5mm pitch jumper wire		
5	R4	1	10kΩ 0.1W	—	—	Chip resistor		
6	R5	1	10kΩ 0.1W	—	—	Chip resistor		
7	R6	1	10kΩ 0.1W	—	—	Chip resistor		
8	R7	1	10kΩ 0.1W	—	—	Chip resistor		
9	R8	1	10kΩ 0.1W	—	—	Chip resistor		
10	R9	1	10kΩ 0.1W	—	—	Chip resistor		
11	R10	1	10kΩ 0.1W	—	—	Chip resistor		
12	R11	1	10kΩ 0.1W	—	—	Chip resistor		
13	R12	1	100kΩ 0.1W	—	—	Chip resistor		
14	R13	1	24kΩ 0.1W	—	—	Chip resistor		
15	VR1	0	Not mount	—	—	Variable resistor		✓
16	C1	1	100μF 50V	—	—	Electrolytic capacitor		
17	C2	1	0.1μF 50V	—	—	Chip capacitor		
18	C3	1	0.01μF 50V	—	—	Chip capacitor		
19	C4	1	0.1μF 50V	—	—	Chip capacitor		
20	C5	1	0.1μF 50V	—	—	Chip capacitor		
21	C6	1	0.1μF 50V	—	—	Chip capacitor		
22	C7	1	0.1μF 50V	—	—	Chip capacitor		
23	C8	0	Not mount	—	—	Chip capacitor		✓
24	C9	0	Not mount	—	—	Chip capacitor		✓
25	C10	1	0.01μF 50V	—	—	Chip capacitor		
26	LED1	1	LED Green	—	—	Chip LED Green		
27	LED2	1	LED Green	—	—	Chip LED Green		
28	LED3	1	LED Yellow	—	—	Chip LED Yellow		
29	LED4	1	LED Red	—	—	Chip LED Red		
30	LED5	1	LED Green	—	—	Chip LED Green		
31	LED6	1	LED Pink	—	—	Chip LED Pink		
32	LED7	1	LED Orange	—	—	Chip LED Orange		
33	LED8	1	LED Green	—	—	Chip LED Green		

34	IC1	1	TC78B009FTG	TC78B009FTG	TOSHIBA	Pre-driver for brushless motor	QFN36	
35	P1	1	Slit land	—	—	Short slit land with solder		
36	P2	1	Slit land	—	—	Open		
37	P3	1	Slit land	—	—	Open		
38	P4	1	Slit land	—	—	Open		
39	P5	1	Slit land	—	—	Open		
40	J1	1	Pin header 2P	—	—	Open 2.54mm pitch		
41	J2	1	Pin header 2P	—	—	Open 2.54mm pitch		
42	J3	1	Pin header 2P	—	—	Open 2.54mm pitch		
43	J4	1	Pin header 2P	—	—	Open 2.54mm pitch		
44	J5	1	Pin header 3P	—	—	Pin header 3pin 2.54mm pitch		
45	J5A	1	Jump Socket	—	—	Shrot pins		
46	J6	1	Pin header 3P	—	—	Pin header 3pin 2.54mm pitch		
47	J6A	1	Jump Socket	—	—	Shrot pins		
48	J7	1	Pin header 3P	—	—	Pin header 3pin 2.54mm pitch		
49	J7A	1	Jump Socket	—	—	Shrot pins		
50	J8	1	Pin header 3P	—	—	Pin header 3pin 2.54mm pitch		
51	J8A	1	Jump Socket	—	—	Shrot pins		
52	J9	1	Pin header 3P	—	—	Pin header 3pin 2.54mm pitch		
53	J9A	1	Jump Socket	—	—	Shrot pins		
54	J10	1	Pin header 3P	—	—	Pin header 3pin 2.54mm pitch		
55	J10A	1	Jump Socket	—	—	Shrot pins		
56	J11	1	Pin header 3P	—	—	Pin header 3pin 2.54mm pitch		
57	J11A	1	Jump Socket	—	—	Shrot pins		
58	CON1	1	16P Long Pin Socket	—	—	Pin Socket 16pin		
59	CON2	1	Terminal Block Contact	—	—	PCB terminal block 2 positions		
60	CON3	1	Terminal Block Contact	—	—	PCB terminal block 3 positions		
61	VM	1	Check terminal	—	—	Check terminal Red		
62	GND1	1	Check terminal	—	—	Check terminal Black		
63	VREG	1	Check terminal	—	—	Check terminal Red		
64	SEL	0	Not mount	—	—	Check terminal		✓
65	CWCCW	0	Not mount	—	—	Check terminal		✓
66	BRAKE	0	Not mount	—	—	Check terminal		✓
67	STBY	0	Not mount	—	—	Check terminal		✓
68	GND2	1	Check terminal	—	—	Check terminal Black		
69	SPD	1	Check terminal	—	—	Check terminal White		
70	VDD	1	Check terminal	—	—	Check terminal Red		
71	SCL	1	Check terminal	—	—	Check terminal White		
72	SDA	1	Check terminal	—	—	Check terminal White		
73	ID1	0	Not mount	—	—	Check terminal		✓
74	ID2	0	Not mount	—	—	Check terminal		✓
75	FG	1	Check terminal	—	—	Check terminal White		

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