TOSHIBA

RD Number: RD183
RD Title: TC78B027FTG Evaluation Circuit BOM

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	RVM	1	24kΩ	–	–	Chip resistor		
2	RFG	1	5.1kΩ	–	–	Chip resistor		
3	RAL	1	5.1kΩ	–	–	Chip resistor		
4	RVREG	1	5.1kΩ	–	–	Chip resistor		
5	RHALL	1	1kΩ	–	–	Chip resistor		
6	RHM1	0	Not mount	–	–			✓
7	RHM2	0	Not mount	–	–			✓
8	RSPD	1	51kΩ	–	–	Chip resistor		
9	ROC1	1	0.1Ω 1W	–	–	Resistor		
10	ROC2	1	0.1Ω 1W	–	–	Resistor		
11	CVM1	1	47μF	–	–	Capacitor		
12	CVM2	1	0.1μF	–	–	Chip capacitor		
13	CVCP	1	0.1μF	–	–	Chip capacitor		
14	CCP	1	0.01μF	–	–	Chip capacitor		
15	CVREG	1	0.1μF	–	–	Chip capacitor		
16	CHALL	0	Not mount	–	–			✓
17	LED1	1	LED	–	–	Red		
18	LED2	1	LED	–	–	Yellow		
19	LED3	1	LED	–	–	Green		
20	LED4	1	LED	–	–	Red		
21	J1	1	Pin header 3P	–	–			
22	J1A	1	Jump Socket	–	–			
23	SW1	1	DIP switch	–	–	DIP switch 4 circuits		
24	IC1	1	TC78B027FTG	TC78B027FTG	TOSHIBA	Pre-driver for brushless DC motors	QFN24	
25	CON1	1	16P Long Pin Socket	–	–	Pin Socket		
26	CON2	1	Terminal Block Contact	–	–	PCB terminal block 2 positions		
27	CON3	1	Terminal Block Contact	–	–	PCB terminal block 3 positions		
28	CON4	1	Terminal Block Contact	–	–	PCB terminal block 4 positions		
29	GND2	1	Check terminal	–	–	Black		
30	VM	1	Check terminal	–	–	Red		
31	VCP	0	Not mount	–	–			✓
32	CPP	0	Not mount	–	–			✓
33	CPM	0	Not mount	–	–			✓

34	GND1	0	Not mount	−	−			✓
35	VREG	0	Not mount	−	−			✓
36	VPU	0	Not mount	−	−			✓
37	DIR	0	Not mount	−	−			✓
38	BRAKE	0	Not mount	−	−			✓
39	SPD	1	Check terminal	−	−	White		
40	GND4	1	Check terminal	−	−	Black		
41	FG	1	Check terminal	−	−	White		
42	ALERT	1	Check terminal	−	−	White		
43	VHALL	1	Check terminal	−	−	White		
44	HP	1	Check terminal	−	−	White		
45	HM	1	Check terminal	−	−	White		
46	GND3	1	Check terminal	−	−	Black		
47	OUT_UM	1	Check terminal	−	−	White		
48	OUT_VM	1	Check terminal	−	−	White		
49	OUT_WM	1	Check terminal	−	−	White		
50	GLU	0	Not mount	−	−			✓
51	GHU	0	Not mount	−	−			✓
52	GLV	0	Not mount	−	−			✓
53	GHV	0	Not mount	−	−			✓
54	GLW	0	Not mount	−	−			✓
55	GHW	0	Not mount	−	−			✓
56	W1	1	Jumper	−	−	Jumper wire for GND		
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