

RD Number: RD054

RD Title: TB67H420FTG Evaluation circuit BOM

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	CVM1	1	100μF 50V	—	—	Electrolytic capacitor		
2	CVM2	1	0.1μF 50V	—	—	Chip capacitor	3.2mm×1.6mm	
3	CVCC	1	0.1μF	—	—	Chip capacitor	3.2mm×1.6mm	
4	CVFA	1	0.1μF	—	—	Chip capacitor	3.2mm×1.6mm	
5	CVFB	1	0.1μF	—	—	Chip capacitor	3.2mm×1.6mm	
6	C13	0	1000pF	—	—	Chip capacitor	3.2mm×1.6mm	✓
7	C17	0	1000pF	—	—	Chip capacitor	3.2mm×1.6mm	✓
8	C19	0	1000pF	—	—	Chip capacitor	3.2mm×1.6mm	✓
9	C23	0	1000pF	—	—	Chip capacitor	3.2mm×1.6mm	✓
10	COSCM	1	270pF	—	—	Chip capacitor	3.2mm×1.6mm	
11	ROSCM	1	5.1kΩ	—	—	Chip resistor	3.2mm×1.6mm	
12	RMO	0	10kΩ	—	—	Chip resistor	3.2mm×1.6mm	✓
13	RLO1	1	10kΩ	—	—	Chip resistor	3.2mm×1.6mm	
14	RLO2	1	10kΩ	—	—	Chip resistor	3.2mm×1.6mm	
15	RVF1	1	20kΩ 0.125W	—	—	Leaded resistor		
16	RVF2	1	10kΩ 0.125W	—	—	Leaded resistor		
17	RVF3	1	10kΩ 0.125W	—	—	Leaded resistor		
18	RVF1	2	Socket pin	—	—	Socket pin		
19	RVF2	2	Socket pin	—	—	Socket pin		
20	RVF3	2	Socket pin	—	—	Socket pin		
21	RLTH	0	100kΩ	—	—	Chip resistor	3.2mm×1.6mm	✓
22	RCLIM11	0	100kΩ	—	—	Chip resistor	3.2mm×1.6mm	✓
23	RCLIM12	0	100kΩ	—	—	Chip resistor	3.2mm×1.6mm	✓
24	RFLIM1	0	100kΩ	—	—	Chip resistor	3.2mm×1.6mm	✓
25	RFLIM2	0	100kΩ	—	—	Chip resistor	3.2mm×1.6mm	✓

26	RBOOST1	0	100kΩ	—	—	Chip resistor	3.2mm×1.6mm	✓
27	RBOOST2	0	100kΩ	—	—	Chip resistor	3.2mm×1.6mm	✓
28	CNSRI	0	Connector	—	—	Connector 3P 2.5		✓
29	CNSRO	0	Connector	—	—	Connector 3P 2.5		✓
30	CNMT	1	Connector	—	—	Connector 4P 2.5		
31	SW_39	1	Toggle Switch	—	—	Toggle Switch		
32	SW_40	1	Toggle Switch	—	—	Toggle Switch		
33	SW_41	1	Toggle Switch	—	—	Toggle Switch		
34	SW_42	1	Toggle Switch	—	—	Toggle Switch		
35	SW_43	1	Toggle Switch	—	—	Toggle Switch		
36	SW_44	1	Toggle Switch	—	—	Toggle Switch		
37	SW_45	0	Toggle Switch	—	—	Toggle Switch		✓
38	SW_AGC0	1	Toggle Switch	—	—	Toggle Switch		
39	SW_AGC1	1	Toggle Switch	—	—	Toggle Switch		
40	SW_CLIM0	0	Toggle Switch	—	—	Toggle Switch		✓
41	SW_CLIM1	0	Rotary Switch	—	—	Rotary Switch		✓
42	SW_FLIM	0	Rotary Switch	—	—	Rotary Switch		✓
43	SW_BOOST	0	Rotary Switch	—	—	Rotary Switch		✓
44	DO	0	Check terminal	—	—	Check pin		✓
45	CO	0	Check terminal	—	—	Check pin		✓
46	LO	0	Check terminal	—	—	Check pin		✓
47	VREFA	1	Check terminal	—	—	Check pin		
48	VREFB	1	Check terminal	—	—	Check pin		
49	SVF	1	Check terminal	—	—	Check pin		
50	39	1	Check terminal	—	—	Check pin		
51	40	1	Check terminal	—	—	Check pin		
52	41	1	Check terminal	—	—	Check pin		
53	42	1	Check terminal	—	—	Check pin		
54	43	1	Check terminal	—	—	Check pin		
55	44	1	Check terminal	—	—	Check pin		
56	45	0	Check terminal	—	—	Check pin		✓
57	46	0	Check terminal	—	—	Check pin		✓
58	47	1	Check terminal	—	—	Check pin		

59	48	1	Check terminal	—	—	Check pin		
60	LI	0	Check terminal	—	—	Check pin		✓
61	CI	0	Check terminal	—	—	Check pin		✓
62	DI	0	Check terminal	—	—	Check pin		✓
63	AGC0	1	Check terminal	—	—	Check pin		
64	AGC1	1	Check terminal	—	—	Check pin		
65	CLIM0	0	Check terminal	—	—	Check pin		✓
66	CLIM1	0	Check terminal	—	—	Check pin		✓
67	FLIM	0	Check terminal	—	—	Check pin		✓
68	BOOST	0	Check terminal	—	—	Check pin		✓
69	VDD	1	Check terminal	—	—	Check pin		
70	VM	1	Check terminal	—	—	Check pin		
71	GND1	1	Check terminal	—	—	Check pin		
72	GND2	1	Check terminal	—	—	Check pin		
73	GND3	1	Check terminal	—	—	Check pin		
74	GND4	1	Check terminal	—	—	Check pin		
75	GND5	1	Check terminal	—	—	Check pin		
76	GND6	1	Check terminal	—	—	Check pin		
77	GND7	1	Check terminal	—	—	Check pin		
78	GND8	1	Check terminal	—	—	Check pin		
79	GND9	1	Check terminal	—	—	Check pin		
80	GND10	1	Check terminal	—	—	Check pin		
81	GND11	1	Check terminal	—	—	Check pin		
82	TVF	1	RN1401	RN1401	TOSHIBA	Bias Resistor Built-in Transistor	SOT-346 (S-Mini)	
83	JP1	1	Pin header 2P	—	—	Pin header 2P		
84	(JP1)	1	Jump socket	—	—	Jump socket		
85	JP2	1	Pin header 2P	—	—	Pin header 2P		
86	(JP2)	1	Jump socket	—	—	Jump socket		
87	IC1	1	TB67H420FTG	TB67H420FTG	TOSHIBA	Motor driver IC	QFN48	

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