

RD Number: RD144

RD Title: TC78H600FNG Evaluation circuit BOM

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	C_OSC	1	220pF 100V	—	—	Chip capacitor		
2	C_VCC1	1	10μF 16V	—	—	Electrolytic capacitor		
3	C_VCC2	1	0.1μF 100V	—	—	Chip capacitor		
4	C_VM1	1	47μF 50V	—	—	Electrolytic capacitor		
5	C_VM2	1	0.1μF 100V	—	—	Ceramic capacitor		
6	C_VREF	1	0.1μF 100V	—	—	Chip capacitor		
7	C_AO1	0	1000pF	—	—	Chip capacitor		✓
8	C_AO2	0	1000pF	—	—	Chip capacitor		✓
9	C_BO1	0	1000pF	—	—	Chip capacitor		✓
10	C_BO2	0	1000pF	—	—	Chip capacitor		✓
11	C_TQ	0	0.1μF 100V	—	—	Chip capacitor		✓
12	C_ENABLE	0	0.1μF 100V	—	—	Chip capacitor		✓
13	C_CK	0	0.1μF 100V	—	—	Chip capacitor		✓
14	C_M1	0	0.1μF 100V	—	—	Chip capacitor		✓
15	C_M2	0	0.1μF 100V	—	—	Chip capacitor		✓
16	C_CW/CCW	0	0.1μF 100V	—	—	Chip capacitor		✓
17	R_RFA	1	0.51Ω 0.5W	—	—	Chip resistor		
18	R_RFB	1	0.51Ω 0.5W	—	—	Chip resistor		
19	R_ALERT	1	100kΩ 0.25W	—	—	Chip resistor		
20	CON1	0	Connector 4P	—	—	Connector 4P-2.5		✓
21	CON2	1	Connector 2P	—	—	Connector 2P-2.5		
22	CON3	1	Connector 2P	—	—	Connector 2P-2.5		
23	VM	1	Check terminal	—	—	Check pin		
24	VCC	1	Check terminal	—	—	Check pin		
25	VREF	2	Check terminal	—	—	Check pin		
26	SELECT	1	Check terminal	—	—	Check pin		

27	/ALERT	1	Check terminal	-	-	Check pin		
28	PWMA	1	Check terminal	-	-	Check pin		
29	IN2A	1	Check terminal	-	-	Check pin		
30	IN1A	1	Check terminal	-	-	Check pin		
31	/STBY	1	Check terminal	-	-	Check pin		
32	IN2B	1	Check terminal	-	-	Check pin		
33	IN1B	1	Check terminal	-	-	Check pin		
34	PWMB	1	Check terminal	-	-	Check pin		
35	OSC	1	Check terminal	-	-	Check pin		
36	AO1	1	Check terminal	-	-	Check pin		
37	AO2	1	Check terminal	-	-	Check pin		
38	BO1	1	Check terminal	-	-	Check pin		
39	BO2	1	Check terminal	-	-	Check pin		
40	RSGNDA	0	Check terminal	-	-	Check pin		✓
41	RSGNDB	0	Check terminal	-	-	Check pin		✓
42	GND	1	Check terminal	-	-	Check pin		
43	GND1	1	Check terminal	-	-	Check pin		
44	GND2	1	Check terminal	-	-	Check pin		
45	GND3	1	Check terminal	-	-	Check pin		
46	GND4	1	Check terminal	-	-	Check pin		
47	GND5	1	Check terminal	-	-	Check pin		
48	SW14(SELECT)	1	Pin header 3P	-	-	Jumper		
49		1	Jumper socket	-	-	Short pin		
50	SW17(PWMA)	1	Pin header 3P	-	-	Jumper		
51		1	Jumper socket	-	-	Short pin		
52	SW19(IN2A)	1	Pin header 3P	-	-	Jumper		
53		1	Jumper socket	-	-	Short pin		
54	SW20(IN1A)	1	Pin header 3P	-	-	Jumper		
55		1	Jumper socket	-	-	Short pin		
56	SW2(/STBY)	1	Pin header 3P	-	-	Jumper		
57		1	Jumper socket	-	-	Short pin		
58	SW4(IN2B)	1	Pin header 3P	-	-	Jumper		
59		1	Jumper socket	-	-	Short pin		
60	SW5(IN1B)	1	Pin header 3P	-	-	Jumper		

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