RD Number: RD142

RD Title: TC78H600FTG 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_VM 1	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_CLK	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_MO	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	1	Check terminal	–	–	Check pin		
26	/RESET	1	Check terminal	–	–	Check pin		

27	/MO	1	Check terminal	–	–	Check pin		
28	TQ	1	Check terminal	–	–	Check pin		
29	ENABLE	1	Check terminal	–	–	Check pin		
30	CLK	1	Check terminal	–	–	Check pin		
31	/STBY	1	Check terminal	–	–	Check pin		
32	M1	1	Check terminal	–	–	Check pin		
33	M2	1	Check terminal	–	–	Check pin		
34	CW/CCW	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	RFA	0	Check terminal	–	–	Check pin		✓
41	RFB	0	Check terminal	–	–	Check pin		✓
42	GND1	1	Check terminal	–	–	Check pin		
43	GND2	1	Check terminal	–	–	Check pin		
44	GND3	1	Check terminal	–	–	Check pin		
45	GND4	1	Check terminal	–	–	Check pin		
46	GND5	1	Check terminal	–	–	Check pin		
47	GND6	1	Check terminal	–	–	Check pin		
48	GND	1	Check terminal	–	–	Check pin		
49	SW1(/RESET)	1	Pin header 3P	–	–	Jumper		
50		1	Jumper socket	–	–	Short pin		
51	SW2(TQ)	1	Pin header 3P	–	–	Jumper		
52		1	Jumper socket	–	–	Short pin		
53	SW3(ENABLE)	1	Pin header 3P	–	–	Jumper		
54		1	Jumper socket	–	–	Short pin		
55	SW4(CLK)	1	Pin header 3P	–	–	Jumper		
56		1	Jumper socket	–	–	Short pin		
57	SW5(/STBY)	1	Pin header 3P	–	–	Jumper		
58		1	Jumper socket	–	–	Short pin		
59	SW6(M1)	1	Pin header 3P	–	–	Jumper		
60		1	Jumper socket	–	–	Short pin		

61	SW7(M2)	1	Pin header 3P	–	–	Jumper		
62		1	Jumper socket	–	–	Short pin		
63	SW8(CW/CCW)	1	Pin header 3P	–	–	Jumper		
64		1	Jumper socket	–	–	Short pin		
65		1	Pin header 2P	–	–	Jumper		
66		1	Jumper socket	–	–	Short pin		
67	IC	1	TC78H600FTG	TC78H600FTG	TOSHIBA	Motor driver IC	QFN24	

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