

RD Number: RD050

RD Title: TC78B016FTG Evaluation circuit BOM

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	IC1	1	TC78B016FTG	TC78B016FTG	TOSHIBA	Motor driver IC	QFN36	
2	R1	1	27k $\Omega$	—	—	Chip resistor		
3	R3	1	10k $\Omega$	—	—	Leaded resistor		
4	R4	1	10k $\Omega$	—	—	Leaded resistor		
5	R5	0	Not mount	—	—	Chip/Leaded resistor		✓
6	R6	0	Not mount	—	—	Chip/Leaded resistor		✓
7	R9	0	Not mount	—	—	Chip/Leaded resistor		✓
8	R10	0	Not mount	—	—	Chip/Leaded resistor		✓
9	R17	0	Not mount	—	—	Chip/Leaded resistor		✓
10	R18	0	Not mount	—	—	Chip/Leaded resistor		✓
11	R21	0	Not mount	—	—	Chip/Leaded resistor		✓
12	R22	0	Not mount	—	—	Chip/Leaded resistor		✓
13	R23	0	Not mount	—	—	Chip/Leaded resistor		✓
14	R24	0	Not mount	—	—	Chip/Leaded resistor		✓
15	R25	0	Not mount	—	—	Chip/Leaded resistor		✓
16	R26	0	Not mount	—	—	Chip/Leaded resistor		✓
17	R27	0	Not mount	—	—	Chip/Leaded resistor		✓
18	R28	0	Not mount	—	—	Chip/Leaded resistor		✓
19	R29	0	Not mount	—	—	Chip/Leaded resistor		✓
20	R30	0	Not mount	—	—	Chip/Leaded resistor		✓
21	R31	0	Not mount	—	—	Chip/Leaded resistor		✓
22	R32	0	Not mount	—	—	Chip/Leaded resistor		✓
23	R33	1	0.1 $\Omega$	—	—	Leaded resistor		
24	R36	0	Not mount	—	—	Chip/Leaded resistor		✓
25	R37	0	Not mount	—	—	Chip/Leaded resistor		✓

26	R38	0	Not mount	—	—	Chip/Leaded resistor		✓
27	R39	0	Not mount	—	—	Chip/Leaded resistor		✓
28	C1	1	360pF 50V	—	—	Chip capacitor		
29	C2	1	0.1μF 50V	—	—	Chip capacitor		
30	C3	1	0.01μF 50V	—	—	Capacitor		
31	C4	1	0.01μF 50V	—	—	Chip capacitor		
32	C5	1	0.01μF 50V	—	—	Chip capacitor		
33	C6	1	0.01μF 50V	—	—	Chip capacitor		
34	C7	1	0.1μF 50V	—	—	Chip capacitor		
35	C8	1	10μF 50V	—	—	Electrolytic capacitor		
36	C10	0	Not mount	—	—	Capacitor		✓
37	C11	0	Not mount	—	—	Capacitor		✓
38	C15	0	Not mount	—	—	Capacitor		✓
39	C17	0	Not mount	—	—	Capacitor		✓
40	C18	0	Not mount	—	—	Capacitor		✓
41	C19	0	Not mount	—	—	Capacitor		✓
42	C20	0	Not mount	—	—	Capacitor		✓
43	C21	0	Not mount	—	—	Capacitor		✓
44	C22	0	Not mount	—	—	Capacitor		✓
45	C23	0	Not mount	—	—	Capacitor		✓
46	C24	0	Not mount	—	—	Capacitor		✓
47	C25	0	Not mount	—	—	Capacitor		✓
48	C26	0	Not mount	—	—	Capacitor		✓
49	JP1	1	Pin header 2P	—	—	Single row plugs		
50		1	Jump socket	—	—	Position Shunt Connector		
51	JP2	1	Pin header 2P	—	—	Single row plugs		
52		1	Jump socket	—	—	Position Shunt Connector		
53	JP3	1	Pin header 6P	—	—	Dual row plugs		
54		0	Jump socket	—	—	Position Shunt Connector		✓
55	JP4	1	Pin header 6P	—	—	Dual row plugs		
56		0	Jump socket	—	—	Position Shunt Connector		✓
57	JP5	1	Pin header 2P	—	—	Single row plugs		

58		0	Jump socket	—	—	Position Shunt Connector		✓
59	JP6	1	Pin header 2P	—	—	Single row plugs		
60		0	Jump socket	—	—	Position Shunt Connector		✓
61	JP7	1	Pin header 2P	—	—	Single row plugs		
62		0	Jump socket	—	—	Position Shunt Connector		✓
63	JP8	1	Pin header 2P	—	—	Single row plugs		
64		1	Jump socket	—	—	Position Shunt Connector		
65	JP9	1	Pin header 2P	—	—	Single row plugs		
66		0	Jump socket	—	—	Position Shunt Connector		✓
67	JP10	1	Pin header 2P	—	—	Single row plugs		
68		0	Jump socket	—	—	Position Shunt Connector		✓
69	JP11	1	Pin header 2P	—	—	Single row plugs		
70		0	Jump socket	—	—	Position Shunt Connector		✓
71	JP12	1	Pin header 2P	—	—	Single row plugs		
72		1	Jump socket	—	—	Position Shunt Connector		
73	JP13	1	Pin header 2P	—	—	Single row plugs		
74		1	Jump socket	—	—	Position Shunt Connector		
75	JP14	1	Pin header 2P	—	—	Single row plugs		
76		0	Jump socket	—	—	Position Shunt Connector		✓
77	JP15	1	Pin header 2P	—	—	Single row plugs		
78		0	Jump socket	—	—	Position Shunt Connector		✓
79	JP16	1	Pin header 2P	—	—	Single row plugs		
80		0	Jump socket	—	—	Position Shunt Connector		✓
81	JP19	1	Pin header 2P	—	—	Single row plugs		
82		1	Jump socket	—	—	Position Shunt Connector		
83	SW1	1	Toggle switch	—	—	Toggle switch		
84	SW2	1	Toggle switch	—	—	Toggle switch		
85	SW3	1	Pin header 3P	—	—	Single row plugs		
86		1	Jump socket	—	—	Position Shunt Connector		
87	SW4	1	Pin header 3P	—	—	Single row plugs		
88		1	Jump socket	—	—	Position Shunt Connector		
89	SW5	1	Pin header 3P	—	—	Single row plugs		

90		1	Jump socket	—	—	Position Shunt Connector		
91	VR2	1	50k $\Omega$	—	—	Variable resisitor		
92	VR3	1	50k $\Omega$	—	—	Variable resisitor		
93	VR4	1	50k $\Omega$	—	—	Variable resisitor		

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