



RD Number: RD197

RD Title: TB67S128FTG Evaluation Circuit BOM

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package	Not Mount
1	IC1	1	TB67S128FTG	TB67S128FTG	TOSHIBA	Motor driver IC	VQFN64	
2	IC2	1	TMPM067FWQG	TMPM067FWQG	TOSHIBA	Microcontroller	QFN48	
3	C1	1	22nF	—	—	Chip capacitor		
4	C2	1	220nF	—	—	Chip capacitor		
5	C3	1	270pF	—	—	Chip capacitor		
6	C4	1	100nF	—	—	Chip capacitor		
7	C5	1	1000nF	—	—	Chip capacitor		
8	C6	1	100nF	—	—	Chip capacitor		
9	C7	1	100nF	—	—	Chip capacitor		
10	C8	0	100nF (Not mount)	—	—	Chip capacitor		✓
11	C9	0	100nF (Not mount)	—	—	Chip capacitor		✓
12	C10	1	1μF	—	—	Chip capacitor		
13	C11	1	10pF	—	—	Chip capacitor		
14	C12	1	10pF	—	—	Chip capacitor		
15	C13	1	1μF	—	—	Chip capacitor		
16	C14	1	100nF	—	—	Chip capacitor		
17	C15	1	100nF	—	—	Chip capacitor		
18	C16	1	100nF	—	—	Chip capacitor		
19	C17	0	22μF	—	—	Chip capacitor		✓
20	C18	1	100nF	—	—	Chip capacitor		
21	C19	1	100nF	—	—	Chip capacitor		
22	C29	1	100μF/50V	—	—	Electrolytic Capacitor (SMT)		
23	D2	1	Diode	—	—	DIODE SCHOTTKY 60V 3A SMB		
24	J1	1	Terminal Block	—	—	SCREW-TERMINAL-4P		
25	J2	1	Header	—	—	HEADER-2P-1.27		
26	J3	1	Connector	—	—	GROVE-CONNECTOR-SMD		
27	J4	1	Header	—	—	HEADER-2X3P-1.27		
28	J5	1	Header	—	—	HEADER-2X3P-1.27		
29	J6	0	Connector	—	—	TAG-CONNECT 10-Pin		✓
30	J7	1	Header	—	—	HEADER-2X3P-1.27		
31	J8	1	Terminal Block	—	—	SCREW-TERMINAL-2P		
32	Q4	1	MOSFET 2N7002	—	—	MOSFET N-CH		
33	Q5	1	MOSFET 2N7002	—	—	MOSFET N-CH		

34	R1	1	0Ω	—	—	Chip resistor		
35	R2	1	0Ω	—	—	Chip resistor		
36	R3	1	5.1kΩ	—	—	Chip resistor		
37	R4	1	15kΩ	—	—	Chip resistor		
38	R5	1	10kΩ	—	—	Chip resistor		
39	R6	1	100kΩ	—	—	Chip resistor		
40	R7	1	10kΩ	—	—	Chip resistor		
41	R8	1	10kΩ	—	—	Chip resistor		
42	R9	1	10kΩ	—	—	Chip resistor		
43	R10	1	10kΩ	—	—	Chip resistor		
44	R11	1	100kΩ	—	—	Chip resistor		
45	R12	1	10kΩ	—	—	Chip resistor		
46	R13	1	100kΩ	—	—	Chip resistor		
47	R14	1	100kΩ	—	—	Chip resistor		
48	R15	1	4.7kΩ	—	—	Chip resistor		
49	R16	1	4.7kΩ	—	—	Chip resistor		
50	R24	1	4.7kΩ	—	—	Chip resistor		
51	R25	1	4.7kΩ	—	—	Chip resistor		
52	SW1	1	DIPSWITCH_2PIN	—	—	DIP Switch - 2 Pin		
53	U1	1	TCR3DF30	TCR3DF30	TOSHIBA	PMIC-TCR3DF	SOT-25	
54	X1	1	12MHz crystal	—	—	CRYSTAL-4P		
55	SLC	0	Check terminal	—	—	TEST-POINT		✓
56	SDA	0	Check terminal	—	—	TEST-POINT		✓
57	GRO_VCC	0	Check terminal	—	—	TEST-POINT		✓
58	GND	0	Check terminal	—	—	TEST-POINT		✓
59	VDD	0	Check terminal	—	—	TEST-POINT		✓
60	TX	0	Check terminal	—	—	TEST-POINT		✓
61	RX	0	Check terminal	—	—	TEST-POINT		✓

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