

## Ceiling FAN Inverter Board with RX13T BOM List

Ver.	Content	Board Name	Schematic No	DATE
1.00	First edition	Ceiling FAN Inverter Board with RX13T(APINUV003-RX13T-CEILING)	R12TU0153EJ	2021/9/9

  

No.	Name of articles	Model	Part number	Manufacture	QTY FOR 1 MODULE
1	DIODE GEN PURP 75V 150MA SOD523	1N4148X-TP	D8,D9,D10,D11,D12,D13,D14,D15,D16,D17,D18,D19,D20	Micro	13
2	CAP ALUM 100UF 20% 450V RADIAL	450QXW100MEFR16X35	C1	Rubycon	1
3	FUSE BRD MNT 3.15A 300VAC RADIAL	36913150000	F1	Littelfuse Inc.	1
4	Diode Array 1 Pair Common Cathode Standard 100V 175mA (DC) Surface Mount SC-70	BAV70W.115	D6,D7	NXP	2
5	CAP CER 10UF 16V X5R 0603	GRT188R61C106KE13D	C26	Murata	1
6	CAP CER 4.7UF 16V X5R 0603	GRM188R61C475KAAJD	C14	Murata	1
7	CAP CER 0.47UF 25V 10% X7R 0603	CL10B474KA8NFNC	C22,C65	Samsung	2
8	CAP CER C1608 50V 5%	GRM1882C1H101J	C36,C44,C48,C53,C57	MURATA	5
9	CAP CER C1608 50V 5%	GRM1882C1H102J	C15,C18,C19,C23,C25,C29,C30,C31,C33,C35,C38,C39,C40,C43,C56	MURATA	15
10	CAP CER C1608 50V 10%	GRM188B31H104K	C11,C16,C17,C21,C24,C27,C28,C34,C45,C51,C59,C62,C69	MURATA	13
11	CAP CER 1UF 50V X5R 0603	GRT188R61H105KE13D	C20,C67	MURATA	2
12	CAP CER C1608 50V 5%	GRM1882C1H222J	C42,C46,C55,C58,C60,C61,C64	MURATA	7
13	CAP CER NC	*****	C9,C10,C12,C13,C32,C37,C47,C49	*****	8
14	CAP CER 10UF 35V X5R 1206	GMK316BJ106KL-T	C41,C52,C54,C68	Taiyo Yuden	4
15	CAP CER 0.1UF 500V X7T 1210	CGJ6L4X7T2H104K160AA	C50,C63,C66,C70	TDK Corporation	4
16	CAP CER 1000PF 250V RAD	DE2E3SA102MN3AT02F	C4,C6,C7	Murata Electronics	3
17	CAP ALUM 100UF 20% 35V RADIAL	ECA-1VHG101B	C2	Panasonic	1
18	CAP FILM 0.47UF 10% 450VDC RAD	ECQ-E2W474KH	C3	Panasonic	1
19	DIODE GEN PURP 600V 1A SMA	ES1J	D21,D22	ON Semiconductor	2
20	IC GATE DRIVER HALF BRIDG 20SOIC	FAN7388MX	U6	ON Semiconductor	1
21	Nch Single Power Mosfet 600V 5A 1600Mohm To-220Fpa	RJK6006DPP-A0	Q1	Renesas	1
22	DIODE GEN PURP 600V 8A TO220F	FFPF08S60SNTU	D1	ON Semiconductor	1
23	IC DRVR MOSFET DUAL-CH 8-SOIC	ISL89410IBZ	U7	Renesas	1
24	ジャンパ線(2.54mm)	JR-1	JP3,JP55	MAC8	2
25	ジャンパ線(5.08mm)	JR-2	JP4,JP5,JP6,JP7,JP8,JP16,JP18,JP19,JP26,JP27,JP28,JP32,JP34,JP47,JP49,JP53,JP54,JP57,JP58,JP59,JP65,JP66,JP68	MAC8	23
26	ジャンパ線(7.62mm)	JR-3	JP12,JP17,JP21,JP22,JP23,JP24,JP25,JP29,JP31,JP51,JP52,JP60,JP61,JP63,JP64	MAC8	15
27	ジャンパ線(10.16mm)	JR-4	JP1,JP10,JP11,JP20,JP36,JP44,JP48,JP50,JP56	MAC8	9
28	ジャンパ線(12.7mm)	JR-5	JP14,JP33,JP35	MAC8	3
29	ジャンパ線(15.24mm)	JR-6	JP2,JP13,JP45,JP46,JP62	MAC8	5
30	ジャンパ線(17.78mm)	JR-7	JP15	MAC8	1
31	ジャンパ線(20.32mm)	JR-8	JP37,JP38,JP39,JP40,JP41,JP42,JP43	MAC8	7
32	ジャンパ線(22.86mm)	JR-9	JP9	MAC8	1
33	IC REGULATOR POS 5V SOT-89	L78L05ABUTR	U8	STMicroelectronics	1
34	TEST POINT PC MINI 0.8D BLACK	LC-33-G BLACK	TPG1,TPG2,TPG3,TPG4,TPG5,TPG6,TPG7,TPG8	MAC8	8
35	TEST POINT PC MINI 0.8D RED	LC-33-G RED	TP2,TP4,TP10,TP11	MAC8	4
36	IC OFFLINE SWIT OCP 8DIP	LNK304PN	U1	Power Integrations	1
37	FIXED IND 4.7MH 70MA 27.3 OHM	LQH666SN472M03L	L3	Murata	1
38	CONN HEADER VERT 6POS 2.54MM	M20-9990645	CN1	Harwin	1
39	ICL 8 OHM 20% 3A 13MM	MF72-008D11	R11	Cantherm	1
40	VARIATOR 510V 1.2KA DISC 7MM	MOV-07D511K	ZNR1	Bourns Inc.	1
41	DIODE GEN PURP 600V 1A AXIAL	MUR160G	D3,D4	ON Semiconductor	2
42	DIODE GEN PURP 600V 1A AXIAL	MUR160G	D5	ON Semiconductor	1
43	IGBT 600V 10A TO220F3	NGTB10N60FG	Q2,Q3,Q4,Q5,Q6,Q7	ON Semiconductor	6
44	CAP FILM 0.1UF 560VDC RADIAL	R46KF310000P1M	C5,C8	Kemet	2
45	RES SMD R1608 0/1A	RK73Z1JTTD	R3,R7,R10,R11,R15,R16,R18,R20,R29,R80,R103	KOA	11
46	RES SMD R1608 0.1W 1%	RK73H1JTTD4R70F	R33	KOA	1
47	RES SMD R1608 0.1W 1%	RK73H1JTTD10R0F	R34,R39,R45,R53,R57,R60,R85	KOA	7
48	RES SMD R1608 0.1W 1%	RK73H1JTTD47R0F	R65,R71,R87,R93,R96,R98,R100	KOA	7
49	RES SMD R1608 0.1W 1%	RK73H1JTTD1000F	R50,R59,R61,R82,R89	KOA	5
50	RES SMD R1608 0.1W 1%	RK73H1JTTD1001F	R6,R8,R12,R17,R21,R27,R35,R38,R67	KOA	9
51	RES SMD R1608 0.1W 1%	RK73H1JTTD1002F	R13,R14,R19,R26,R28,R51,R63,R66,R72,R76,R86,R88,R92,R95,R99,R101	KOA	16
52	RES SMD R1608 0.1W 1%	RK73H1JTTD1003F	R62	KOA	1
53	RES SMD R1608 0.1W 1%	RK73H1JTTD1801F	R75,R79,R90	KOA	3
54	RES SMD R1608 0.1W 1%	RK73H1JTTD2000F	R68,R84,R91	KOA	3
55	RES SMD R1608 0.1W 1%	RK73H1JTTD2001F	R77,R78	KOA	2
56	RES SMD R1608 0.1W 1%	RK73H1JTTD2002F	R40,R41,R73,R74	KOA	4
57	RES SMD R1608 0.1W 1%	RK73H1JTTD2202F	R105	KOA	1
58	RES SMD R1608 0.1W 1%	RK73H1JTTD2701F	R110	KOA	1
59	RES SMD R1608 0.1W 1%	RK73H1JTTD3301F	R104,R108	KOA	2
60	RES SMD R1608 0.1W 1%	RK73H1JTTD4700F	R9	KOA	1
61	RES SMD R1608 0.1W 1%	RK73H1JTTD4701F	R25	KOA	1
62	RES SMD R1608 0.1W 1%	RK73H1JTTD4702F	R64	KOA	1
63	RES SMD R1608 0.1W 1%	RK73H1JTTD5101F	R1,R2,R4,R5	KOA	4
64	RES NC	*****	R70,R81,R97	*****	3
65	RES SMD R2125 2A	RK73Z2ATTD	R106,R107	KOA	2
66	RES 0.27 OHM 1% 1/2W 0805	ERJ-6DQFR27V	R69,R83,R94,R102	Panasonic	4
67	RES 510K OHM 0.125W 1% 0805 SMD	ERJ-6ENF5103V	R22,R23,R24,R30,R31,R32,R36,R37,R42,R43,R44,R52	Panasonic - ECG	12
68	RES SMD 750K OHM 1% 1/8W 0805	RC0805FR-07750KL	R46,R47,R48,R49,R54,R55,R56,R58	Yageo	8
69	RES SMD R3216 0/2A	RK73Z2BTDD	JP30,JP67	KOA	2
70	RES 150K OHM 0.25W 5% 1206 SMD	ERJ-8GEYJ154V	R109,R111,R112	Panasonic	3
71	MSIG CMOS DUAL OPAMP HI-SPEED TS	READ2302GSP#GC3	U2,U4,U5	Renesas	3
72	CMC 3MH 1A 2LN TH	RN102-1-02-3M0	LF1	Schaffner	1
73	IC MCU 32BIT 128KB FLASH 48LQFP	R5F513T5ADFL	U3	Renesas	1
74	Toroidal coil	TCV-402K-1.5A-8026	L1	DTL	1
75	TH FAI1.7mm	***	TP3,TP5,TP6,TP7,TP8,TP9	***	6
76	Test Land	***	TP1	***	1
77	BRIDGE RECT 1PHASE 600V 3A D3K	UG3KB60GTB	D2	SMC Diode Solutions	1