

RTK0EM0000B10020BJ BOM LIST

Board Name : Inverter board (RTK0EM0000B10020BJ)

Schematic No : R12TU0072

Date : 2021/8/23

No.	Reference	Description *1	Manufacturer	PartNumber	Qty
1	CNB,CNA	CONN HEADER 2.54MM 20POS GOLD	Sullins Connector Solutions	SBH11-PBPC-D10-ST-BK	2
2	CN1	5.08MM TOP ENTRY MSC 3P_GY	Phoenix Contact	1729131	1
3	CN2	TERM BLOCK HDR 5POS 90DEG 5.08MM	Phoenix Contact	1757271	1
4	CN3	CONN HEADER XH TOP 4POS 2.5MM	JST	B4B-XH-A	1
5	CNF	CONN HEADER .100 SNGL STR 4POS	Sullins Connector Solutions	PREC004SAAN-RC	1
6	C1,C2	Chip capacitor(1005)	MURATA	GCM155R72A332JA37D	2
7	C3,C4	Capacitor	Nippon chemi-con	EKZN800ELL681ML25S	2
8	C5,C26	Chip capacitor(2012)	MURATA	GCM21BC72A105KE36L	2
9	C7,C10,C18,C22,C24,C41, C44,C47,C54,C56,C60	Chip capacitor(0603)	MURATA	GRM033R61A104KE15D	11
10	C8,C20,C43,C49	Chip capacitor(1608)	MURATA	GCJ188R72A104KA01D	4
11	C9	Chip capacitor(3216)	MURATA	GCM32DC72A475KE02L	1
12	C11	Chip capacitor(0603)	MURATA	GRM033R71E102KA01D	1
13	C23,C46,C55,C42	Chip capacitor(2012)	MURATA	GRM21BR61E106MA73L	4
14	C38,C59,C61	Chip capacitor(1005)	MURATA	GRM155C81E105KE11D	3
15	C27	Chip capacitor	PANASONIC	EEE-FK1K470P	1
16	C28,C31	Chip capacitor(0603)	MURATA	GRM033R71E103KE14D	2
17	C34	Chip capacitor(0603)	MURATA	GRM033R71E471KA01D	1
18	C37	Chip capacitor	Panasonic	EEE-1VA101XP	1

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19	C40	Chip capacitor(2012)	MURATA	GCM219R71H334KA55D	1
20	C102,C103,C104	Chip capacitor(1608)	MURATA	GRM1885C1H101JA01J	3
21	D1	DIODE_Dual_Series	ON Semiconductor	VF20100C-M3/4W	1
22	D2,D9,D16,D22,D24	DIODE_Dual_Series	toshiba	1SS302A,LF	5
23	D8,D10,D15,D18,D20,D21,D11, D13,D14	DIODE	Rohm	RF05VAM1STR	9
24	D12	DIODE	Rohm	RB160MM-60TR	1
25	D23,D25	DIODE	toshiba	1SS387,L3F	2
26	F1	Fuse	Bourns	SF-2410FP1000W-2	1
27	HS1	Heatsink	ABL Components	PPD0380P	1
28	J1	DC jack	Kycon	KLDX-SMT2-0202-ATR	1
29	LED1,LED2,LED3	LED	Rohm	SML-D12D8WT86	3
30	LED4	LED	Rohm	SML-D12P8WT86	1
31	L1	Inductor	TDK	SLF12555T-681MR43-PF	1
32	Q3,Q4,Q5,Q6,Q7,Q8	Nch MOSFET	Renesas	RJK1054DPB-00#J5	6
33	R1,R27,R67,R102,R61,R96,R110	Chip resistor(6432)	Panasonic	ERJ-M1WSF10MU	7
34	R2,R32,R34,R44,R69,R72,R81, R92,R101,R105,R159,R162,R9	Chip resistor(1608)	KOA	RK73H1JTDD1002F	13
35	R4,R40,R77,R108,R160,R163	Chip resistor(1608)	KOA	RK73H1JTDD4700F	6
36	R5	Chip resistor(1608)	KOA	RK73H1JTDD3302F	1
37	R6,R28,R64,R112,R113,R114	Chip resistor(1608)	KOA	RK73H1JTDD4701F	6
38	R14	Chip resistor(1608)	KOA	RK73H1JTDD2202F	1
39	R25	Chip resistor(2012)	KOA	RK73Z2ATTD	1
40	R26,R41,R66,R74,R88,R98,R164, R165	Chip resistor(1608)	KOA	RK73B1JTDD101J	8

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No.	Reference	Description *1	Manufacturer	PartNumber	Qty
41	R35,R39,R45,R54,R75,R76,R86, R106,R107,R118,R120,R123, R125,R126,R127,R129,R130, R131,R132,R133,R134,R136,R137, R138,R139,R128,R135	Chip resistor(0603)	KOA	RK73Z1HTTC	29
42	R33,R43,R68,R79,R91,R100,R60	Chip resistor(1608)	KOA	RK73Z1JTDD	7
43	R38,R73,R95	Chip resistor(1608)	KOA	RK73B1JTDD4R7J	3
44	R55	Chip resistor(1608)	KOA	RK73B1JTDD474J	1
45	R56	Chip resistor(1608)	KOA	RK73H1JTDD4702F	1
46	R57	Chip resistor(1608)	KOA	RK73B1JTDD102J	1
47	R58	Chip resistor(1608,1/4W)	KOA	RK73B1JTDD1R0J	1
48	R63	Chip resistor(1608)	KOA	RK73H1JTDD2402F	1
49	R65	Chip resistor(1608)	KOA	RK73H1JTDD2701F	1
50	R161	Chip resistor(1608)	KOA	RK73B1JTDD202J	1
51	R53,R62,R90,R97,R109,R111,R197	Chip resistor(1608)	KOA	RK73Z1JTDD	7
52	SW2	switch	Panasonic	EVQ-5PN04K	1
53	SW1	Toggle switch	Nidec Copal	ATE1D-2M3-10-Z	1
54	U1	Current detection amp	Maxim Integrated	MAX4080TAUA+	1
55	U2	Comparator	STMicroelectronics	TS332IQ2T	1
56	U5,U9,U11	Current detection amp	Analog Devices	AD8418ABRMZ	3
57	U6	Gate driver	Renesas	HIP4086ABZT	1
58	U7	Switching regulator	Texas Instruments	LM5017MRX	1
59	U8	5V regulator	STMicroelectronics	L78M05CDT-TR	1
60	VR1	Potentiometer	Tokyo Cosmos Electric	GF063P1KB103	1
61	C25,C29,C32,C33,C39	Chip capacitor(1608)	murata	GCM188R71E105KA64D	5

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No.	Reference	Description *1	Manufacturer	PartNumber	Qty
62	R198,R199,R200	Chip resistor(1005)	KOA	RK73H1ETTP1000F	3
63	C105,C106,C107	Chip capacitor(1005)	Taiyo Yuden	UMK105B7102KVHF	3

**Unmounted**

64	CNE	CN_PinHeader-50pin	-	-	-
65	C6	Chip capacitor(1608,80V)	-	-	-
66	C14,C16,C35,C36,C52,C53,C57, C58,C84,C85,C86,C87	Chip capacitor	-	-	-
67	C15,C19,C45,C48,C21,C50	Chip capacitor(25V)	-	-	-
68	R10,R11,C12,C13,C17,R29,C30, R46,R47,R48,R49,R51,C51,R59, R87,C88,C89,C90,C91,C92,C93, C94,C95,C96,C97,C98,C99,R193, R194,R195,R196	Chip capacitor/Chip resistor(1608)	-	-	-
69	D3,D4,D5,D7,D17,D19	DIODE	-	-	-
70	D6	DIODE_Dual_Series	-	-	-
71	Q1,Q2	Nch MOSFET	-	-	-
72	R3,R7,R13,R15,R20,R21,R36,R37, R52,R89,R93,R94	Chip resistor(1608)	-	-	-
73	R8,R12,R22,R190,R191,R192	Chip resistor	-	-	-

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74	R16,R17,R18,R19,R30,R31,R70, R71,R78,R80,R82,R83,R103,R104, R115,R116,R117,R119,R121,R122, R124,R144,R147,R148,R151,R152, R154,R155,R156,R157,R158,R23, R24,R84,R85,R140,R141,R142, R143,R145,R146,R149,R150,R153	Chip resistor(0603)	-	-	-
75	R42,R99	Chip resistor(6432)	-	-	-
76	R50	Chip resistor(1W)	-	-	-
77	U3	Current detection amp	-	-	-
78	U4,U10	Gate driver	-	-	-
79	U15	3.3V regulator	-	-	-

\*1 Chip size unit : mm