

Board : RTK0EM0000B18030BJ (Part number)

Date : 2025/7/11

No.	Reference	Description	Manufacturer	PartNumber	Qty
1	C1,C2	Capacitor	MurataElectronics	DE2E3SA472MN3AX02F	2
2	C10,C27,C30,C46,C73,C111	Capacitor	TDK	C1608X7R1C105K080AC	6
3	C11,C15,C25,C29,C32,C41,C42,C43,C44,C45,C65,C66,C68,C69,C70,C71,C72,C81,C82,C86,C91,C92,C93,C94,C95,C96,C99,C105,C108,C124	Capacitor	MurataElectronics	GRT155R71H104KE01D	30
4	C112,C113,C114,C115,C116,C117	Capacitor	Walsin	1206B221K501CT	6
5	C53	Capacitor	Panasonic	ECW-FE2W225K	1
6	C12	Capacitor	-	ECW-FE2W225K	0
7	C13	Capacitor	Rubycon	25TPV220M6.3X8	1
8	C17,C37,C52,C77	Capacitor	Panasonic	EEE-FK1E470P	4
9	C19,C22,C24	Capacitor	UnitedChemi-Con	ESMQ451VSN561MR50S	3
10	C23,C40,C103	Capacitor	TDK	C1005X5R1E223K050BA	3
11	C35,C50	Capacitor	TDK	CGA2B2C0G1H4R7C050BA	2
12	C36,C51	Capacitor	Yageo	CC1206MKX5R8BB226	2
13	C4	Capacitor	KEMET	R46KI347000N0M	1
14	C47,C60,C61,C62,C63,C126	Capacitor	MurataElectronics	GRT31MC81H105KE01L	6
15	C57,C58,C59	Capacitor	-	-	0
16	C7,C8,C16,C18,C21,C38,C39,C49,C54,C55,C56,C64,C67,C106,C107,C109,C125	Capacitor	Samsung	CL32A106KBJNNNE	17
17	C74,C75,C76,C78,C79,C80	Capacitor	TDK	CGA2B3X7R1H473K050BB	6
18	C83,C84,C85,C110	Capacitor	MurataElectronics	GCM155L81H472KA37D	4
19	C102	Capacitor	-	-	0
20	C9,C14,C48	Capacitor	TDK	C1005C0G1H470J050BA	3
21	C90,C97,C98,C100,C101,C104,C133,C134	Capacitor	TDK	C1005X7R1H471K050BA	8
22	C127,C128,C129,C130,C131,C132	Capacitor	TDK	C1005X7R1H102K050BA	6
23	C118	Capacitor	Yageo	CC0402KRX7R9BB681	1
24	C87,C88,C89,C119	Capacitor	Yageo	CC0402KRX7R9BB222	4
25	C121	Capacitor	EPCOS	B32921C3104M189	1
26	C123	Capacitor	Chemi-Con	EKXF451ELL100MJ20S	1
27	C120	Capacitor	KYOCERA	APV0609221M025R	1
28	CN1	Connector	Same Sky	TB005-762-02BE	1
29	CN2	Connector	OhShoreTechnologyInc.	OSTYK51102030	1

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30	CN3,CN11	Connector	TE	282838-2	2
31	CN4,CN8	Connector	Harwin	M20-9990446	0
32	CN5	Connector	Würth	691137710002	1
33	CN6	Connector	Same Sky	TB005-762-04BE	1
34	CN7	Connector	ON-SHORE	OSTVN08A150	1
35	CN9,CN10	Connector	SullinsConnectorSolutions	SFH11-PBPC-D17-RA-BK	2
36	D1,D3,D8,D9,D10,D11,D12,D13	Diode	onsemi	1N4148WS	8
37	D2	Bridge Rectifiers	Shindengen	LL25XB60-7000	1
38	D24	Diode	Diodes	BAW56-7-F	1
39	D4,D17,D18,D19,D20	Zener Diode	onsemi	MM3Z22VT1G	5
40	D5,D14,D15,D16	Diode	Rohm	RFN1LAM7S	4
41	D6,D21,D22,D23,D27	Diode	Diodes	MMBD7000HS-7-F	5
42	D7	Zener Diode	onsemi	MM3Z15VT1G	1
43	D25,D26	Diode	STMicroelectronics	STTH1R06A	2
44	JP1,JP2,JP3,JP4	Jumper	Harwin	M20-9990346	4
45	L2,L3	Inductor	TDK	VLS6045EX-4R7M	2
46	LED1,LED2,LED3,LED4,LED5,LED6,LED7	LED	Harvatek Corporation	B1911UD--20D001014U1930	7
47	Q1,Q3,Q11	MOSFET	Toshiba	SSM3K72KFS	3
48	Q2,Q4,Q5,Q6,Q7,Q8,Q9,Q10	IGBT	Renesas	RJH65T04BDPM-A0	8
49	R1	VARISTOR	Panasonic	ERZE14A471	1
50	R11	VARISTOR	-	-	0
51	R104	Resistor	Yageo	RC0402FR-071K2L	1
52	R70,R71,R72,R105,R122,R123,R156,R164	Resistor	Yageo	RC0402FR-07100RL	8
53	R90,R93,R96,R149,R151,R157,R173	Resistor	Yageo	RC0402JR-070RP	7
54	R117	Resistor	Yageo	RC0402FR-071K1L	1
55	R12	Thermistor	Ametherm	SL32_10015	1
56	R124,R125,R126,R127,R128,R129,R136,R137,R138	Resistor	-	-	0
57	R13,R14,R21,R31,R97,R98,R118,R119,R139,R140, R141,R152,R153,R154	Resistor	Yageo	RC0402FR-071KL	14
58	R130,R131,R132	Resistor	KOA	RK73H2ATTD1200F	3
59	R6,R15,R18,R73,R74,R75,R76,R77,R78	Resistor	Yageo	RC0402FR-0720KL	9
60	R158,R159,R160,R161,R162,R163	Resistor	KOA	SG73P2BTDD6R8J	6
61	R16,R99,R100,R101,R102,R106,R107	Resistor	Yageo	RC0402FR-072KL	7
62	R17	Thermistor	Vishay	NTCS0603E3103JLT	1

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63	R19,R20,R23,R32,R33,R34,R35,R39,R44,R51,R103, R109,R110,R111,R116,R120,R148,R155	Resistor	Yageo	RC0402FR-0710KL	18
64	R24,R25	Resistor	Yageo	RC1210FR-07100KL	2
65	R26,R27	Resistor	TE	TLRP3A30WR005FTE	2
66	R28,R29,R30,R88,R89,R91,R92,R94,R95,R145,R147, R165,R166,R167	Resistor	-	-	0
67	R36,R108	Resistor	Yageo	RC0402FR-07150RL	2
68	R37,R54	Resistor	Yageo	RC0402FR-07270KL	2
69	R38,R169,R172	Resistor	Yageo	RC0402FR-0747KL	3
70	R4,R5,R7,R10	Resistor	KOA	RK73B2ETTD105J	4
71	R40,R41,R47,R48	Resistor	Yageo	RC1210FR-07510KL	4
72	R43	Resistor	Panasonic	ERJ-P06F3600V	1
73	R45	Resistor	KOA	RK73H2ATTD7500F	1
74	R46,R79,R80,R81,R82,R83,R84,R85,R86,R87,R142, R143,R144,R146,R150	Resistor	Yageo	RC0402FR-07330RL	15
75	R49	Resistor	Yageo	RC0402FR-074K3L	1
76	R50,R53	Resistor	Yageo	RC0402FR-07430RL	2
77	R52	Resistor	Yageo	RC0402FR-073K9L	1
78	R55	Resistor	Yageo	RC0402FR-0751KL	1
79	R57,R133,R134,R135	Resistor	Yageo	RC0603JR-070RL	4
80	R112	Resistor	Yageo	RC0402FR-07200RL	1
81	R22,R56	Resistor	Yageo	RC0402FR-076K8L	2
82	R121	Resistor	Yageo	RC0402FR-0710RL	1
83	R9,R42	Resistor	Yageo	RC0402FR-07200KL	2
84	R180,R181	Resistor	Yageo	RC0402FR-07180RL	2
85	R113,R114,R115	Resistor	Yageo	RC0402FR-07680RL	3
86	R168	Resistor	Yageo	RC0402FR-078K66L	1
87	R174,R175,R176,R177,R178,R179	Resistor	Yageo	RC0402FR-0715RL	6
88	R58,R59,R60,R61,R62,R63,R64,R65,R66,R67,R68,R69	Resistor	Yageo	RC0402FR-0782RL	12
89	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11, TP12	Test Pin	-	-	0
90	U1	Relay	TE	T9GV1L14-15	1
91	U9,U10	Gate driver	Renesas	RV1S9207ACCSP-10YC	2
92	U17,U18	Isolators	Renesas	PS9013-Y-F3-AX	2
93	U19,U20	Isolation Amp	Renesas	PS8352AL2-E3-AX	2

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94	U2	AC/DC CONVERTER	MEANWELL	IRM-20-15	1
95	U21,U22,U23	Current sensor	LEM	HMSR-15-SMS	3
96	U24	TVS Diodes	TI	TPD6E001RSER	1
97	U28	Green PAK	Renesas	SLG46826V(SLG7RN48317V)	1
98	U29	Receiver	Renesas	ISL32173EIVZ	1
99	U3,U25,U26,U27	Opamp	Renesas	ISL28191FRUZ-T7	4
100	U30	Digital Isolators	Skyworks	SI8640BD-B-IS	1
101	U4,U7	Buck Regulator	Renesas	ISL85003AFRZ	2
102	U5	Green PAK	Renesas	SLG46826V(SLG7RN48320V)	1
103	U6	DC/DC CONVERTER	Renesas	RAA2230214GSP	1
104	U8	Linear Regulator	Renesas	ISL80103IRAJZ-TK	1
105	U11,U12,U13,U14,U15,U16	Gate driver	Renesas	RV1S9231ACCSP-10YC	6
106	F1	Fuse	Kamaya Inc.	FMC16102WHTP	1
107	L10	Inductor	Bourns	RLB0608-100KL	1
108	L11	Inductor	Sumida	RCP1317NP-471L	1