

Board : RTK0EM0000B16030BJ (Part number)

Date : 2024/11/7

No.	Reference	Description	Manufacturer	PartNumber	Qty
1	C1,C2,C3	Capacitor	MurataElectronics	DE2E3SA472MN3AX02F	3
2	C10,C27,C30,C46,C73,C111	Capacitor	TDK	C1608X7R1C105K080AC	6
3	C102	Capacitor	-	-	0
4	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
5	C112,C113,C114,C115,C116,C117	Capacitor	Walsin	1206B221K501CT	6
6	C118	Capacitor	Yageo	CC0402KRX7R9BB681	1
7	C12	Capacitor	-	ECW-FE2W225K	0
8	C121,C122	Capacitor	KEMET	C1210C104KCRACTU	2
9	C123	Capacitor	Chemi-Con	EKXF451ELL100MJ20S	1
10	C13,C120	Capacitor	Rubycon	25TPV220M6.3X8	2
11	C17,C37,C52,C77	Capacitor	Panasonic	EEE-FK1E470P	4
12	C19,C22,C24	Capacitor	UnitedChemi-Con	ESMQ451VSN561MR50S	3
13	C23,C40,C103	Capacitor	TDK	C1005X5R1E223K050BA	3
14	C35,C50	Capacitor	TDK	CGA2B2C0G1H4R7C050BA	2
15	C36,C51	Capacitor	Yageo	CC1206MKX5R8BB226	2
16	C4,C5,C6	Capacitor	KEMET	R46KI347000N0M	3
17	C47,C60,C61,C62,C63,C126	Capacitor	MurataElectronics	GRT31MC81H105KE01L	6
18	C53	Capacitor	Panasonic	ECW-FE2W225K	1
19	C57,C58,C59	Capacitor	-	-	0
20	C7,C8,C16,C18,C21,C38,C39,C49,C54,C55,C56,C64,C67,C106,C107,C109,C125	Capacitor	Samsung	CL32A106KBJNNNE	17
21	C74,C75,C76,C78,C79,C80	Capacitor	TDK	CGA2B3X7R1H473K050BB	6
22	C83,C84,C85,C110	Capacitor	MurataElectronics	GCM155L81H472KA37D	4
23	C87,C88,C89,C119	Capacitor	Yageo	CC0402KRX7R9BB222	4
24	C9,C14,C48	Capacitor	TDK	C1005C0G1H470J050BA	3
25	C90,C97,C98,C100,C101,C104	Capacitor	TDK	C1005X7R1H471K050BA	6
26	CN1	Connector	CUIDevices	TB005-762-03BE	1

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27	CN2	Connector	OnShoreTechnologyInc.	OSTYK51102030	1
28	CN3,CN11	Connector	TE	282838-2	2
29	CN4,CN8	Connector	Harwin	M20-9990446	0
30	CN5	Connector	Würth	691137710002	1
31	CN6	Connector	CUIDevices	TB005-762-04BE	1
32	CN7	Connector	ON-SHORE	OSTVN08A150	1
33	CN9,CN10	Connector	SullinsConnectorSolutions	SFH11-PBPC-D17-RA-BK	2
34	D1,D3,D8,D9,D10,D11,D12,D13	Diode	onsemi	1N4148WS	8
35	D2	Bridge Rectifiers	Diotec	DBI25-16A	1
36	D24	Diode	Diodes	BAW56-7-F	1
37	D26	Diode	STMicroelectronics	STTH1R06A	1
38	D4,D17,D18,D19,D20	Zener Diode	onsemi	MM3Z22VT1G	5
39	D5,D14,D15,D16,D25	Diode	Rohm	RFN1LAM7S	5
40	D6,D21,D22,D23	Diode	Diodes	MMBD7000HS-7-F	4
41	D7	Zener Diode	onsemi	MM3Z15VT1G	1
42	F1	Fuse	Kamaya Inc.	FMC16102WHTP	1
43	JP1,JP2,JP3,JP4	Jumper	Harwin	M20-9990346	4
44	L10	Inductor	Bourns	RLB0608-100KL	1
45	L11	Inductor	Abracon	AIUR-06-471K	1
46	L2,L3	Inductor	TDK	VLS6045EX-4R7M	2
47	L4,L5,L6,L7,L8,L9	Ferrite bead	MurataElectronics	BLM18AG221SN1	6
48	LED1,LED2,LED3,LED4,LED5,LED6,LED7	LED	Harvatek Corporation	B1911UD--20D001014U1930	7
49	Q1,Q3,Q11	MOSFET	Toshiba	SSM3K72KFS	3
50	Q2,Q4,Q5,Q6,Q7,Q8,Q9,Q10	IGBT	Renesas	RJH65T04BDPM-A0	8
51	R1,R2,R3	VARISTOR	Panasonic	ERZE14A471	3
52	R104	Resistor	Yageo	RC0402FR-071K2L	1
53	R11	VARISTOR	-	-	0
54	R112	Resistor	Yageo	RC0402FR-07200RL	1
55	R113,R114,R115	Resistor	Yageo	RC0402FR-07680RL	3
56	R117	Resistor	Yageo	RC0402FR-071K1L	1
57	R12	Thermistor	Ametherm	SL32_10015	1
58	R121	Resistor	Yageo	RC0402FR-0710RL	1
59	R124,R125,R126,R127,R128,R129,R136,R137,R138	Resistor	-	-	0

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60	R13,R14,R21,R31,R97,R98,R118,R119,R139,R140,R141,R152,R153,R154	Resistor	Yageo	RC0402FR-071KL	14
61	R130,R131,R132	Resistor	KOA	RK73H2ATTD1200F	3
62	R158,R159,R160,R161,R162,R163	Resistor	KOA	SG73P2BTDD6R8J	6
63	R16,R99,R100,R101,R102,R106,R107	Resistor	Yageo	RC0402FR-072KL	7
64	R168	Resistor	Yageo	RC0402FR-079K1L	1
65	R17	Thermistor	Vishay	NTCS0603E3103JLT	1
66	R19,R20,R23,R32,R33,R34,R35,R39,R44,R51,R103,R109,R110,R111,R116,R120,R148,R155	Resistor	Yageo	RC0402FR-0710KL	18
67	R22,R56	Resistor	Yageo	RC0402FR-076K8L	2
68	R24,R25	Resistor	Yageo	RC1210FR-07100KL	2
69	R26,R27	Resistor	TE	TLRP3A30WR005FTE	2
70	R28,R29,R30,R88,R89,R91,R92,R94,R95,R145,R147,R165,R166,R167	Resistor	-	-	0
71	R36,R108	Resistor	Yageo	RC0402FR-07150RL	2
72	R37,R54	Resistor	Yageo	RC0402FR-07270KL	2
73	R38,R169,R172	Resistor	Yageo	RC0402FR-0747KL	3
74	R4,R5,R7,R8,R10,R170,R171	Resistor	KOA	RK73B2ETTD105J	7
75	R40,R41,R47,R48	Resistor	Yageo	RC1210FR-07510KL	4
76	R43	Resistor	Panasonic	ERJ-P06F3600V	1
77	R45	Resistor	KOA	RK73H2ATTD7500F	1
78	R46,R79,R80,R81,R82,R83,R84,R85,R86,R87,R142,R143,R144,R146,R150	Resistor	Yageo	RC0402FR-07330RL	15
79	R49	Resistor	Yageo	RC0402FR-074K3L	1
80	R50,R53	Resistor	Yageo	RC0402FR-07430RL	2
81	R52	Resistor	Yageo	RC0402FR-073K9L	1
82	R55	Resistor	Yageo	RC0402FR-0751KL	1
83	R57,R133,R134,R135	Resistor	Yageo	RC0603JR-070RL	4
84	R58,R59,R60,R61,R62,R63,R64,R65,R66,R67,R68,R69,R70,R71,R72,R105,R122,R123,R156,R164	Resistor	Yageo	RC0402FR-07100RL	20
85	R6,R15,R18,R73,R74,R75,R76,R77,R78	Resistor	Yageo	RC0402FR-0720KL	9
86	R9,R42	Resistor	Yageo	RC0402FR-07200KL	2
87	R90,R93,R96,R149,R151,R157,R173	Resistor	Yageo	RC0402JR-070RP	7

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88	T1	Pin-Plate	-	-	0
89	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12	Test Pin	-	-	0
90	U1	Relay	TE	T9GV1L14-15	1
91	U11,U12,U13,U14,U15,U16	Gate driver	Renesas	RV1S9231ACCSP-10YC	6
92	U17,U18	Isolators	Renesas	PS9013-Y-F3-AX	2
93	U19,U20	Isolation Amp	Renesas	PS8352AL2-E3-AX	2
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	U9,U10	Gate driver	Renesas	RV1S9207ACCSP-10YC	2