

Board : RTK0EM0000B12020BJ (Part number)

Schematic : R12TU0122EJ0120 (Document number)

Date : 2025/5/21

No.	Reference	Description	Manufacturer	PartNumber	Qty
1	C1,C2	Capacitor	Panasonic	ECA-2AHG471	2
2	C12,C13,C16,C18	Capacitor	TDK	CGA3E2X7R1E104K080AA	4
3	C19	Capacitor	TDK	CGA4J3X7S2A105K125AE	1
4	C20	Capacitor	Nichicon	UHE2A470MPD	1
5	C21	Capacitor	Taiyo Yuden	UMK105B7103KV-F	1
6	C22,C24,C25,C30,C33,C36,C49,C52,C53,C62,C63,C64,C65,C66,C70	Capacitor	TDK	CGA3E2X7R1E104K080AA	15
7	C23	Capacitor	TDK	CGA3E3X7S2A104K080AB	1
8	C26,C28,C31,C68,C69	Capacitor	Taiyo Yuden	TMK316BBJ226ML-T	5
9	C29	Capacitor	Murata	GCJ219R71H334KA12D	1
10	C27	Capacitor	TDK	CGA3E3X5R1E105M080AB	1
11	C32	Capacitor	Taiyo Yuden	UMK105B7472KV-F	1
12	C67	Capacitor	Taiyo Yuden	HMK105B7332KVHFE	1
13	C4,C5,C10	Capacitor	-	-	0
14	C39,C46,C38,C45,C57	Capacitor	TDK	C1005X7R1H102K050BA	5
15	CN1	Connector	On Shore Technology Inc.	OSTYC022150	1
16	CN2	Connector	On Shore Technology Inc.	OSTOQ035451	1
17	CN3,CN4	Connector	Sullins Connector Solutions	SFH11-PBPC-D17-RA-BK	2
18	CN5	Connector	HARWIN	M20-9980546	1
19	CN6	Connector	On Shore Technology Inc.	OSTVN05A150	1
20	D1	Diode	Vishay	V3PM10-M3/H	0
21	D16,D17,D18,D19	Diode	Diodes Incorporated	MMBD7000HS-7-F	0
22	D2,D3,D5,D6,D11,D12,D13,D20,D21	Diode	Rohm	RF05VAM1STR	9
23	D4,D8,D9,D10	Diode	Diodes Incorporated	MMBD7000HS-7-F	4
24	D7,D14,D15	Diode	Vishay	V3PM10-M3/H	3
25	J1	DCjack	Tensility International Corp	54-00164	1
26	JP1,JP2,JP3,JP4,JP6,JP8,JP11,JP12,JP13	Jumper	HARWIN	M20-9990346	9
27	JP5,JP7,JP9,JP10,JP14,JP15	Jumper	HARWIN	M20-9990246	6

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28	L1	Inductor	Taiyo Yuden	NRS8040T101MJGKV	1
29	L2	Inductor	Taiyo Yuden	NR6028T100M	1
30	LED1,LED2,LED3,LED4	LED	Rohm	SML-D12D8WT86	4
31	Q1,Q2,Q3,Q5,Q6,Q7	MOSFET	Renesas	RJK1054DPB-00	6
32	Q4	MOSFET	Diodes Incorporated	DMN63D8L	1
33	R1,R20,R23,R25,R34,R50,R63,R74,R88,R97,R102,R103,R104,R114,R128,R129,R130,R131,R136,R137,R138,R139,R140,R141	Resistor	KOA	RK73H1ETTP1002F	24
34	R11,R27,R29,R31,R124,R125	Resistor	KOA	RK73H1ETTP4700F	6
35	R12,R13,R15,R52,R53,R54,R55,R82,R83,R135,C34,C35,C37,C40,R41,C41,R42,C42,R43,C43,C44,C47,C48,C50,C51,C54,C55,C56,C58,C59,C60,C61,C7,C9,C11,C14,C15,C17	Land pattern	-	-	0
36	R122,R123	Resistor	KOA	RK73H1ETTP6802F	2
37	R18,R19,R22,R24,R28,R56,R57,R60,R61,R64,R71,R79,R84,R89,R90,R94,R101,R109,R113,R120,R121,R132	Resistor	KOA	RK73Z1ETTP	22
38	R2,R3,R4,R6,R9,R10,R14,R16,R17,R38,R39,R40	Resistor	KOA	RK73H1ETTP33R0F	12
39	R21,R49	Resistor	KOA	RK73H1ETTP8202F	2
40	R26	Resistor	KOA	RK73H1ETTP9102F	1
41	R30	Resistor	KOA	RK73H1ETTP6801F	1
42	R32	Resistor	KOA	RK73H1ETTP1202F	1
43	R33,R44	Resistor	KOA	RK73H1ETTP2201F	2
44	R45,R46,R47,R51	Resistor	Rohm	PMR100HZPFU10L0	4
45	R48	Resistor	KOA	RK73H1ETTP3901F	1
46	R5,R7,R8,R35,R36,R37,R69,R77,R106,R126,R127,R133	Resistor	KOA	RK73H1ETTP1000F	12
47	R58,R59,R66,R67,R68,R70,R75,R76,R81,R87,R91,R92,R99,R105,R112	Resistor	KOA	RK73H1ETTP2002F	15
48	R62,R65,R72,R73,R78,R80,R85,R86,R95,R96,R110,R111,R116,R117,R118,R119	Resistor	KOA	RK73H1ETTP1001F	16
49	R93	Resistor	KOA	RK73H1ETTP1502F	1

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50	R98,R100,R107,R108,R115,R134	Resistor	KOA	RK73H1ETTP3302F	6
51	SW1	Switch	Niced Copal	ATE1D-2M3-10-Z	1
52	SW2	Switch	Panasonic	EVQ-5PN04K	1
53	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27,TP28,TP29,TP30,TP31,TP32,TP33,TP34,TP35,TP36,TP37,TP38,TP39,TP40,TP41,TP42,TP43,TP44,TP45,TP46,TP47,TP48,TP49,TP50,TP51	Test pin	-	-	0
54	U1,U2,U3	Gate driver	Renesas	HIP2211FR8Z	3
55	U11	Logic gate	Texas Instruments	SN74LVC3G14DCUR	1
56	U13	Voltage detector	Diodes Incorporated	APX809S00-40SR-7	1
57	U4	Buck converter	Texas Instruments	LM5017MRX/NOPB	1
58	U5	Boost converter	Renesas	ISL97656IRTZ	1
59	U6,U7,U10,U12	Opamp	Renesas	ISL28191FHZ-T7	4
60	U8	Comparator	STMicroelectronics	TS332IQ2T	1
61	U9	Logic gate	Texas Instruments	SN74HCS08PWR	1
62	VR1	Variable resistor	Bourns	3386P-1-103TLF	1
63	C71,C72,C73	Capacitor	Murata	GCM32ER71H475KA55K	3
64	C3,C6,C8	Capacitor	Murata	GRM188R71E474KA12J	3