

Board : RTK0EMA270C00002BJ (Part number)
Schematic : R12TU0336EJ0100 (Document number)
Date : 2025/5/21

No.	Reference	Description	Manufacturer	PartNumber	Qty
1	C1,C2	Capacitor	TDK	CGA2B2NP01H100D050BA	2
2	C19	Capacitor	Taiyo Yuden	EMK212ABJ475KGHT	1
3	C21,C22,C23,C24,C25,C26,C27,C28,C29,C34,C35,C36,C37,C38,C39,C40,C41,C42,C43,C44,C45,C46,C51,C52,C53,C54,C55,C56,C57,C58,C59,C60,C61,C62	Capacitor	Murata	GCM155R71H221KA37D	34
4	C3,C4,C5,C6,C7,C8,C9,C11,C12,C14,C15,C16,C17,C18,C20,C64,C68,C69,C70,C71	Capacitor	Taiyo Yuden	UMK105BJ104KV-F	20
5	C63,C66	Capacitor	TDK	CGA3E3X5R1E105M080AB	2
6	C65	Capacitor	Taiyo Yuden	UMK105B7103KV-F	1
7	C67	Capacitor	TDK	C3216X7R1E106K160AB	1
8	CN1	Connector	-	-	0
9	CN10	Connector	Molex	533750410	1
10	CN2	Connector	-	-	0
11	CN3	Connector	JAE	DX07S016JA3R1500	1
12	CN4,CN5,CN6,CN7	Connector	Sullins Connector Solutions	PREC017DBAN-M71RC	4
13	CN8	Connector	-	-	0
14	CN9	Connector	-	-	0
15	D1	Diode	Rohm	RF05VAM1STR	1
16	D2	Diode	Vishay	VS-12CWQ03FNTRR-M3	1
17	D3	Diode	Semtech	uClamp0571P.TNT	1
18	JP1,JP2,JP3,JP4,JP5,JP6,JP7,JP8,JP9,JP10,JP14,JP17,JP18,JP19,JP20,JP21,JP22	Jumper	HARWIN	M20-9990346	17
19	JP11	Jumper	-	-	0
20	JP12,JP15,JP16,JP23,JP24,JP25,JP26,JP27	Jumper	HARWIN	M20-9990246	8
21	JP13	Jumper	HARWIN	M20-9980446	1
22	LED7	LED	-	-	0
23	LED1,LED2,LED3,LED4,LED5,LED6,LED8	LED	Rohm	SML-D12D8WT86	7
24	R1,R3,R7,R103,R106,R107,R109,R111,R112,C10,C13,C30,C31,C32,C33,C47,C48,C49,C50,C72	Land pattern	-	-	0
25	R12,R13	Resistor	KOA	RK73H1ETTP5101F	2
26	R16,R101,R102	Resistor	KOA	RK73H1ETTP2402F	3
27	R19,R21,R22,R39,R41,R42,R59,R60,R61,R62,R63,R64,R71,R72,R73,R74,R75,R76,R97	Resistor	KOA	RK73H1ETTP1001F	19

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28	R2,R6,R100	Resistor	KOA	RK73H1ERTTP22R0F	3
29	R24,R25,R26,R28,R29,R30,R31,R32,R37,R38,R44, R45,R46,R47,R48,R49,R50,R51,R53,R54,R65,R66, R67,R68,R69,R70,R77,R78,R79,R80,R81,R82	Resistor	KOA	RK73H1ETTP6800F	32
30	R27,R33,R34,R35,R36,R52,R55,R56,R57,R58,R96, R98,R104,R105,R108,R110	Resistor	KOA	RK73Z1ETTP	16
31	R4,R11,R15,R99	Resistor	KOA	RK73H1ETTP4702F	4
32	R5,R9,R14	Resistor	KOA	RK73H1ETTP1500F	3
33	R8,R10,R17,R18,R20,R23,R40,R43,R83,R84,R85,R 86,R87,R88,R89,R90,R91,R92,R93,R94,R95	Resistor	KOA	RK73H1ETTP4701F	21
34	SW1	Switch	Panasonic	EVQ-5PN04K	1
35	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,T P11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP1 9,TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27, TP28,TP29	Test pin	-	-	0
36	U1	MCU	Renesas	R7FA6T2BD3CFP	1
37	U2	MCU	Renesas	R7FS124773A01CFM#AA1	1
38	U3	Diode	Semtech Corporation	RClamp0582N.TCT	1
39	U4	Logic gate	Texas Instruments	SN74LVC2G32DCUR	1
40	U5,U6	Buffer	Texas Instruments	SN74LV07APWR	2
41	U7	Logic gate	Nexperia	74AHC1G04GW,125	1
42	U8	LDO	Renesas	ISL9001AIRNZ-T	1
43	X1	Crystal	Abracon LLC	ABM8AIG-10.000MHZ-12-2Z-T3	1