

Board : RTK0EMXDE0C00000BJ (Part number)

Schematic : R12TU0146EJ0110 (Document number)

Date : 2023/6/10

No.	Reference	Description	Manufacturer	PartNumber	Qty
1	C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,C15,C31,C32,C50,C51,C52,C59,C60,C61,C63,C65,C72,C73,C75,C77,C79,C80,C83,C85,C86,C94,C98,C103,C106,C117,C118,C120,C121,C122,C123,C124,C125,C126,C127,C128,C129,C130,C131	Capacitor	Murata	GCM155R71C104KA55D	52
2	C100,C105	Capacitor	Taiyo Yuden	UMK316BBJ106ML-T	2
3	C102	Capacitor	TDK	C1608C0G2A681J080AA	1
4	C109	Capacitor	Murata	GCM1885C2A820FA16D	1
5	C16	Capacitor	Taiyo Yuden	TMK107BJ224KAHT	1
6	C17,C18	Capacitor	TDK	CGA2B2C0G1H100D050BA	2
7	C22,C23,C24,C26,C27,C28,C39,C40,C43,C46,C47,C48	Capacitor	Murata	GCM155R71H102KA37D	12
8	C19,C20,C21,C25,C29,C30,C33,C34,C35,C36,C37,C38,C41,C42,C44,C45	Capacitor	Murata	GRM155R72A221KA01D	16
9	C53,C66	Capacitor	Taiyo Yuden	GMK316BJ225KLHT	2
10	C54,C67	Capacitor	TDK	CGA2B2C0G1H101J050BA	2
11	C62,C64,C76,C78	Capacitor	Taiyo Yuden	TMK316BBJ226ML-T	4
12	C74	Capacitor	TDK	CGA4J3X7R1E155M125AB	1
13	C81,C84,C119	Capacitor	Taiyo Yuden	UMK212B7105MG-T	3
14	C82,C87,C88	Capacitor	Taiyo Yuden	GMK316BJ475KLHT	3
15	C89,C91,C95,C101	Capacitor	Murata	GCM155R71H103KA55D	4
16	C90	Capacitor	Murata	GCM155R71H471KA37D	1
17	C93,C97,C110	Capacitor	KEMET	C0603C331F5GACTU	3
18	CN1,CN2	Connector	Sullins Connector Solutions	SFH11-PBPC-D10-ST-BK	2
19	CN10	Connector	-	-	0
20	CN11	Connector	-	-	0
21	CN12	Connector	-	-	0
22	CN13	Connector	Hirose Electric Co Ltd	UX60SC-MB-5ST	1

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23	CN14	Connector	On shore technology	OSTOQ101251	1
24	CN3,CN4	Connector	JST	B5B-XH-A(LF)(SN)	2
25	CN5	Connector	-	-	0
26	CN6	Connector	JST	B4B-XH-A(LF)(SN)	1
27	CN7	Connector	Sullins Connector Solutions	PPTC041LFBN-RC	1
28	CN8,CN9	Connector	Würth	7499010211A	2
29	D1,D2,D3	Diode	Rohm	RF05VAM1S	3
30	FP1	Resistor	KOA	RK73H1JTDD4702F	1
31	FP11	Resistor	KOA	RK73H1JTDD1502F	1
32	FP13	Resistor	KOA	RK73H1JTDD1003F	1
33	FP2,C92,C96	Capacitor	KEMET	C0603C332F3GEC7867	3
34	FP3,R127,R129,R132,R134,R135,R137,R154,R155,R159,R160,R163,R164,R165,R1,R4,R83,R106,R119,R120,R123,R124,R141,R147,R148	Resistor	KOA	RK73Z1JTDD	25
35	FP4	Resistor	KOA	RK73H1JTDD4701F	1
36	FP5,FP8,FP9,FP12	Capacitor	KEMET	C0603C221F5GACTU	4
37	FP6,FP10,C112,C115,R157,R161,R162	Land pattern	-	-	0
38	FP7	Resistor	KOA	RK73H1JTDD6801F	1
39	JP1,JP4	Jumper	Harwin Inc.	M20-9990346	2
40	JP2,JP3	Jumper	Harwin Inc.	M20-9990246	2
41	JP5	Jumper	Harwin Inc.	M20-9980346	1
42	L1	Inductor	Murata	BLM21PG300SN1D	1
43	LED1	LED	ROHM	SML-522MU8W	1
44	LED2	LED	ROHM	SML-H12U8TT86	1
45	LED3,LED4,LED5,LED6,LED7	LED	ROHM	SML-H12P8TT86	5
46	R11,R12,R169,R171,R174,R177,R185,R188,R190,R192,R194,R199,R219,R225,R228,R229,R230,R231,R233,R234,R235,R236,R237,R238,R239,R240,R241,R242,R243,R244,R245	Resistor	KOA	RK73H1ETTP4701F	31
47	R114	Resistor	KOA	RK73H1ETTP2402F	1
48	R125,R128	Resistor	KOA	RK73H1ETTP3901F	2
49	R126,R131	Resistor	KOA	RK73H1ETTP2002F	2

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50	R13,R14,R15,R16,R17,R18,R19,R20,R21,R22,R23,R24,R25,R26,R27,R34,R35,R36,R40,R41,R42,R43,R44,R46,R47,R48,R49,R50,R57,R58,R59,R60,R61,R84,R85,R122,R208,R217,R220	Resistor	KOA	RK73H1ETTP1001F	39
51	R138,R142,R143,R144	Resistor	KOA	ERA-3AEB510V	4
52	R140	Resistor	Vishay	CRCW04024R70FKEDC	1
53	R150	Resistor	KOA	RK73H1ETTP1R00F	1
54	R151	Resistor	KOA	RK73H1ETTP4302F	1
55	R152	Resistor	KOA	RK73H1ETTP6202F	1
56	C49,C55,C56,C57,C58,C68,C69,C70,C71,C99,C104,C107,C108,C111,C113,C114,C116,R2,R74,R75,R81,R82,R98,R99,R104,R105,R109,R145,R146,R149,R153,R156,R158,R166,R204,R205,R206,R207,R209,R210,R211,R212,R213,R214,R215,R216,R218,R221,R222,R223,R224	Resistor,Capacitor	-	-	0
57	R136,R200	Resistor	KOA	RK73H1ETTP5602F	2
58	R28,R32,R33,R37,R38,R39,R175	Resistor	KOA	RK73H1ETTP6800F	7
59	R3,R29,R30,R31,R45,R51,R53,R54,R55,R115,R116,R117,R118,R121,R168,R172,R181,R186,R195,R198,R201,R202,R203,R227,R246	Resistor	KOA	RK73H1ETTP1002F	25
60	R5,R6,R7,R8,R9,R10,R107,R108,R130	Resistor	KOA	RK73H1ETTP2001F	9
61	R52,R62,R63,R64,R65,R66,R67,R68,R69,R70,R71,R72,R73,R76,R77,R78,R79,R86,R87,R88,R89,R90,R91,R92,R93,R94,R95,R96,R97,R100,R101,R102,R110,R111,R112,R113,R178,R226	Resistor	KOA	RK73H1ETTP22R0F	38
62	R56,R133,R139	Resistor	KOA	RK73H1ETTP4702F	3
63	R80,R103	Resistor	KOA	RK73H1ETTP6491F	2
64	SW1	Switch	Panasonic - ECG	EVQ-5PN04K	1

No.	Reference	Description	Manufacturer	PartNumber	Qty
65	TP1,TP3,TP13,TP15,TP16,TP23,TP25,TP26,TP27,TP28,TP31,TP32,TP43,TP44,TP45,TP46,TP47,TP48,TP49,TP50,TP51,TP52,TP53,TP54,TP55,TP56,TP57,TP58,TP59,TP60,TP61,TP62,TP63,TP64,TP65,TP66,TP67,TP68,TP69,TP70,TP71,TP72,TP73,TP74,TP75,TP76,TP77,TP78,TP79,TP80,TP81,TP82,TP83,TP84,TP85,TP86,TP87,TP88,TP89,TP90,TP91,TP92,TP93,TP94,TP95,TP96,TP97,TP98,TP99,TP100,TP101,TP102	Test pin	—	—	0
66	TP2,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP14,TP17,TP18,TP19,TP20,TP21,TP22,TP24,TP29,TP30,TP33,TP34,TP35,TP36,TP37,TP38,TP39,TP40,TP41,TP42	Test pad	—	—	0
67	U1	MCU	Renesas	R5F572MNDDBD	1
68	U10	MCU	Renesas	R5F52318ADFL	1
69	U11	LDO	Renesas	ISL80505IRAJZ	1
70	U12	RDC	Renesas	RAA3064002GFP	1
71	U13,U14	Level shifter	Renesas	74ALVC164245PAG	2
72	U15	Level shifter	Nexperia	74LVC4245APW	1
73	U2	Level shifter	Texas Instruments	TXS0101DBVR	1
74	U3,U4,U5,U6	Buffer	Texas Instruments	SN74LVC3G07DCUR	4
75	U7,U8	PHY	Microchip	KSZ8081MNXCA-TR	2
76	U9	EEPROM	Renesas	R1EX24016ATAS0I	1
77	X1	Xtal	Abracon	ABM8-24.000MHZ-10-B1U-T	1
78	R183	Resistor	KOA	RK73H1ETTP1103F	1
79	R180,R197	Resistor	Yageo	RC0402FR-0712KL	2
80	R167,R170,R173,R176,R187,R189,R191,R193	Resistor	KOA	RK73H1ETTP1501F	8
81	R179,R196	Resistor	Panasonic	ERJ-2RK5601X	2
82	R182	Resistor	KOA	RK73Z1ETTP	1
83	U16	OPAMP	Renesas	ISL28191FHZ-T7	1
84	R184	Resistor	Yageo	AC0402FR-072K4L	1