

Renesas Electronics Corporation

RAA306012 Control Board RX13T Edition Rev1.02 BOM (RTK0EMXA10E00002BJ)

No	Parts Name	Parts Designator		Quantity		Description	Manufacturer	Note
	Item	Mount	Unmount	Mount	Unmount	Part Number (Product Spec)		
1	RX13T	U1	-	1	-	R5F513T5ADFL	Renesas	
2	3.3VLOD	U102	-	1	-	ISL9005AIRNZ-T	Renesas	
3	Connector (1*2)SMD	JP101	-	1	-	TSM-102-01-L-SV	SAMTEC	
4	Connector (1*3)SMD	JP1,JP2,JP102,JP103	-	4	-	TSM-103-01-L-SV	SAMTEC	
5	Connector (1*4)	-	CNC	-	1	SSW-104-017-T-S	SAMTEC	
6	Connector (2*20)	CNA,CNB	-	2	-	HIF3FB-40DA-2.54DSA(71)	HIROSE	
7	Chip capacitor (22pf/>10V/0603m-1005m)	-	C5,C6	-	2	GRM0335C1E220JA01D(0603m)	MURATA	
8	Chip capacitor (1000pF/>10V/0603m-1005m)	-	C20,C21,C22,C23,C24, C25,C26,C27	-	8	GRM0335C1E102JA01D(0603m)	MURATA	
9	Chip capacitor (0.01uF/10V/0603m-1005m)	-	C111	-	1	GRM033R61A103KA01D(0603m)	MURATA	
10	Chip capacitor (0.1uF/>10V/0603m-1005m)	C1,C2,C3	C110	3	-	GRM033R61E104KE14(0603m)	MURATA	
11	Chip capacitor (1uF/>10V/1005m-1608m)	C7,C109,C112	-	3	1	MCASL105SB5105KFNA01(1005m)	YUDEN	
						MCASL105SB5105KFNA1J(1005m)	YUDEN	Alternate parts
						MMASL105SB5105KFNA01(1005m)	YUDEN	Alternate parts
12	Chip capacitor (4.7uF/>10V/1005m-1608m)	C4	-	1	-	MSASL105BB5475MFNB33(1005M)	YUDEN	
13	Chip resistor(0Ω/1005m-1608m)	R5,R7,R8,R9,R10, R14,R15,R16,R21,R25, R26,R27,R28,R29,R30, R33,R34,R35,R36,R45, R46,R47,R48,R49,R50, R51,R52,R54,R55,R56, R58,R59,R60,R61,R62, R63,R64,R65,R66,R67, R68,R69,R70,R75,R76, R80,R81,R82,R83,R84, R86,R87,R91,R92,R93, R94	R1,R2,R3,R4,R6, R11,R12,R13,R17,R18, R19,R20,R22,R23,R24, R31,R32,R37,R38,R39, R40,R41,R42,R43,R44, R53,R57,R71,R72,R73, R74,R77,R78,R79,	56	34	RK73Z1JTDD	KOA	
						RC0603JR-130RL	YAGEO	
14	Chip resistor(300Ω/1005m-1608m)	R90	-	1	-	RK73B1ETTP301J(1005M)	KOA	
15	Chip resistor(1kΩ/1005m-1608m)	R88	-	1	-	RK73B1ETTP102J(1005M)	KOA	
						RC0402JR-071KL(1005m)	YAGEO	
16	Chip resistor(10kΩ/1005m-1608m)	R89	R95	1	1	RK73B1ETTP103J(1005M)	KOA	
17	Crystal oscillator	-	CT1	-	1	NX8045GB-8MHz	NDK	
						CX8045GB08000H0HEQZ1	KYOCERA	Alternate parts
18	Push switch	S1	-	1	-	SKRPABE010	ALPS	
19	Diode (single)	D1,D101	-	2	-	PMEG2005EH,115	NXP	
20	Common mode choke (Power)	-	CMC1,CMC2	-	2	ACM4520-142-2P-T000	TDK	
21	Jumper cap	JP1,JP2	-	2	-	SNT-100-BK-T	SAMTEC	
						251-8503	RS-PRO	Alternate parts
						HIF3GA-2.54SP	HIROSE	Alternate parts

Revision History

Revision	Date	Description
1.00	Oct.11.2023	·Initial release