

RAJ306010 Evaluation Board (RTK0EML2C0D05020BJ) BOM LIST

Number	Description	Reference	Unmounted	PartNumber	Manufacturer	QTY
1	RAJ306010GNP	IC1		RAJ306010GNP	RENESAS	1
2	RX231	IC2		R5F52318ADFL	RENESAS	1
3	MOSFET	Q1,Q2,Q3,Q4,Q5,Q6		TPH2R506PL,L1Q	TOSHIBA	6
4	Chip Capacitor(20pF,50V,1005M)	C27,C30		GRM1552C1H200JA01D	MURATA	2
5	Chip Capacitor(330pF,50V,1608M)	C2,C3,C4		GRM1882C1H331JA01D	MURATA	3
6	Chip Capacitor(4.7nF,50V,1005M)	C34		GRM155B11H472KA01D	MURATA	1
7	Chip Capacitor(10nF,100V,C1608M)	C16		C1608X7R2A103K080AA	TDK	1
8	Chip Capacitor(15nF,50V,1005M)	C8		GRM155B31H103KA88D	MURATA	1
9	Chip Capacitor(220nF,100V,3216M)	C12		C3216X7R2A224K115AA	TDK	1
10	Capacitor(33uF,100V,10*10mm)	C17		UUX2A330MNL1GS	NICHICON	1
11	Chip Capacitor(0.01uF,25V,1005M)	C19		GRM155B11E103KA01D	MURATA	1
12	Chip Capacitor(0.1uF,50V,1608M)	C1,C5,C6,C7,C9,C11		C1608JB1H104K(T)	TDK	6
17	Chip Capacitor(0.1uF,16V,1005M)	C23,C25,C29,C31,C32		GRM155R61E104KA87D	MURATA	5
13	Chip Capacitor(0.33uF,10V,1005M)	C33		GRM155R61A334KE15D	MURATA	1
14	Chip Capacitor(0.47uF,50V,2012M)	C14		GRM21BB31H474KA87L	MURATA	1
15	Chip Capacitor(0.47uF,16V,1608M)	C10		GCM188R11C474KA40D	MURATA	1
16	Chip Capacitor(1uF,16V,1005M)	C20,C24,C26		C1005X5R1C105M050BC	TDK	3
18	Chip Capacitor(100V,2.2uF,3216M)	C13		C3216X7S2A225K160AB	TDK	1
19	Chip Capacitor(16V,4.7uF,1608M)	C18		C1608X5R1C475KT	TDK	1
20	Chip Capacitor(10V,4.7uF,2012M)	C28		GRM21BB31A475KA74L	MURATA	1
21	Chip Capacitor(50V,4.7uF,3216M)	C15		GRM31CR71H475KA12L	MURATA	1
22	Chip Capacitor(-,-,0603M/1608M)	C100,C101,C102,C103	Unmounted	-	-	4
23	Capacitor(100V,220uF,Can,Φ18)	C21	Unmounted	UHE2A221MHD6	NICHICON	1
24	Capacitor(100V,820uF,Can,Φ18)	C21	Unmounted	UHE2A821MHD	NICHICON	1
25	Capacitor(100V,220uF,Can)	C22		UCD2A221MNQ1MS	NICHICON	1
26	Resistor(0ohm,1608M,1/8W)	R1,R3,R9,R16,R20,R22,R25,R26,R27,R28,R32,R40,R46,R49,R52,R55,R66,R69,R70,R71,R72,R78,R91,R100,R101,R103,R105,R125,R139		RK73Z1JTDD	KOA	29
27	Resistor(0ohm,1608M,1/8W)	R18,R29,R48,R79,R80,R85,R92,R96,R102,R104,R126,R127	Unmounted	RK73Z1JTDD	KOA	12

28	Resistor(100mohm,6432M,3W)	R65		CRA2512-FZ-R100ELF	BOURNS	1
	Resistor(100mohm,6432M,3W)		Unmounted	LRMAP2512-R10FT4	TT Electronics	0
	Resistor(0.5mohm,10052M,3W)		Unmounted	WSL3921L5000FEA	vishay	0
29	Resistor(200mohm,6432M,1w)	R83,R88,R95		WSL2512R2000FEA	Vishay	3
	Resistor(200mohm,6432M,1w)		Unmounted	RL2512FK-070R2L	Yageo	0
	Resistor(0.5mohm,10052M,3W)		Unmounted	WSL3921L5000FEA	vishay	0
30	Resistor(4ohm,6432M,3W)	R82,R87,R94	Unmounted	CRE2512-FZ-R004E-3	Bourns	0
	Resistor(0.5mohm,10052M,3W)		Unmounted	WSL3921L5000FEA	vishay	0
31	Resistor(0ohm,2012M,1/4W)	R34,R37,R41,R47,R106,R107,R109, R111,R113,R115,R117,R119,R121, R123,		RK73Z2ATTD	KOA	14
32	Resistor(0ohm,2012M,1/4W)	R108,R110,R112,R114,R116,R118, R120,R122,R124	Unmounted	RK73Z2ATTD	KOA	9
33	Resistor(100ohm,1608M,1/8W)	R23,R24		RK73H1JTDD1000F	KOA	2
34	Resistor(510ohm,1608M,1/8W)	R19		RK73H1JTDD5100F	KOA	1
35	Resistor(1Kohm,1608M,1/8W)	R12,R13,R14,R15,R21,R50,R51,R5 3,R54,R81,R84,R93,R97		RK73H1JTDD1001F	KOA	13
36	Resistor(1.5kohm,2012M,1/4W)	R60		RK73H2ETTD1501F	KOA	1
37	Resistor(3.3Kohm,1608M,1/8W)	R2,R56,R57,R58,R59,R61,R62,R64		RK73H1JTDD3301F	KOA	8
38	Resistor(3.3Kohm,1608M,1/8W)	R137	Unmounted	RK73H1JTDD3301F	KOA	1
39	Resistor(4.7Kohm,1608M,1/8W)	R68		RK73H1JTDD4701F	KOA	1
40	Resistor(5.6kohm,1608M,1/8W)	R4		RK73H1JTDD5601F	KOA	1
41	Resistor(10Kohm,1608M,1/8W)	R6,R7,R8,R10,R11,R17,R67,R73,R7 7,R86,R98		RK73H1JTDD1002F	KOA	11
42	Resistor(20Kohm,1608M,1/8W)	R74,R76,R89,R90		RK73H1JTDD2002F	KOA	4
43	Resistor(33Kohm,1608M,1/8W)	R33		RK73H1JTDD3302F	KOA	1
44	Resistor(100Kohm,1608M,1/8W)	R30,R35,R36,R38,R39,R42,R43,R4 4,R45,R63		RK73H1ETTP1003F	KOA	10
45	Resistor(390Kohm,1608M,1/8W)	R31		RK73H1ETTP3903F	KOA	1
46	Resistor(2.2Mohm,1608M,1/8W)	R5		RK73H1JTDD2204F	KOA	1
47	Resistor(2.2Mohm,1608M,1/8W)	R138	Unmounted	RK73H1JTDD2204F	KOA	1
48	Resistor(-,3216M/1608M,-)	R128,R129,R130,R131,R132,R133, R134,R135,R136	Unmounted	3216~1608	-	9
49	Variable resistance(20Kohm)	VR1		RK09K1130ACM	ALPS	1
50	Thermocoupl(10Kohm)	Z1		NXFT15XH103FA2B050	MURATA	1
51	Power terminal(RED)	J3,J4		TM052 RED	MSK	3
52	Power terminal(RED)	J2	Unmounted	TM052 RED	MSK	3
53	Power terminal(BLACK)	J5,J6		TM052 BLACK	MSK	3
54	Power terminal(BLACK)	J1	Unmounted	TM052_BLACK	MSK	3

55	Motor Terminal	W,V,U		63824-1	TEConnectivity	3
56	Fuse Terminal	TB100,TB101		178-8411	RS PRO	2
57	Fuse	-		0287040.PXCN	Littelfuse	1
58	Connector(1*10,Φ1.2)	CN2,CN4,CN_DIGI,CN_ANA	Unmounted	A2-10PA-2.54DSA	HRS	4
59	Connector(1*2)	JP21,CN_LIGHT		TSM-102-01-L-SV		2
60	Connector(1*2,Φ1.2)	JP1,JP6,JP7,JP8,JP10,CN10	Unmounted	A2-2PA-2.54DSA	HRS	6
61	Connector(1*20,Φ1.0)	CN3	Unmounted	A1-20PA-2.54DSA		1
62	connector(1*3,Φ1.2)	JP3,JP9	Unmounted	A2-3PA-2.54DSA	HRS	2
63	Connector(1*4)	CN_ENC		TSM-104-01-L-SV	SAMTEC	1
64	Connector(1*4,Φ1.2)	CN_UART	Unmounted	B4B-XH-A(LF)(SN)	JST	1
65	Connector(1*4,Φ1.2)	CN_I2C,CN6,CN7,CN8,CN_VOL	Unmounted	A2-4PA-2.54DSA	HRS	5
66	Connector(1*6,Φ1.2)	CN_HALL		B6B-XH-A(LF)(SN)	JST	1
67	Connector(1*6,Φ1.2)	CN1,CN5,CN_SPI	Unmounted	A2-6PA-2.54DSA	HRS	3
68	Connector(2*4)	ICS_SEL		TSM-104-01-L-DV	SAMTEC	1
69	Connector(2*7)	CN_E1		7614-6002PL	3M	1
70	Connector(2*20)	CN_INV		TSM-110-01-L-DV	SAMTEC	1
71	Crystal unit(8MHz)	CT1		CX8045GB08000H0HEQ Z1	KYOCERA	1
72	Diode	D1,D2,D3		B280-13-F	Diodes Incorporated	3
73	Diode	D4,D6		1SS355TE17	Rohm	2
74	Diode	D5		PMEG2005EH,115	NXP	1
75	Diode	D7		FTZU6.2ET148	ROHM	1
76	Diode	D100,D101,D102	Unmounted	BAV99WT1G	ON Semiconductor	3
77	Ferrite bead	FB1		MPZ1608S102ATA00	TDK	1
78	Ferrite bead	FB2,FB3		BLM21PG300SN1D	MURATA	2
79	Isolator	ISO1		ISO7221CDR	TI	1
80	LED	LED1,LED2,LED3,LED4,LED5,LED 6,LED7		SML-311UTT86	ROHM	7
81	Push switch	S1,S3		SKRPABE010	ALPS	2
82	Test terminal	TP1		HK-4-G	MAC8	1
83	Test terminal	TP2,TP3,TP4,TP5,TP6,TP7		JP-1	mac8	6
84	Toggle switch	TS1		ATE1D-2M3-10-Z	FUJISOKU	1
85	Transistor	TR1		RSF015N06TL	RENESAS	1
86	USB terminal	USB1		UX60SC-MB-5S8(80)	HIROSE	1
87	Varistor	VS1	Unmounted	V85MLA1210N	Littelfuse	1
88	Zener diode	ZD1,ZD2,ZD3,ZD4,ZD5,ZD6		MM5Z18V	Onsemi	6
89	AMP	AMP1		NJM2732V-TE1	MURATA	1