

# RPX-100 Bill of Material

Item	Qty	Reference(s)	Value	Footprint	Distributor	Distributor No	Manufacturer
1	2	C1, C2	1nF	C_0603_1608Metric	Mouser	80-C0603C102K4RECAUT	KEMET
2	1	C3	100nF	C_0603_1608Metric	Mouser	80-C0603C104K3RC7013	KEMET
3	4	C4, C7, C10, C13	10µF	C_0603_1608Metric	Mouser	810-C1608X5R1C106M	KEMET
4	4	C5, C8, C11, C14	100pF	C_0603_1608Metric	Mouser	80-C0603X101K5HAUTO	KEMET
5	4	C6, C9, C12, C15	10nF	C_0603_1608Metric	Mouser	80-C0603Y103K5RAUTO	KEMET
6	1	F1	SXBP-70W+	Mini-Circuits_HF1139	Mini-Circuits	SXBP-70W+	Mini-Circuits
7	1	F2	SXBP-140+	Mini-Circuits_HF1139	Mini-Circuits	SXBP-140+	Mini-Circuits
8	1	F3	SXBP-425+	Mini-Circuits_HF1139	Mini-Circuits	SXBP-425+	Mini-Circuits
9	1	IC1	PSA-14+	SOT-343_SC-70-4_Handsoldering	Mouser	139-PSA-14+	Mini-Circuits
10	1	IC2	HMC241AQS16E	QSOP-16_3.9x4.9mm_P0.635mm	Mouser	584-HMC241AQS16E	Analog Devices
11	1	IC3	SN74HC139DR	SOIC-16_3.9x9.9mm_P1.27mm	Mouser	595-SN74HC139DR	Texas Instruments
12	1	IC4	RA30H0608M	RA30H0608M1	RF Parts	RA30H0608M1	MITSUBISHI
13	1	IC5	RA08H1317M	RA07H4047M101	RF Parts	RA07H4047M101	MITSUBISHI
14	1	IC6	RA07H4047M-101	RA07H4047M101	RF Parts	RA07H4047M101	MITSUBISHI
15	4	IC7, IC8, IC9, IC10	VSW2-33-10W	JZ1436	Mouser	139-VSW2-33-10W	Mini-Circuits
16	1	IC11	74LVC2G04	SOT-23-6_Handsoldering	Mouser	595-SN74LVC2G04DBVRE	Texas Instruments
17	1	IC12	74HC02	SOIC-14_3.9x8.7mm_P1.27mm	Mouser	595-SN74HC02DE4	Texas Instruments
18	1	J1	TX-SDR	SMA_Amphenol_132291_Vertical	Mouser	571-5-1814832-2	TE Connectivity
19	1	J2	RX-SDR	SMA_Amphenol_132291_Vertical	Mouser	571-5-1814832-2	TE Connectivity
20	1	J3	ANT	SMA_Amphenol_132291_Vertical	Mouser	571-5-1814832-2	TE Connectivity
21	1	J4	GPIO SDR	PinHeader_2x05_P2.54mm_Vertical	RS-Components	832-3528	10WAY
22	1	J5	GPIO CM4	PinHeader_2x20_P2.54mm_Vertical	Mouser	649-68000-220HLF	TE Connectivity
23	1	J6	Power Supply	PinHeader_1x04_P2.54mm_Vertical	RS-Components	543-7738	TE Connectivity
24	1	J7	GPIO EXT	PinHeader_1x04_P2.54mm_Vertical	RS-Components	543-7738	TE Connectivity
25	1	LED1	PTT LED	LED_0603_1608Metric	Mouser	710-155060RS75300	Würth Elektronik
26	1	LED2	RX LED	LED_0603_1608Metric	Mouser	710-155060RS75300	Würth Elektronik
27	1	LED3	TX LED	LED_0603_1608Metric	Mouser	710-155060YS75300	Würth Elektronik
28	8	LED4, LED5, LED6, LED7, LED8, LED9, LED10, LED11	GPIO1	LED_0603_1608Metric	Mouser	710-155060GS75300	Würth Elektronik
29	1	R1	16.5 Ohm	R_0603_1608Metric	Mouser	71-CRCW0603-16.5-E3	Vishay / Dale
30	1	R2	200 Ohm	R_0603_1608Metric	Mouser	71-CRCW0603200RJNEAC	Vishay / Dale
31	2	R3, R4	220 Ohm	R_0603_1608Metric	Mouser	71-CRCW0603220RJNEAC	Vishay / Dale
32	3	R5, R6, R7	150 Ohm	R_0603_1608Metric	Mouser	71-CRCW0603150RJNEAC	Vishay / Dale
33	11	R8, R9, R10, R13, R16, R19, R22, R23, R26, R29, R32	330 Ohm	R_0603_1608Metric	Mouser	71-CRCW0603330RJNEAC	Vishay / Dale
34	16	R11, R12, R14, R15, R17, R18, R20, R21, R24, R25, R27, R28, R30, R31, R33, R34	10k Ohm	R_0603_1608Metric	Mouser	CRCW060310K0JNEAC	Vishay / Dale
35	8	T1, T2, T3, T4, T5, T6, T7, T8	BSS138	SOT-23	Mouser	771-BSS138P215	Nexperia