

## rx02\_emulator\_BOM

Assembly Order	Quantity	Reference	Side	Note	Description	Manufacturer	ManufacturerPN	DigikeyPN
1	3	R24,R25,R26	Top	-	1Kohm,1/8W resistor (for 2mA LED current; value appropriate to LED)	Stackpole	CF18JT1K00	CF18JT1K00CT-ND
2	5	R3,R12,R18,R22,R23	Top	-	390ohm,1/4W resistor	KOA Speer	CF1/4CT52R391J	2019-CF1/4CT52R391JCT-ND
3	3	R10,R11,R21	Top	-	180ohm,1/4W resistor	KOA Speer	CF1/4CT52R181J	2019-CF1/4CT52R181JCT-ND
4	1	R4	Top	-	120ohm,1/4W resistor	KOA Speer	CF1/4CT52R121J	2019-CF1/4CT52R121JCT-ND
5	1	U1	Top	-	14p 300mil DIP socket	Assman	A 14-LC-TT	AE9989-ND
6	3	C1-C3	Top	-	100nF/16V ceramic capacitor, 100mil spacing	Vishay	K104K10X7RF53L2	BC5137-ND
7	7	Q1-Q7	Top	-	2N7000 transistor, TO-92 package	Onsemi	2N7000BU	2N7000BU-ND
8	1	J1	Top	-	20x2P 100mil male box header	Sullins Connector	SBH11-PBPC-D20-ST-BK	S9175-ND
9	1	D1	Top	-	LED, RED, 5mm diameter, 100mil spacing	Broadcom	HLMP-4700	516-1325-ND
10	1	D2	Top	-	LED, YEL, 5mm diameter, 100mil spacing	Broadcom	HLMP-4719	516-1326-ND
11	1	D3	Top	-	LED, GRN, 5mm diameter, 100mil spacing	Broadcom	HLMP-4740	516-1327-ND
12	2	C4,C5	Top	-	33uF/16V electrolytic capacitor, radial, 100mil spacing, 6mm max diameter	Panasonic	ECE-A1CKS330	P968-ND
13	1	P4	Bottom	-	10x1P 100mil male header, 0.230/0.120 pin length, breakaway strip	Sullins Connector	PRPC040SAAN-RC	S1011EC-40-ND
14	2	P2,P3	Bottom	-	8x1P 100mil male header, 0.230/0.120 pin length, breakaway strip	ref item 13	-	-
15	1	P7	Bottom	-	18x2P 100mil male header, 0.230/0.120 pin length, breakaway strip	Sullins Connector	PRPC018DAAN-RC	S2011EC-18-ND
16	1	P10	Top	-	7x1P 100mil male header, 0.230/0.120 pin length, breakaway strip	ref item 13	-	-
17	1	P10	Top	-	microSD breakout board	AK6DN	-	-
18	1	U1	Top	-	74HCT/AHCT14 hex schmitt inverter (or HC/AHC14)	Texas Instruments	SN74AHCT14N	296-4674-5-ND
-	3	P1,P5,P6	Bottom	NOSTUFF	8x1P 100mil male header, 0.230/0.120 pin length, breakaway strip	-	-	-
-	2	P8,P9	Top	NOSTUFF	6x1P 100mil male header, 0.230/0.120 pin length, breakaway strip	-	-	-