



Parallax RFID Card Reader Serial (#28140) Rev. C Bill-of-Materials
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Notes:

- 1) BOM does not include PCB, assembly, or packaging
- 2) Unused designators: R4, R5, C10, C12, C13, D2, D3, D4, D5

Item	Quantity	Reference	Manufacturer	Manuf. Part #	Distributor	Distrib. Part #	Description
1	5	C1,C2,C3,C9,C17	Kemet	C0603C104K4RACTU	Digi-Key	399-1096-1-ND	0.1uF bypass capacitor, 16V, X7R, 0603
2	1	C4	Panasonic	ECH-U1H821GX5	Digi-Key	PCF1295CT-ND	820pF capacitor, 2%, 50V, PPS Film, 0805
3	1	C5	Panasonic	ECH-U1H222GX5	Digi-Key	PCF1300CT-ND	2200pF capacitor, 2%, 50V, PPS Film, 0805
4	1	C6	Panasonic	ECH-U1H221GX5	Digi-Key	PCF1288CT-ND	220pF capacitor, 2%, 50V, PPS Film, 0805
5	1	C7	Panasonic	ECJ-1VC1H390J	Digi-Key	PCC390ACVCT-ND	39pF capacitor, 50V, NP0, 0603
6	1	C8	Panasonic	ECJ-2VC1H152J	Digi-Key	PCC2156CT-ND	1500pF capacitor, 50V, NP0, 0805
7	1	C11	Kemet	C0603C103K5RACTU	Digi-Key	399-1091-1-ND	0.01uF bypass capacitor, 50V, X7R, 0603
8	1	C14	Kemet	C0603C102K5RACTU	Digi-Key	399-1082-1-ND	0.001uF capacitor, 50V, X7R, 0603
9	1	C15	Kemet	T491A106M016AS	Digi-Key	399-3098-1-ND	10uF capacitor, 20%, 16V, tantalum, size A
10	1	C16	Kemet	C0603C223K5RACTU	Digi-Key	399-1280-1-ND	0.022uF capacitor, 50V, X7R, 0603
11	1	D1	Kingbright	KPB-3025ESGC	Rep 7 Electronics	N/A	Red/Green Bi-Color SMT LED
12	1	R1	Panasonic	ERJ-3GEYJ472V	Digi-Key	P4.7KGCT-ND	4.7k, 5%, 1/10W, 0603
13	1	R2	Panasonic	ERJ-3GEYJ471V	Digi-Key	P470GCT-ND	470 ohm, 5%, 1/10W, 0603
14	1	R3	Panasonic	ERJ-3GEYJ271V	Digi-Key	P270GCT-ND	270 ohm, 5%, 1/10W, 0603
15	1	R6	Panasonic	ERJ-6GEYJ8R2V	Digi-Key	P8.2ACT-ND	8.2 ohm, 5%, 1/8W, 0805
16	1	U1	Microchip	PIC16F627A-I/SS	Digi-Key	PIC16F627A-I/SS-ND	Microcontroller, SSOP20, 16F or 16LF (628A OK)
17	1	U2	EM Microelectronic	EM4095HMSO16A	Omni Pro	N/A	125kHz RFID Basestation Front End, SOIC16
18	1	JP1	Molex	22-28-8040	Digi-Key	WM6004-ND	Single row, right-angle vertical header, 4 pin