

Component list

RF233 Amp ZigBit

Source Data From:

RFOnly_233.PrjPcb

Project:

RFOnly_233.PrjPcb

Variant:

Variant of RFOnly_233_tuned

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#	Designator	Quantity	Value	Manufacturer	MPN	Description
1	A1	1	2450AT42B100	Johanson Technology	2450AT42B100	2.4 GHz Antenna
2	C1, C9	2	100n	Kemet	C0402C104K4RACTU	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%
3	C2, C10	2	1uF	AVX	0603YD105KAT2A	CAP CER 1UF 16V 10% X5R 0603
4	C3	1	2.2 pF	Kemet	CBR02C229C9GAC	CAP CER 2.2PF 6.3V NP0 0201
5	C5	1	22pF	Johanson Technology	250R05L220JV4T	Ceramic Capacitor, SMD 0201, 25V, NP0, 22PF
6	C6, C7, C12, C13, C14, C15	6	100n, 100n, 100n, 100nF, 100nF, 100nF	Kemet	C0201C104K9PACTU	CAP CER 0.1UF 6.3V 10% X5R 0201
7	C8, C11	2	10 pF	Murata	GRM0335C1E100JA01D	Ceramic capacitor, SMD 0201, C0G, 25V, +/-0.25pF
8	J1	1	MS147	HIROSE	CL358-150-5-01	Interface RF Connector with Sw itch,
9	L1	1	3.9 nH	Johanson Technology	L-05C3N9SV6T	Inductor 3.9 nH, 0201 package, +/-0.3 nH tolerance
10	L3	1	BLM15PD800SN1	Murata	BLM15PD800SN1	FERRITE CHIP 80 OHM 1500MA 0402
11	L4	1	4.7nH	Johanson Technology	L-05C4N7SV6T	Inductor 4.7nH, tolerance +/-0.3 nH,0201 package
12	LABEL1	1	Label ZigBit Shield	ACT Logimark AS	505494	ZigBit Identification label. 15x10mm fireproof label w/blue Atmel logo
13	PCB1	1	ZigBit 2.4GHz RF-only board PCB			ZigBit 2.4GHz RF-only board PCB
14	Q1	1	16.0MHz	Epson Toyocom	TSX-3225 16.0000MF09Z-AC3	16MHz uXtal, 3.2 x 2.5 mm SMD, CL=9pF, 15PPM, ESR=80ohm(Max.
15	R1	1	680R	YAGEO CORP	RC0201JR-07680RL	RES 680 OHM 1/20W 5% 0201 SMD
16	R2, R11	2	49.9R	ROHM	MCR006YZPF49R9	Resistor Chip SMD 0201, 1/20W 1% (28319)
17	R3, R5, R6	3	100K	YAGEO CORP	RC0201JR-07100KL	RES 100K OHM 1/20W 5% 0201 SMD
18	R4	1	22R	YAGEO CORP	RC0201JR-0722RL	RES 22 OHM 1/20W 5% 0201 SMD
19	R7	1	1.2K	YAGEO CORP	RC0201JR-071K2L	RES 1.2K OHM 1/20W 5% 0201 SMD
20	R8	1	2.2K	YAGEO CORP	RC0201JR-072K2L	RES 2.2K OHM 1/20W 5% 0201 SMD
21	R9, R10	2	10 k	ROHM	MCR006YZPJ103+	Thick film resistor, SMD 0201, 1/20W, 5%
22	U1	1	AT86RF233-ZU	ATMEL	AT86RF233-ZU	2.4GHz Transceiver
23	U2	1	SE2431L-R	SiGe Semiconductor	SE2431L-R	2.4GHz Zigbee/802.15.4 Front End Module
24	U3	1	AT24MAC602-STUM-T	ATMEL	AT24MAC602-STUM-T	2kbit Serial (TWI) EEPROM, AT24C02B, 1.8-5V
25	Z1	1	ATZB-RF-233-1-C	ATMEL	ATZB-R-F-3-1-C	ZigBit with AT86RF233
26	Z2	1	EMI Shield	DUFU INDUSTRIES SDN BHD		EMI Shield ZigBit RF212B
27	L2	0	3.3nH	Murata	LQP03TN3N3C00D	Chip Inductor, 3.3 nH, +/-0.2nH, 0201

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Approved

Notes