

MRF89XAM9A Module Rev. 1
 915 MHz
 Last Revised: March 31, 2011

Qty	Designator	Value	Description	Manufacturer	Manufacturer Part Number	Comments	Distributor	Distributor Part Number
1	C1	0.047 uF	Capacitor, Ceramic, 10V, +/-10%, X7R, SMT 0402	Murata Electronics North America	GRM155R71A473KA01D		Digi-Key	490-1316-2-ND
1	C2	0.22 uF	Capacitor, Ceramic, 16V, +/-10%, X7R, SMT 0402	Murata Electronics North America	GRM155R71C224KA12D		Digi-Key	490-5418-2-ND
1	C3	1 uF	Capacitor, Ceramic, 6.3V, +/-10%, X5R, SMT 0603	Murata Electronics North America	GRM188R60J105KA01D		Digi-Key	490-1550-2-ND
1	C4	30 pF	Capacitor, Ceramic, 25V, +/-5%, UHI-Q NP0, SMT 0402	Johanson Technology	250R07S300JV4T	do not substitute	Digi-Key	712-1296-2-ND
1	C5	1.8 pF	Capacitor, Ceramic, 50V, +/-0.1 pF, UHI-Q NP0, SMT 0402	Johanson Technology	500R07S1R8BV4	do not substitute	Digi-Key	712-1271-2-ND
1	C7	33 pF	Capacitor, Ceramic, 50V, +/-5%, C0G, SMT 0402	Murata Electronics North America	GRM1555C1H330JZ01D		Digi-Key	490-3220-2-ND
1	C8	0.1 uF	Capacitor, Ceramic, 16V, +/-10%, X7R, SMT 0402	Murata Electronics North America	GRM155R71C104KA88D		Digi-Key	490-3261-2-ND
1	C9	680 pF	Capacitor, Ceramic, 50V, +/-5%, C0G, SMT 0402	Murata Electronics North America	GRM1555C1H681JA01D		Digi-Key	490-3240-2-ND
1	C10	0.01 uF	Capacitor, Ceramic, 16V, +/-10%, X7R, SMT 0402	Murata Electronics North America	GRM155R71C103KA01D		Digi-Key	490-1313-2-ND
1	C11	1.0 pF	Capacitor, Ceramic, 50V, +/-0.1 pF, UHI-Q NP0, SMT 0402	Johanson Technology	500R07S1R0BV4	do not substitute	Digi-Key	712-1266-2-ND
1	C12	0.9 pF	Capacitor, Ceramic, 50V, +/-0.1 pF, UHI-Q NP0, SMT 0402	Johanson Technology	500R07S0R9BV4	do not substitute	Digi-Key	712-1251-2-ND
1	FL1	TA0281A	SAW Filter	Tai-saw Technology	TA0281A		Tai-saw	TA0281A
1	L1	10 nH	Inductor, Ceramic, +/-5%, SMT 0402	Johanson Technology	L-07C10NV6T	do not substitute	Digi-Key	712-1407-2-ND
1	L2	100 nH	Inductor, Ceramic, +/-5%, SMT 0402	Johanson Technology	L-07CR10JV6T	do not substitute	Digi-Key	712-1423-2-ND
1	L3	5.6 nH	Inductor, Wirewound, +/-5%, SMT 0402	Johanson Technology	L-07W5N6JV4T	do not substitute	Digi-Key	L-07W5N6JV4T-ND
1	L4	5.6 nH	Inductor, Wirewound, +/-5%, SMT 0402	Johanson Technology	L-07W5N6JV4T	do not substitute	Digi-Key	L-07W5N6JV4T-ND
1	L6	10 nH	Inductor, Ceramic, +/-5%, SMT 0402	Johanson Technology	L-07C10NV6T	do not substitute	Digi-Key	712-1407-2-ND
1	R1	1 ohm	Resistor, 1%, +/-100 ppm/C, SMT 0402	Vishay/Dale	CRCW04021R00FKED		Digi-Key	541-1.00LLTR-ND
1	R2	100K ohm	Resistor, 5%, +/-100 ppm/C, SMT 0402	Yageo	RC0402JR-07100KL		Digi-Key	311-100KJRTR-ND
1	R3	6.8K ohm	Resistor, 1%, +/-100 ppm/C, SMT 0402	Yageo	RC0402FR-076K8L		Digi-Key	311-6.80KLRTR-ND
1	U1	MRF89XA	Transceiver	Microchip	MRF89XAT-I/ST		Microchip Direct	MRF89XAT-I/ST
1	X1	12.800 MHz	Crystal, +/-10 ppm, 15 pF, ESR 100 ohms, SMT 5x3.2mm	Abracon	ABM3B-155-12.800MHz-T		Digi-Key	300-8199-1-ND