

Features:
 • For WLAN devices using WiFi (802.11) Bluetooth® and ZigBee™ • Omni-Directional radiation pattern provides broad 360° coverage • One-quarter wavelength dipole configuration (one-eighth for W1043)
 • Reverse SMA (Female) • Polarization: Vertical • Radiation: Omni • Color: Black

B

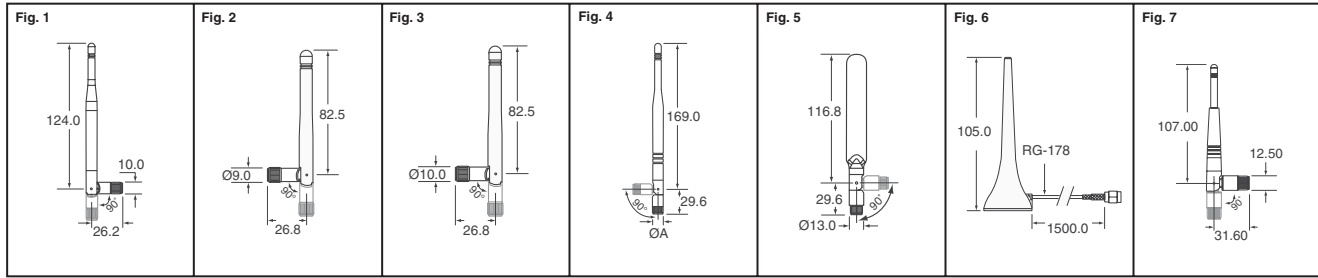


Fig.	Frequency	Gain (dBi)	Impedance (NOM)	VSWR	Dim. A (mm)	Digi-Key Part No.	Price Each			Pulse Part No.	
							1	10	100		
1	2.4 - 2.5GHz	3.2	50Ω	≤1.9	—	553-1310-ND	3.15	2.20	1.81	1.61	W1027
2	2.4 - 2.5GHz	2.0	50Ω	≤2.0	—	553-1471-ND†	3.49	2.48	2.04	1.82	W1010
3	2.4 - 2.5GHz	2.0	50Ω	≤2.0	—	553-1309-ND	2.85	1.96	1.60	1.43	W1030
4	2.4 - 2.5GHz 2.4 - 2.5GHz 902 - 928MHz	3.2	50Ω	≤2.0	12.5	553-1311-ND	3.72	2.69	2.21	1.97	W1037
		4.9	50Ω	≤2.0	12.5	553-1476-ND	4.62	3.38	2.76	2.50	W1038
		3.0	50Ω	≤2.0	14.0	553-1474-ND	5.26	3.90	3.23	2.95	W1063
5	2.4 and 5.0GHz	2.0	50Ω	≤2.0	—	553-1313-ND*	4.34	3.18	2.59	2.34	W1043
6	2.4 and 5.0GHz	2.0	50Ω	≤2.0	—	553-1472-ND*	6.71	5.04	4.20	3.92	W1045
7	2.4 - 2.5GHz	2.0	50Ω	≤2.0	—	553-1475-ND	3.49	2.48	2.04	1.82	W1034

* Dual-band, blade style antenna † Standard SMA (Male) Connector



Radios Inc. provides receiver and transmitter modules based on the Micrel RF line of products for applications like keyless entry, remote access, periodic data transfer, and many more. The relay modules provide a decoder along with the receiver IC, allowing for control of powered systems remotely. The handheld transmitters provide a 2-button interface for remote communication with the desired receiver with the appropriate decoder. The HHDS-ML development systems provide an evaluation environment for range, firmware, and electrical testing. The DS-ML development systems include a breadboarding area and higher functionality testing of the devices. The HHDS-ML and DS-ML allow for development with any of the pinned receiver/transmitter modules, which are purchased separately.

Frequency (MHz)	Description	Package	Digi-Key Part No.	1	Price Each 25	100	Radios Inc. Part No.
Receiver Modules							
433	Receiver Module OOK	18-DIP	694-1000-ND	6.65	6.09	5.13	MRX-001-433DR-B
	Receiver Module ASK/OOK	18-DIP	694-1001-ND	6.55	6.00	5.05	MRX-010-433DR-B
	Receiver Module OOK	18-DIP	694-1002-ND	6.56	6.00	5.06	MRX-011-433DR-B
	Receiver Module OOK	18-DIP	694-1003-ND	6.53	5.98	5.04	MRX-002-433DR-B
	Receiver Module OOK with SAW Filter and Low Noise Amp (LNA)	24-DIP	694-1004-ND	11.09	10.15	8.55	MRX-002SL-433DR-B
	Receiver Module OOK	18-DIP	694-1007-ND	6.53	5.98	5.04	MRX-007-433DR-B
	Receiver Module OOK	18-DIP	694-1008-ND	5.89	5.39	4.54	MRX-008-433DR-B
	Receiver Module OOK	18-DIP	694-1009-ND	6.53	5.98	5.04	MRX-009-433DR-B
	Receiver Module OOK with SAW Filter and Low Noise Amp (LNA)	24-DIP	694-1010-ND	9.37	8.58	7.23	MRX-009SL-433DR-B
	915	Receiver Module OOK	18-DIP	694-1005-ND	7.13	6.53	5.50
	Receiver Module OOK with SAW Filter and Low Noise Amp (LNA)	24-DIP	694-1006-ND	10.27	9.40	7.93	MRX-005SL-915DR-B
Transmitter Modules							
433	Transmitter Module OOK	18-DIP	694-1011-ND	6.05	5.54	4.67	MTX-102-433DR-B
	Transmitter Module ASK/FSK	24-DIP	694-1013-ND	15.04	13.76	11.60	MTX-405-433DR-B
915	Transmitter Module OOK/ASK	18-DIP	694-1012-ND	7.30	6.69	5.64	MTX-103-915DR-B
Transceiver Module							
915	Transceiver Module FSK	24-DIP	694-1014-ND	18.76	17.17	14.47	MXR-505-915DR-B
Remote Control Receiver Modules							
—	Remote Control Receiver Module, 3-Relay Radios Inc Decoder	—	694-1015-ND	40.47	—	—	RCR-ML-010RI-3
	Remote Control Receiver Module, 3-Relay Keeloq Decoder	—	694-1016-ND	40.47	—	—	RCR-ML-010KL-3
	Remote Control Receiver Module, 3-Relay Holtek Decoder	—	694-1017-ND	40.75	—	—	RCR-ML-010HT-3
Handheld Transmitters							
433	2-Button Keyfob Transmitter, Radios Inc Encoder	—	694-1018-ND	14.84	—	—	HHTX-102-433RI-2B
	2-Button Keyfob Transmitter, Keeloq Encoder	—	694-1019-ND	15.60	—	—	HHTX-102-433KL-2B
	2-Button Keyfob Transmitter, Holtek Encoder	—	694-1020-ND	16.32	—	—	HHTX-102-433HT-2B
915	2-Button Keyfob Transmitter, Radios Inc Encoder	—	694-1021-ND	15.25	—	—	HHTX-103-915RI-2B
	2-Button Keyfob Transmitter, Keeloq Encoder	—	694-1022-ND	16.02	—	—	HHTX-103-915KL-2B
	2-Button Keyfob Transmitter, Holtek Encoder	—	694-1023-ND	16.73	—	—	HHTX-103-915HT-2B
RF Development Systems for Modules							
—	Microchip PIC MCU, 1-Unit	—	694-1024-ND*	68.97	—	—	HHDS-ML-P1
	Microchip PIC MCU, 2-Unit	—	694-1025-ND*	108.17	—	—	HHDS-ML-P2
	Texas Instrument MSP430 MCU, 1-Unit	—	694-1026-ND*	68.97	—	—	HHDS-ML-M1
	Texas Instrument MSP430 MCU, 2-Unit	—	694-1027-ND*	108.17	—	—	HHDS-ML-M2
	Microchip PIC MCU, 1-Unit	—	694-1028-ND*	108.17	—	—	DS-ML-P1
—	Microchip PIC MCU, 2-Unit	—	694-1029-ND*	214.17	—	—	DS-ML-P2
	Texas Instrument MSP430 MCU, 1-Unit	—	694-1030-ND*	108.17	—	—	DS-ML-M1
	Texas Instrument MSP430 MCU, 2-Unit	—	694-1031-ND*	214.17	—	—	DS-ML-M2

*Requires the purchase of desired transmitter/receiver module(s) to operate

Free shipping on orders over £50! All prices are in British pound sterling and include duties.
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