



Smart Technology. Delivered.

PDQ244910

2400 to 2500 MHz/4900 to 5950 MHz

4-port MIMO Directional Antenna

PDQ244910 DUAL-BAND DIRECTIONAL ANTENNA

The Laird patent-pending PDQ244910 antenna is a 4-port dual-band, dual polarized directional antenna for use in 802.11n MIMO indoor and outdoor applications. The antenna is an excellent choice for high density Wi-Fi applications where adjacent interference is of concern. The dual-band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2400-2500 MHz and 4900-5950 MHz bands. In addition, the uniform and symmetrical radiation patterns provide a high-level signal density into engineered coverage areas.

FEATURES

- Ultra-thin, compact ASA UV stable white housing
- Four radiating elements optimized for indoor and outdoor 802.11n MIMO applications
- Articulating arm mount can be anchored directly to a vertical surface or mast mounted and oriented for optimal signal radiation.
- Both horizontal and vertical polarization for multipath mitigation
- IP67-rated and RoHS-compliant
- High density Wi-Fi
- Sports Entertainment- Outdoor stadiums, arenas, and convention centers
- Hospitality – Hotels and casinos
- Transportation – Airport, bus, and train terminals
- Retail – Stores and indoor pedestrian malls
- Education – Libraries and museums



PARAMETERS	SPECIFICATIONS	
Model	PDQ244910	
Number of Ports	4	
Frequency Bands, MHz	2400-2500	4900-5950
Peak Gain (Avg), dBi	10.1	9.9
Peak Gain (Max), dBi	10.8	10.5
Max Gain ± 30° above Horizon, dBi	NA	5.8
Azimuth 3 dB Beamwidth, Typ (V-Pol/H-pol)	50°/40°	48°/40°
Elevation 3 dB Beamwidth, Typ (V-Pol/H-pol)	40°/50°	40°/48°
VSWR, Avg	<1.3:1	
VSWR, Max	< 2.0 : 1	
Port-to-Port Isolation, Avg	26 dB	33 dB
Port-to-Port Isolation, Max	20 dB	
Nominal Impedance	50 Ω	
Polarization	2 Ports Vertical, 2 Ports Horizontal	
Front-to-Back Ratio	>12 dB	
Maximum Input Power (per port)	10 Watts (ambient temperature of 25°C/77°F)	
Dimensions (W x H x D)	327 mm x 195 mm x 41 mm (12.9 in. x 7.7 in. x 1.6 in.)	
Weight (Weight with mount)	0.8 kg/1.8 lbs. (1.5 kg/3.3 lbs.)	
Mounting	Articulating mount, Flush mount, or Mast (44-57 mm)	
Cable Type	Low Temperature, Plenum Rated Cable	
Wind Survival	160 km/h (100 mph)	
Wind Gust Survival	220 km/h (136 mph)	
Ingress Protection	IP67	
Operating Temperature	-40°C to +70°C (-40°F to 158°F)	
Storage Temperature	-40°C to +85°C (-40°F to 185°F)	
Radome/Baseplate Material	ASA, White	
Material Compliance	RoHS Compliant	

PART NUMBER	CABLE LENGTH	CONNECTOR
PDQ244910-91NF	4x- 91 cm (3.0 ft.)	Type N female
PDQ244910-91NM	4x- 91 cm (3.0 ft.)	Type N male

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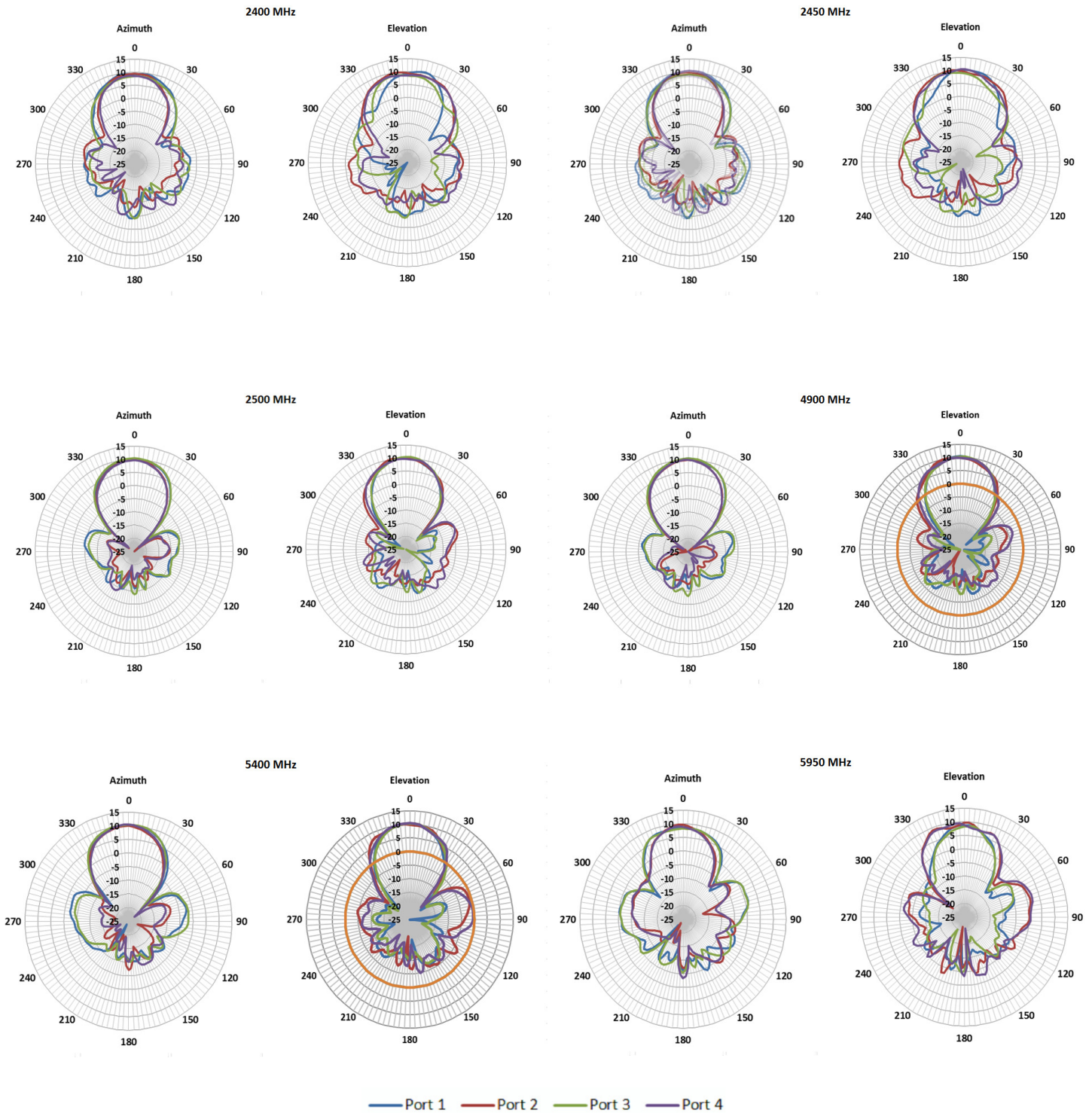


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RADIATION PATTERNS

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