



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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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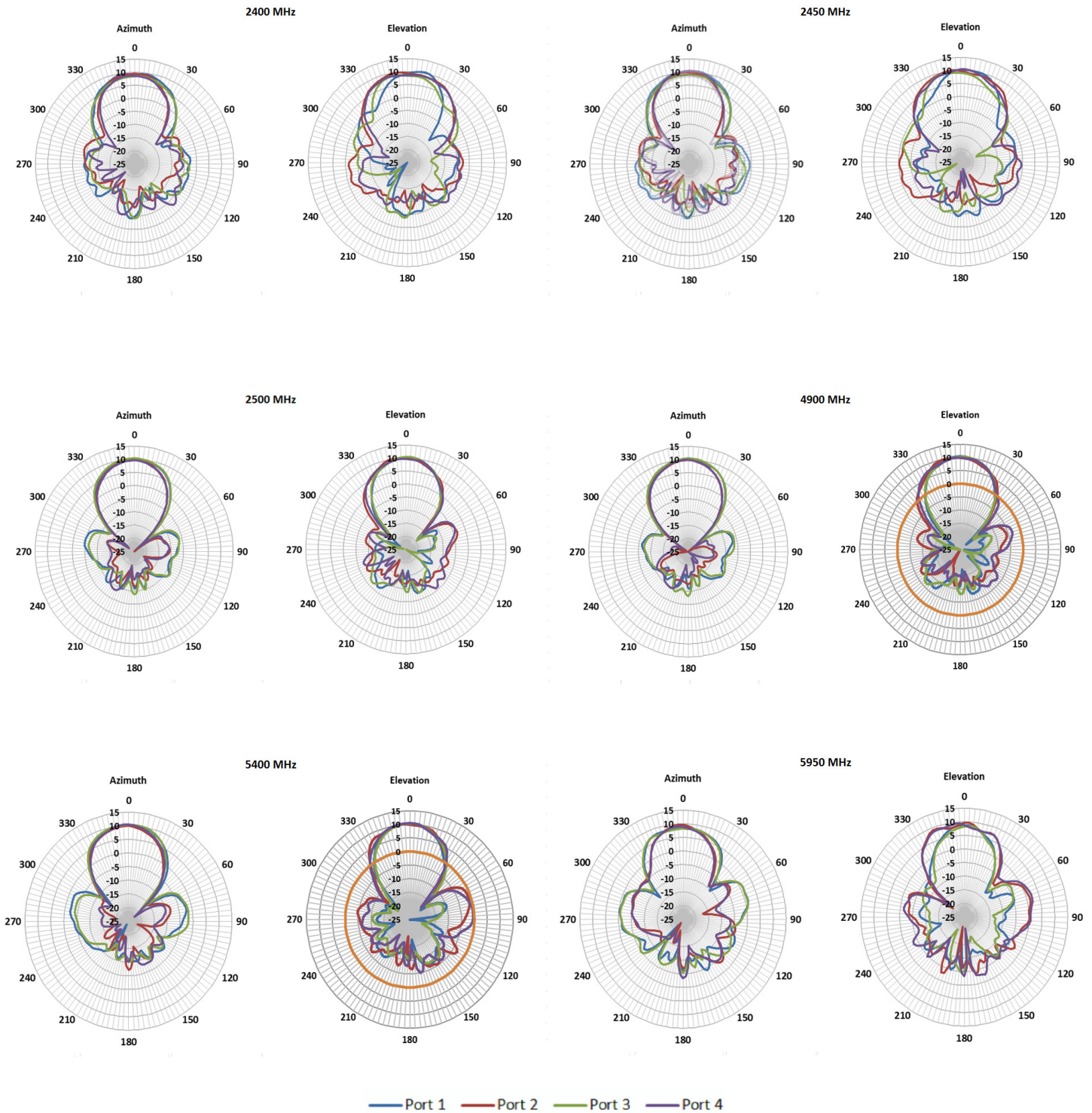


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RADIATION PATTERNS

PDQ244910

2400 to 2500 MHz/4900 to 5950 MHz

4-port MIMO Directional Antenna



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