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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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PDQ244915

2400 to 2500 MHz/4900 to 5950 MHz 4-port MIMO Directional Antenna

4-PORT MIMO DUAL-BAND, DUAL POLARIZED DIRECTIONAL ANTENNA

The Laird patent pending PDQ244915 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 WiFi 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 will provide a high-level signal density into engineered coverage areas.



Patent Pending
PDQ244915



Patent Pending
PDQ244915 w/standard
articulating mount

FEATURES

- Ultra thin, compact ASA UV stable white housing
- Articulating arm mount can be anchored directly to a vertical surface or mast mounted and oriented for optimal signal radiation.
- Four radiating elements optimized for indoor & outdoor 802.11 MIMO applications
- Both horizontal & vertical polarization for multipath mitigation
- IP67 Rated and RoHS compliant

MARKETS

- High density WiFi
- Sports Entertainment - outdoor stadiums, arenas & convention centers
- Hospitality – hotels & casinos
- Transportation – airport, bus, & train terminals
- Retail – stores & indoor pedestrian malls
- Education – libraries & museums

PARAMETER	SPECIFICATIONS	
Number of Ports	Four (4)	
Polarization	2-ports Vertical	and 2-ports Horizontal
Frequency Bands, MHz	2400-2500	4900-5950
Peak Gain, dBi (Typical)	10.7	13.4
Peak Gain, dBi (Max)	11.1	15.0
Max Gain $\pm 30^\circ$ above Horizon, dBi	N/A	4.7
Azimuth Plane 3-dB Beamwidth V-pol, Typical	48°	21°
Azimuth Plane 3-dB Beamwidth H-pol, Typical	50°	21°
Elevation Plane 3-dB Beamwidth V-pol, Typical	48°	18°
Elevation Plane 3-dB Beamwidth H-pol, Typical	47°	20°
VSWR, Typical	< 1.5:1	< 2.0:1
VSWR, Max	< 2.0:1	< 2.0:1
Nominal Impedence	50 Ω	
Port-to-Port Isolation, dB (Typical)	> 40	> 39
Port-to-Port Isolation, dB (Maximum)	> 30	> 30
F/B Ratio	> 25 dB	
Input Power, Max (Ambient Temp)	10 W (25°C/77°F)	
Operating Temperature	-30° C to +70° C (-22°F to 158°F)	
Storage Temperature	-40°C to +85°C (-40°F to +185°F)	
IP Dust & Water Ingress Rating	IP67	
Dimensions (length x width x height)	373.3 x 411.4 x 35.8 mm	
Cable	Plenum Rated, CMP Rated for Plenum per NFPA 262	
Weight	1.58 Kg (3.48 lb), 2.28 kg (5.03 lb- w/HDMNT)	
Mounting	Mast (44-57 mm) or Concrete Wall (HDMNT kit)	
Radome/Baseplate Material	ASA, White, UV Stable	
Material Compliance	RoHS Compliant	

PART NUMBER	CABLE LENGTH	CONNECTOR
PDQ244915-91NF	4x- 91 cm (3.0 ft)	4x - Type N-Female
PDQ244915-91NM	4x- 91 cm (3.0 ft)	4x - Type N-Male
PDQ244915-FNF	N/A	4x - Type N-Female

Americas: +1.847 839.6925
IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941
IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127
IAS-AsiaSales@lairdtech.com

www.lairdtech.com

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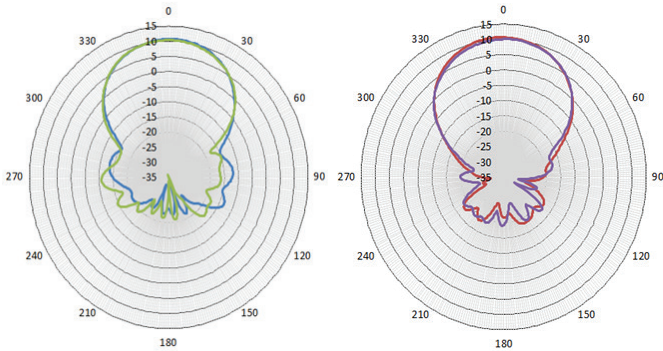
PDQ244915

2400 to 2500 MHz/4900 to 5950 MHz

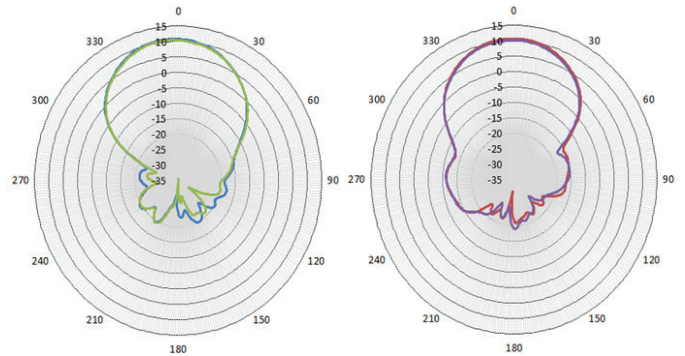
4-port MIMO Directional Antenna

RADIATION PATTERNS

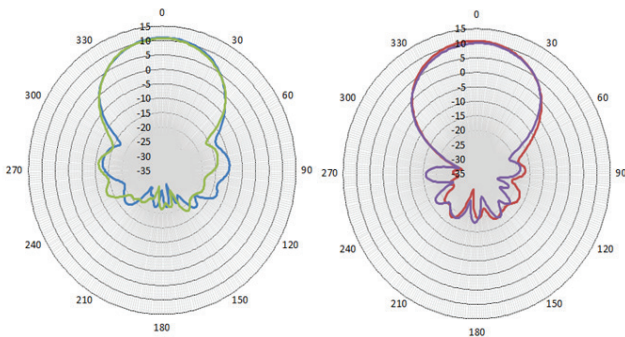
Azimuth Radiation Pattern at 2400 MHz



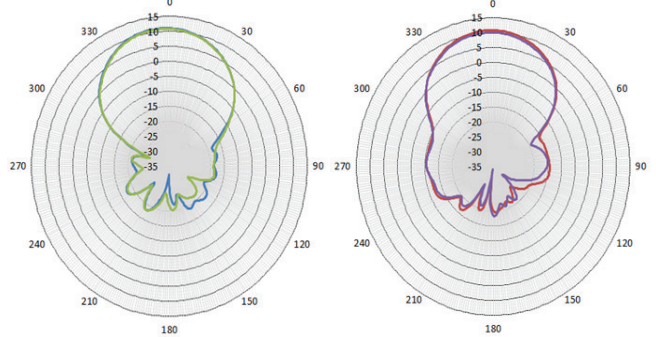
Elevation Radiation Pattern at 2400 MHz



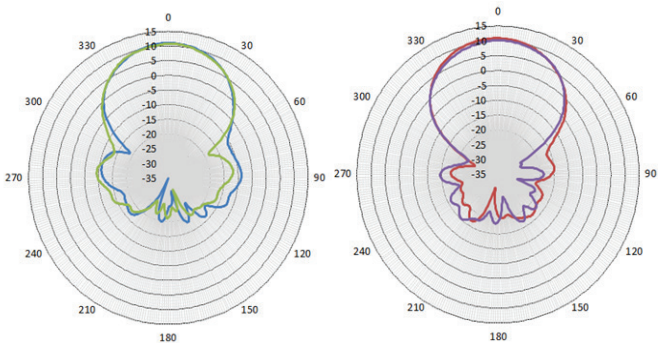
Azimuth Radiation Pattern at 2450 MHz



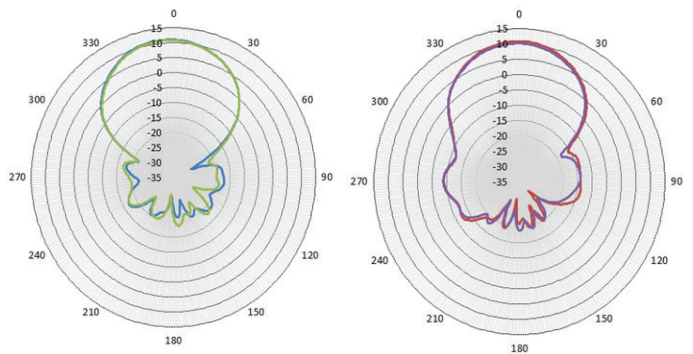
Elevation Radiation Pattern at 2450 MHz



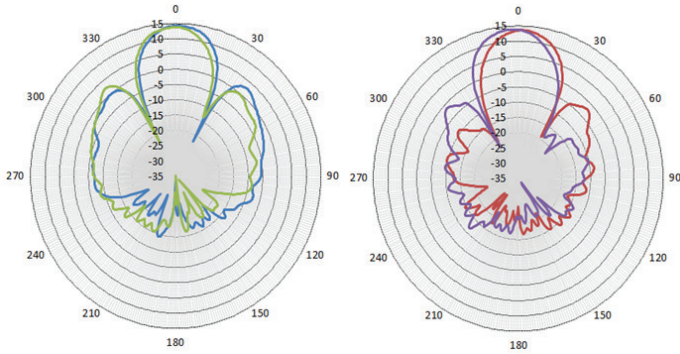
Azimuth Radiation Pattern at 2500 MHz



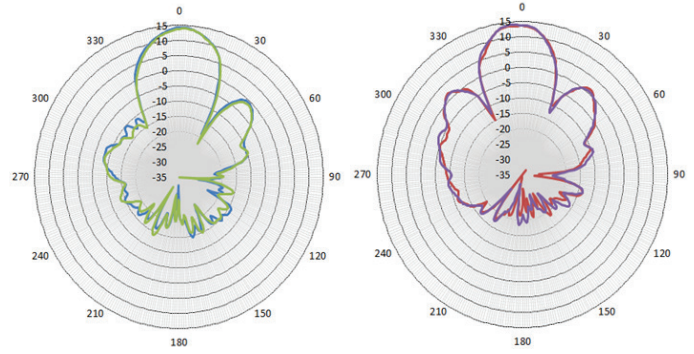
Elevation Radiation Pattern at 2500 MHz



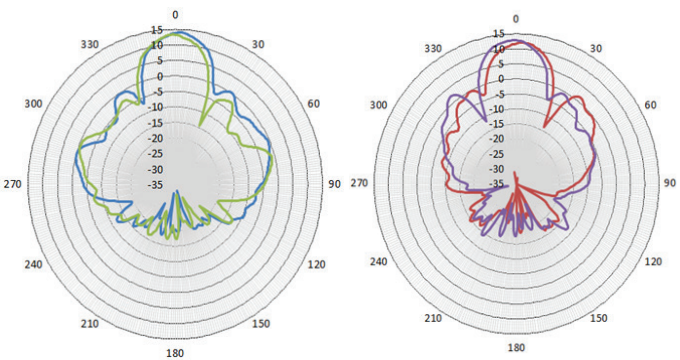
Azimuth Radiation Pattern at 4900 MHz



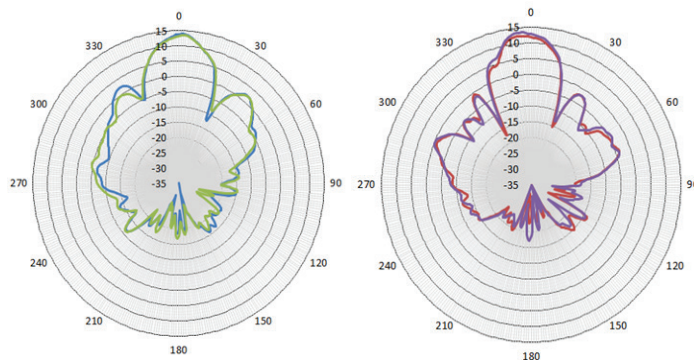
Elevation Radiation Pattern at 4900 MHz



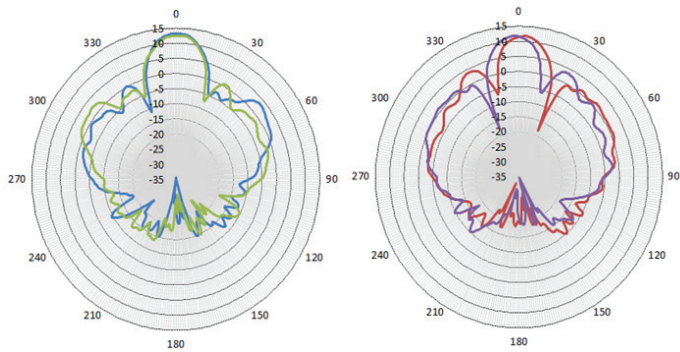
Azimuth Radiation Pattern at 5500 MHz



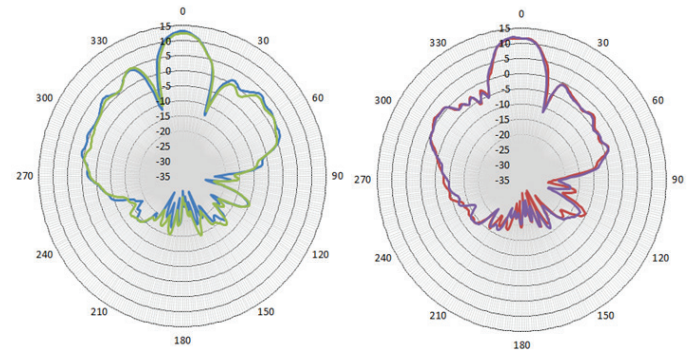
Elevation Radiation Pattern at 5500 MHz



Azimuth Radiation Pattern at 5950 MHz



Elevation Radiation Pattern at 5950 MHz



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