



*Patent pending
PDQ244915*

*Patent pending PDQ244915 w/
standard articulating mount*

The Laird Connectivity's patent pending PDQ244915 antenna is a four-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 AND BENEFITS

- 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 and outdoor 802.11 MIMO applications
- Horizontal and vertical polarization for multipath mitigation

APPLICATIONS

- High density Wi-Fi
- Outdoor stadiums, arenas, and convention centers
- Hotels and casinos
- Airport, bus, and train terminals
- Retail stores and indoor pedestrian malls
- Libraries and museums

ELECTRICAL SPECIFICATIONS

Model Name	PDQ244915	
Number of Ports	4	
Operating Frequency (MHz)	2400-2500	4900-5950
VSWR – Avg	1.5:1	2.0:1
VSWR – Max	<2.0:1	<2.0:1
Peak Gain – Avg. (dBi)	10.7	13.4
Peak Gain – Max. (dBi)	11.1	15.0
Max. Gain $\pm 30^\circ$ above Horizon (dBi)	-	4.7
Port-to-Port Isolation – Avg. (dB)	>40	>39
Port-to-Port Isolation – Max. (dB)	>30	>30
Nominal Impedance (Ohms)	50	
Max Power - Ambient 25°C (W)	10	
Polarization	Vertical (2 ports), Horizontal (2 ports)	
Vertical Plane 3 dB Beamwidth – V-pol	48°	18°
Vertical Plane 3 dB Beamwidth – H-pol	47°	20°
Horizontal Plane 3 dB Beamwidth – V-pol	48°	21°
Horizontal Plane 3 dB Beamwidth – H-pol	50°	21°
Front-to-Back Ratio (dB)	>25	

MECHANICAL SPECIFICATIONS

Dimensions – mm (inches)	373.3 x 411.4 x 35.8 (14.7 x 16.2 x 1.41)
Weight – kg (lbs.)/Weight w/ mount – kg (lbs.)	1.58 (3.48)/2.28 (5.03)
Cable Type	Plenum rated, CMP rated for Plenum per NFPA 262
Mounting	Mast (44-57 mm) or Concrete Wall (HDMNT kit)
Radome/Baseplate Material	ASA, White, UV Stable

ENVIRONMENTAL SPECIFICATIONS

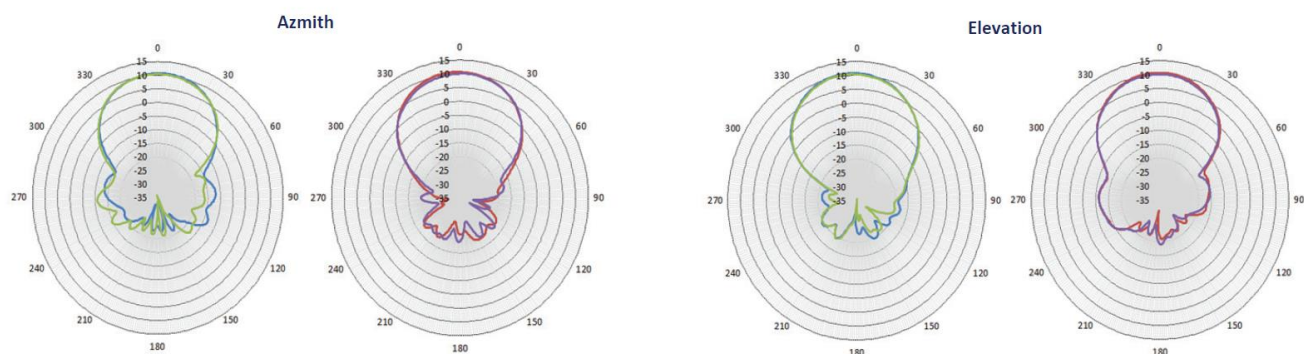
Operating Environment (Indoor or Outdoor)	Indoor and Outdoor
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

CONFIGURATION

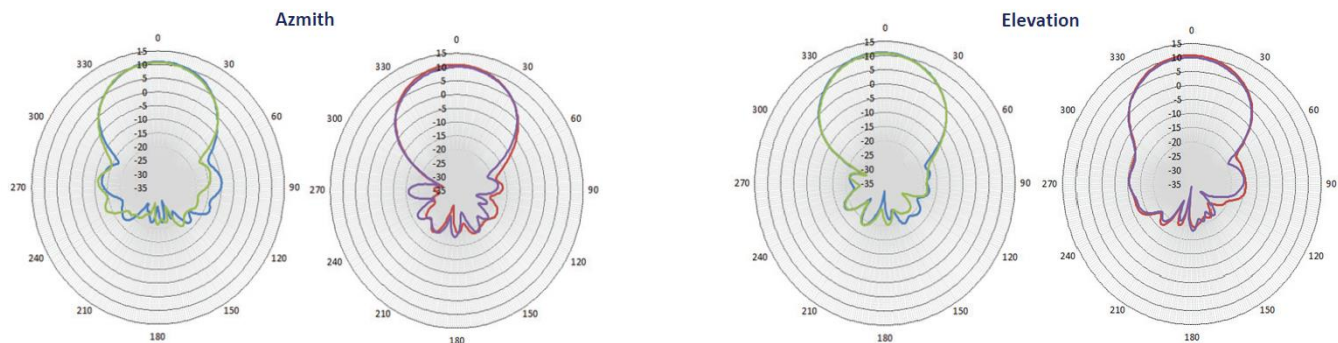
PART NUMBER	CABLE LENGTH	CONNECTOR
PDQ244915-91NF	4x- 91 cm (3.0 ft.)	4x – Type N-Female
PDQ244915-91NM	4x- 91 cm (3.0 ft.)	4x – Type N-Male
PDQ244915-FNF	N/A	4x – Type N-Female

RADIATION PATTERNS

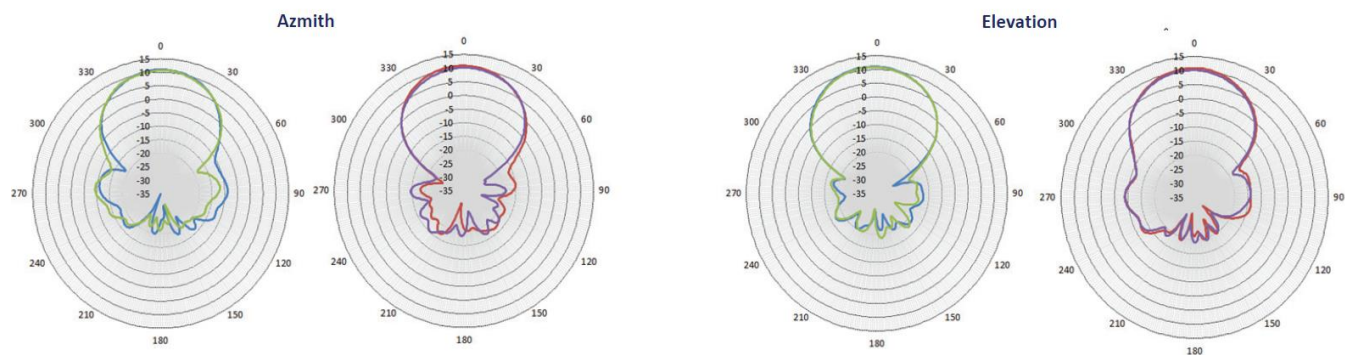
2400 MHz



2450 MHz

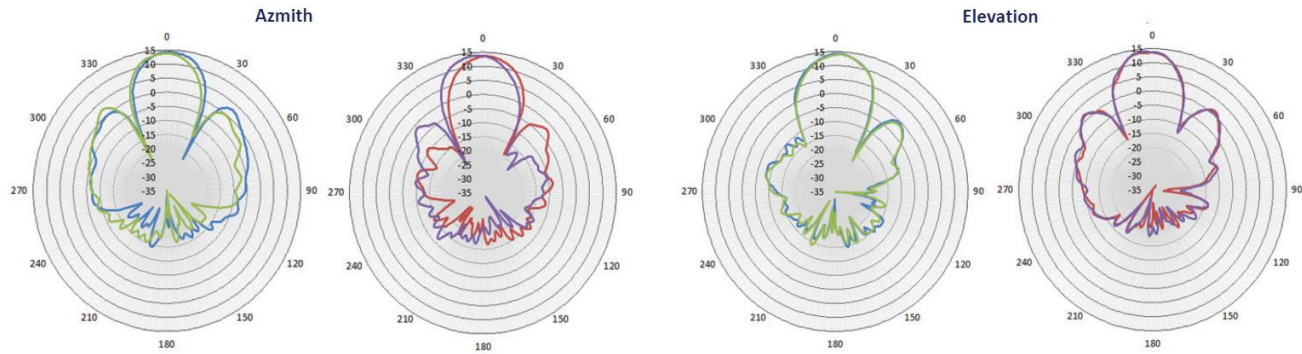


2500 MHz

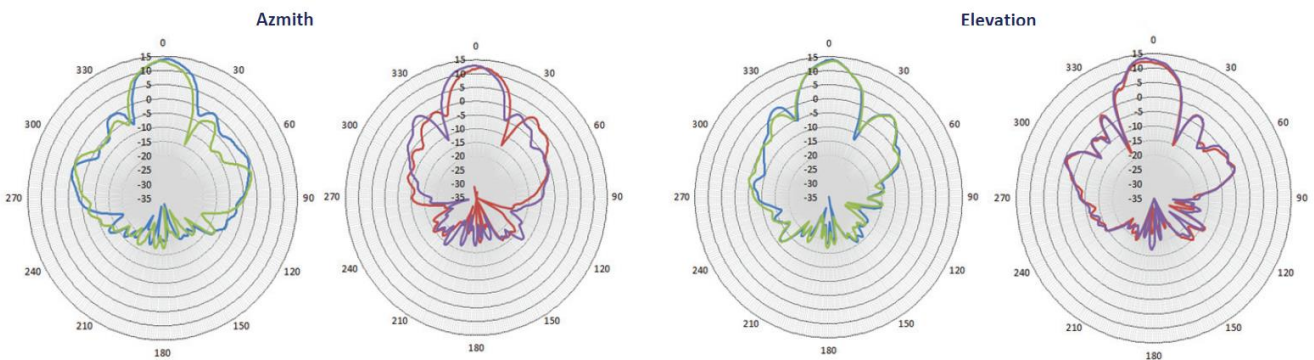


RADIATION PATTERNS

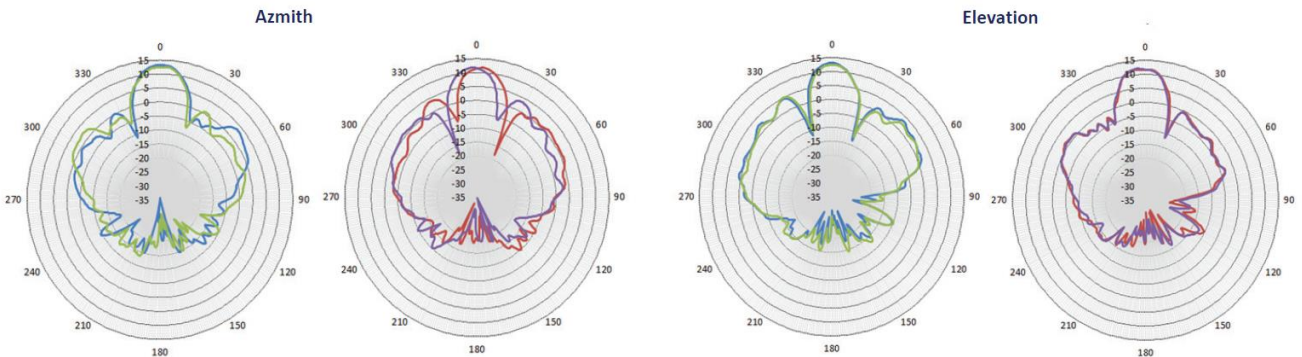
4900 MHz



5500 MHz



5950 MHz



✓RoHS

Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

Any information furnished by Laird Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2019 Laird Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trademarks or registered trademarks of Laird Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.

sales@lairdconnect.com
support@lairdconnect.com
www.lairdconnect.com

