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.

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Laird
Smart Technology. Delivered.™

PDQ24496

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

Standard Articulating Mount

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

The Laird patent pending PDQ24496 antenna is a 4-port dual-band, dual polarized directional panel 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 will provide a high-level signal density into engineered coverage areas.

FEATURES: RoHS

- Ultra thin, compact ASA UV stable white housing
- Four radiating elements optimized for indoor & outdoor 802.11n or 802.11ac MIMO applications
- Articulating arm mount can be anchored directly to a vertical surface or mast mounted & oriented for optimal signal radiation
- Both horizontal & vertical polarization for multipath mitigation
- IP-67 Rated and RoHS compliant

MARKETS/APPLICATIONS:

- 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	
Antenna Model	PDQ24496	
No. of Ports	4	
Frequency Bands, MHz	2400-2500	4900-5950
Average Peak Gain, dBi	6.4	4.8
Maximum Peak Gain, dBi	6.8	6.5
Max Gain ± 30° above Horizon, dBi	N/A	3.2
Azimuth 3 dB Beamwidth, Typ (V-pol/H-pol)	68°/63°	58°/57°
Elevation 3dB Beamwidth, Typ (V-pol/H-pol)	62°/71°	58°/56°
VSWR, Avg	1.5:1	1.3:1
VSWR, Max	<2.0:1	<2.0:1
Port-to-Port Isolation, Avg	43 dB	41 dB
Port-to-Port Isolation, Max	>30 dB	>30 dB
Nominal Impedance	50 Ω	
Polarization	2-ports Vertical, 2-ports Horizontal	
Front-to-Back Ratio	> 15 dB	
Maximum Input Power (per port)	1 W (ambient temp of 25°C/77°F)	
Dimensions	254 x 254 x 41 mm (10" x 10" x 1.6")	
Weight (w/out mount)	1.14 kg (2.50 lbs)	
Mounting	Articulating Mount, Mast or Flush Mount	
Cable Type	Low Temperature Plenum Rated Cable	
Wind Survival	200 km/h (125 mph)	
Wind Operational	160 km/hr (100 mph)	
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	Polycarbonate, UL94-V0, UV Stable White	
Ingress Protection	IP-67	
Material Compliance	RoHS Compliant	

MODEL NUMBER	CABLE LENGTH	CONNECTOR
PDQ24496-FNF	N/A	Fixed Type N Female
PDQ24496-91NF	4x- 91 cm (3.00 ft)	4x Type N Female
PDQ24496-91NM	4x- 91 cm (3.00 ft)	4x Type N Male

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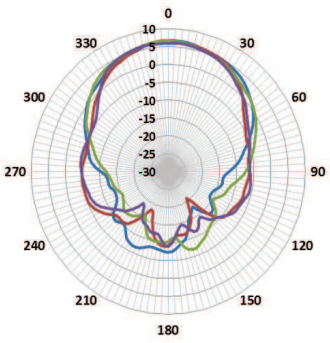
PDQ24496
4-Port Directional Antenna

RADIATION PATTERNS

Radiation Pattern at 2400 MHz

AZIMUTH PLANE



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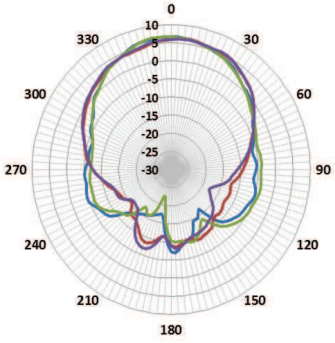
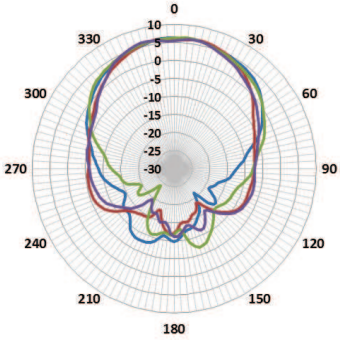


Radiation Pattern at 2450 MHz

AZIMUTH PLANE



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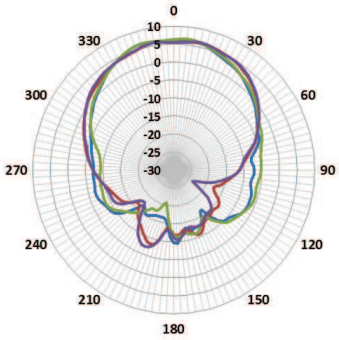
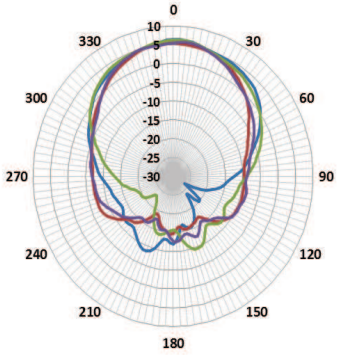


Radiation Pattern at 2500 MHz

AZIMUTH PLANE



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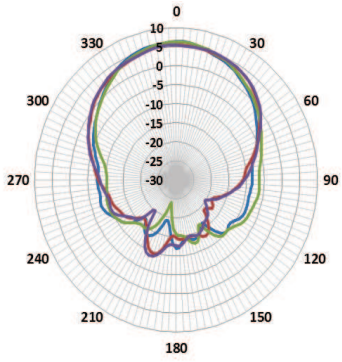
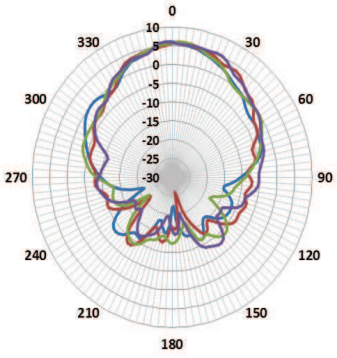


Radiation Pattern at 4900 MHz

AZIMUTH PLANE



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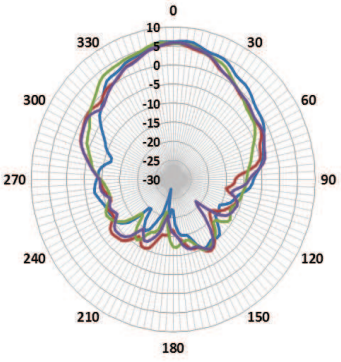
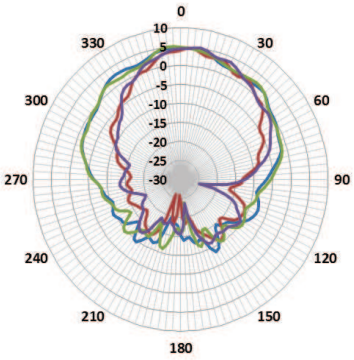


Radiation Pattern at 5400 MHz

AZIMUTH PLANE



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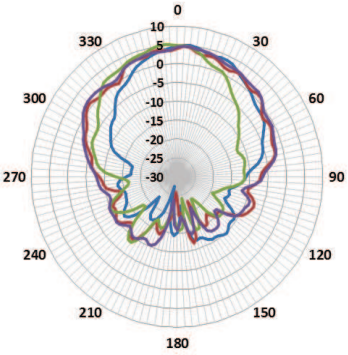
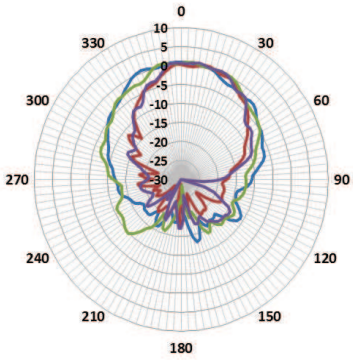


Radiation Pattern at 5950 MHz

AZIMUTH PLANE



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