



The Laird Connectivity PSQ24495 antenna is a four-port directional antenna for use in 802.11n MIMO applications. The antenna is an excellent choice for high density Wi-Fi applications where adjacent antenna interference is of concern. Equipped with two sets of slant +/-45-degree ports, the antenna takes advantage of both polarization and spatial separation to mitigate multipath issues.

Enclosed in a compact/low profile ASA, UV stable radome and equipped with an articulating arm that can be affixed to a mast or anchored directly to a vertical surface, the antenna can be oriented to take full advantage of the antenna's directionality. Uniform and symmetrical radiation patterns provide a high-level signal density into defined coverage zones. This antenna greatly enhances the performance of 802.11n systems where physical obstructions are anticipated. The dual band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2400-2490 MHz and 4900-6000 MHz bands.

### FEATURES AND BENEFITS

- 802.11n MIMO operation
- Low profile, wide band performance
- Two sets of slant  $\pm 45^\circ$  polarized radiating elements in a single solution
- Ideal for indoor and outdoor use
- Spatial separation mitigates multipath issues

### APPLICATIONS

- High density Wi-Fi
- Stadiums, arenas, convention centers
- Transport terminals
- Campuses
- Outdoor networks

### ELECTRICAL SPECIFICATIONS

Model Name	PSQ24495	
Number of Ports	4	
Operating Frequency (MHz)	2400-2490	4900-6000
VSWR – Avg	<1.6:1	<1.9:1
VSWR – Max	<2.0:1	<2.0:1
Peak Gain – Avg. (dBi)	5.5	6.0
Peak Gain – Max. (dBi)	6.6	7.7
Max. Gain $\pm 30^\circ$ above Horizon (dBi)	N/A	5.8
Port-to-Port Isolation – Typ. (dB)	>16	>21
Port-to-Port Isolation – Max. (dB)	>15	>20
Nominal Impedance (Ohms)	50	
Max Power - Ambient 25°C (W)	10	
Polarization	Slant $\pm 45^\circ$	
Vertical Plane 3 dB Beamwidth	85°	90°
Azimuth Plane 3 dB Beamwidth	110°	85°
Front-to-Back Ratio (dB)	>13	>20

### MECHANICAL SPECIFICATIONS

Dimensions – mm (inches)	202 x 200 x 40 (7.96 x 7.87 x 1.6)
Weight (without mount) – kg (lbs.)	0.698 (1.54)
Mounting	Articulating mast/wall mount
Cable Type	Low temperature plenum rated
Radome/Baseplate Material	ASA LURAN S778T

### ENVIRONMENTAL SPECIFICATIONS

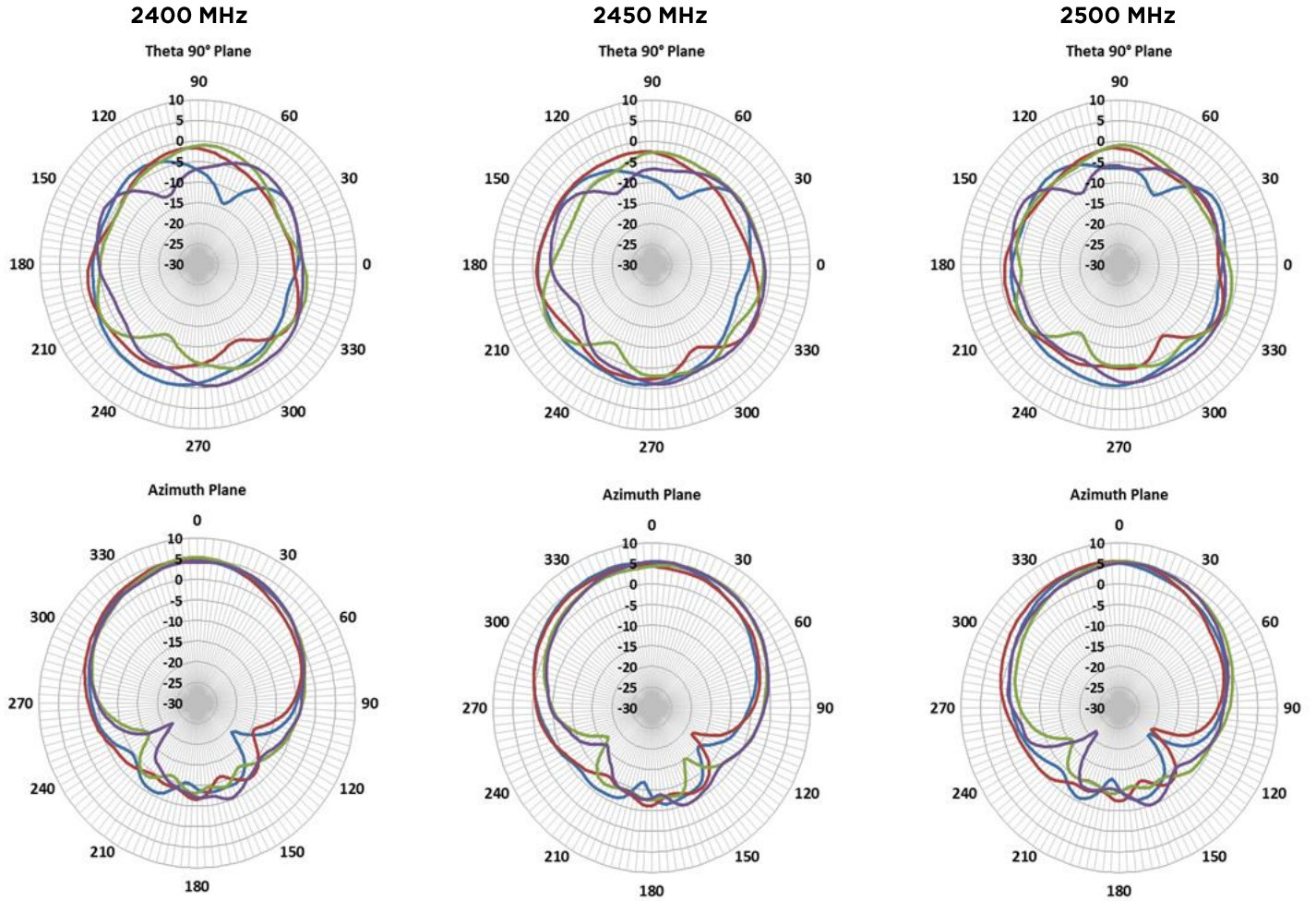
Operating Environment (Indoor or Outdoor)	Indoor or outdoor
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)
Wind Survival – km/hr (mph)	200 (125)
Wind Gust Survival – km/hr (mph)	266 (165)
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
PSQ24495-91NF	4x – 91 cm (3.00 ft.)	Type N-Female
PSQ24495-91NM	4x – 91 cm (3.00 ft.)	Type N-Male
PSQ24495-91RSM	4x – 91 cm (3.00 ft.)	Type SMA – Male Reverse Polarity

RADIATION PATTERNS

— Port 1 — Port 2 — Port 3 — Port 4

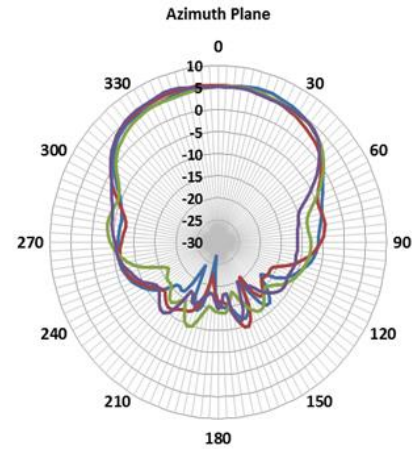
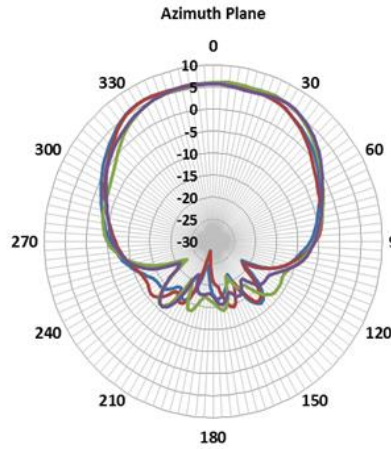
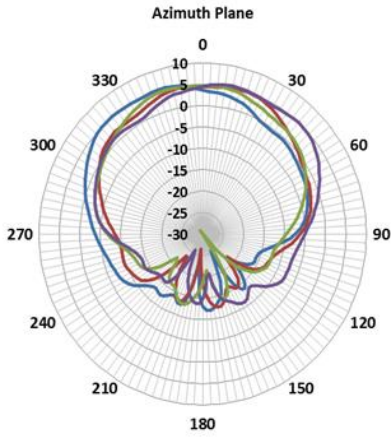
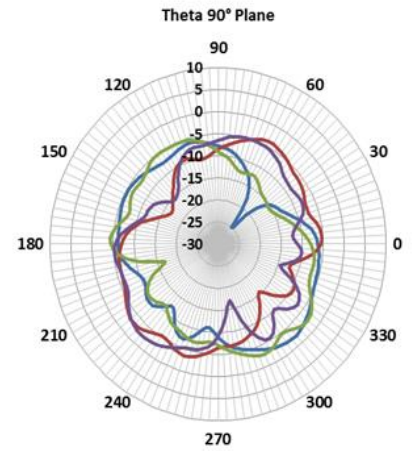
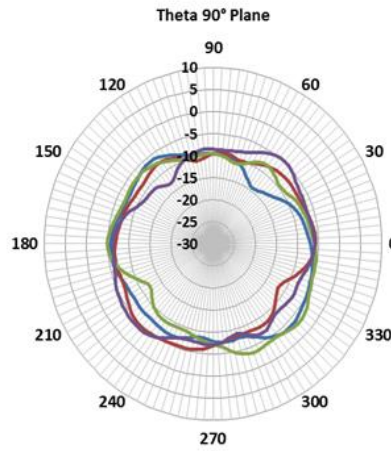
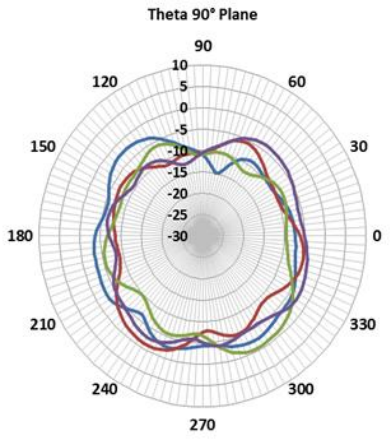


RADIATION PATTERNS

4900 MHz

5400 MHz

6000 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



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Antennas](#) category:*

*Click to view products by [Laird Connectivity](#) manufacturer:*

Other Similar products are found below :

[GAN30084EU](#) [930-033-R](#) [GW17.07.0250E](#) [1513563-1](#) [EXE902SM](#) [APAMPG-117](#) [MAF94383](#) [W3908B0100](#) [W6102B0100](#) [YE572113-30RSMM](#) [108-00014-50](#) [66089-2406](#) [SPDA17RP918](#) [A09-F8NF-M](#) [A09-F5NF-M](#) [RGFRA1903041A1T](#) [W3593B0100](#) [W3921B0100](#) [SIMNA-868](#) [SIMNA-915](#) [SIMNA-433](#) [W1044](#) [W1049B090](#) [A75-001](#) [WTL2449CQ1-FRSMM](#) [CPL9C](#) [EXB148BN](#) [0600-00060](#) [TRA9020S3PBN-001](#) [Y4503](#) [GD5W-28P-NF](#) [MA9-7N](#) [GD53-25](#) [GD5W-21P-NF](#) [C37](#) [MAF94051](#) [MA9-5N](#) [EXD420PL](#) [B1322NR](#) [QWFTB120](#) [MAF94271](#) [MAF94300](#) [GPSMB301](#) [FG4403](#) [AO-AGSM-OM54](#) [5200232](#) [MIKROE-2349](#) [WCM.01.0111](#) [MIKROE-2393](#) [MIKROE-2352](#)