



## FEATURES AND BENEFITS

- · Circularly polarized
- Low VSWR and axial ratio
- Rugged, ultra-heavy-duty construction
- IP67-rated
- Left-hand and right-hand CP versions
- Weather and UV resistant radome
- High performance in a small package
- Wide range of connector and cable options

# S9025PL/S9025PR

## Mini RFID Panel Antenna 902-928 MHz

S9025PL and S9025PR are high-performance RFID antennas and the only UHF RFID antenna available to the market that offers no-compromise performance in a small package. At only 5.2" square, the antenna offers a gain specification of 5.5 dBic and axial ratio better than 2 dB. In effect, the antenna is providing the performance one would expect of a much larger antenna. The antenna is not only mechanically robust but is less likely to be exposed to excessive damage by virtue of its reduced size.

## **APPLICATIONS**

- Warehouse
- · Distribution center
- Airports and hospitals
- · Transit terminals
- Conveyer belt

ELECTRICAL SPECIFICATIONS		
Antenna Model	S9025PR/S9025PL	
Operating Frequency (MHz)	902 - 928	
VSWR - Max	1.5:1	
Gain (dBic)	5.5	
Nominal Impedance (Ohms)	50	
Max Power - Ambient 25°C (W)	10	
Polarization	Circular RH or Circular LH	
Horizontal Plane 3 dB Beamwidth	100°	
Front-to-Back Ratio (dB)	8	
Axial Ratio - Typical (dB)	2.0	

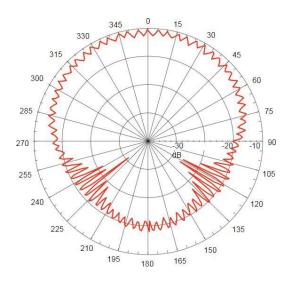
MECHANICAL SPECIFICATIONS		
Dimensions - length x width x height - mm (inches)	132.1 x 132.1 x 17.8 (5.2 x 5.2 x .71)	
Weight - kg (lbs.)	0.37 (0.8)	
Mounting Style	Threaded Stud 2x #10-32	
Radome Material	White High Strength PC	
Lightning Protection	DC Grounded	
Connector Type	Type N-Female, RP-TNC Female, RP-SMA-Female, SMA-Female	

ENVIRONMENTAL SPECIFICATIONS		
Operating Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)	
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)	
Impact Resistance	1 lb. ball drop, 24"	
Salt	MIL-STD-810	
Vibration	MIL-STD-810	
Shock	IEC 68-2-27	
Humidity	IEC 68-2-27	
Ingress Protection Rating	IP67	

## **CONFIGURATION**

PART NUMBER	POLARIZATION	CONNECTOR
S9025PLNF	LHCP	N Female
S9025PLRASMAF	LHCP	Right Angle, SMA Female
S9025PLRTN	LHCP	RP TNC
S9025PLSMF	LHCP	SMA Female
S9025PRNF	RHCP	N Female
S9025PRRASMAF	RHCP	Right Angle, SMA Female
S9025PRRTN	RHCP	RP TNC
S9025PRSMF	RHCP	SMA Female

## **RADIATION PATTERNS**



#### TE TECHNICAL SUPPORT CENTER

USA: +1 (800) 522-6752 +1 (905) 475-6222 Canada: Mexico: +52 (0) 55-1106-0800 +54 (0) 11-4733-2200 Latin/S. America: Germany: +49 (0) 6251-133-1999 UK. +44 (0) 800-267666 +33 (0) 1-3420-8686 +31 (0) 73-6246-999 Netherlands: +86 (0) 400-820-6015

Company Address: 3101 Fulling Mill Rd, Middletown, PA 17057, United States

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08/22 Original

