

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.

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

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

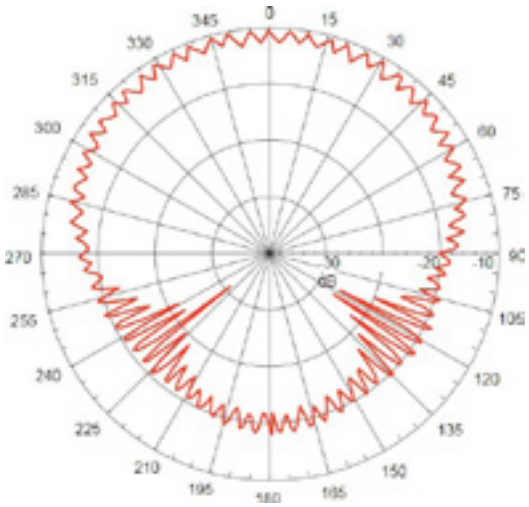
MECHANICAL SPECIFICATIONS	
Dimensions – length x width x height – mm (inches)	132.1 x 132.1 x 17.8 (5.2 x 5.2 x .71)
Weight – kg (lbs.)	0.37 (0.8)
Mounting Style	Threaded Stud 2x #10-32
Radome Material	White High Strength PC
Lightning Protection	DC Grounded
Connector Type	Type N-Female, RP-TNC Female,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



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