





## **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

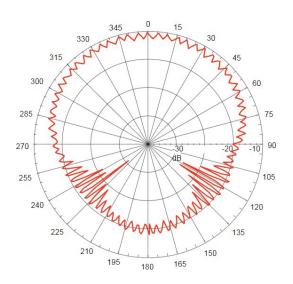
Dimensions - length x width x height - mm (inches)132.1 x 132.1 x 17.8 (5.2 x 5.2 x .71)Weight - kg (lbs.)0.37 (0.8)Mounting StyleThreaded Stud 2x #10-32Radome MaterialWhite High Strength PCLightning ProtectionDC GroundedConnector TypeType N-Female, RP-TNC Female, SMA-Female, SMA-Female	Meenanicae Si Een leanons	
Mounting Style Threaded Stud 2x #10-32   Radome Material White High Strength PC   Lightning Protection DC Grounded	Dimensions - length x width x height - mm (inches)	132.1 x 132.1 x 17.8 (5.2 x 5.2 x .71)
Radome Material White High Strength PC   Lightning Protection DC Grounded	Weight - kg (lbs.)	0.37 (0.8)
Lightning Protection DC Grounded	Mounting Style	Threaded Stud 2x #10-32
	Radome Material	White High Strength PC
Connector Type Type N-Female, RP-TNC Female, RP-SMA-Female, SMA-Female	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
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31(0)73-6246-999
China:	+86 (0) 400-820-6015

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

#### te.com

TE, and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE Connectivity 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 TE Connectivity 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 TE Connectivity product is installed. Useful lifetime of the original end product may vary but is not warrantied to exceed one (1) year from the original date of the end product purchase.

©2022 TE Connectivity. All Rights Reserved.

08/22 Original



