

Far-Field RAIN RFID Antenna

902-928 MHz



The Far-Field panel antennas by Laird are circularly polarized providing reception and transmission of signals in the 865-868 MHz frequency band. Laird's industry renowned design methodology achieves maximum efficiency and performance across the entire frequency band.

Both VSWR and axial ratios are excellent and allow the user to achieve the maximum performance for an antenna of this type. The antennas are housed in a heavy duty radome enclosure that can be directly wall mounted. An optional articulating mount allows either wall or mast mounting.

The antennas are offered with an integrated coax pigtail and a variety of connector types are available.

FEATURES AND BENEFITS

- Low profile
- Extremely low VSWR and axial ratio
- Weather and UV resistant radome
- Wide range of connector and cable options
- Left-hand and right-hand CP versions

ELECTRICAL SPECIFICATIONS

Impinj Part Number	IPJ-A1000-USA/IPJ-1001-USA
Laird Part Number	S9028PCLJ96RTN/S9028PCRJ96RTN
Operating Frequency (MHz)	902-928
VSWR – Max	1.3:1
Gain (dBic)	9 dBi
Nominal Impedance (Ohms)	50
Polarization	Circular right or left
Horizontal Plane 3 dB Beamwidth	70°
Front-to-Back Ratio (dB)	20
Axial Ratio (dB)	1 (typical)

MECHANICAL SPECIFICATIONS

Dimensions – length x width x height – mm (inches)	259.08 x 259.08 x 33.53 (10.2 x 10.2 x 1.32)
Weight – kg (lbs.)	2.3 (1.04)
Radome Material	High Strength PC
Mount Style	Threaded stud
Lightning Protection	DC Grounded

ENVIRONMENTAL SPECIFICATIONS

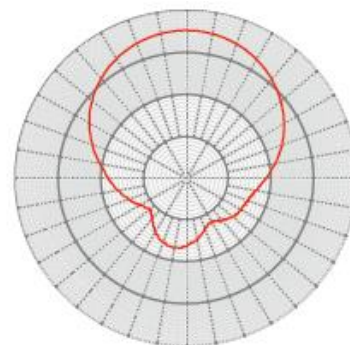
Operating Temperature – °C (°F)	-25 to +70°C (-13 to +158°F)
Ingress Protection Rating	IP 54

CONFIGURATION

IMPINJ PART NUMBERS	LAIRD PART NUMBERS	CONNECTOR
IPJ-A1000-USA	S9028PCLJ-IP1	Coax Pigtail, Rev TNC Male
IPJ-A1001-USA	S9028PCRJ-IP1	Coax Pigtail, Rev TNC Male

RADIATION PATTERN

915 MHz



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