

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 902-928 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.

FEATURES AND BENEFITS

- Low profile
- Weather and UV-resistant radome
- Extremely low VSWR and axial ratio
- Left-hand and right-hand CP versions

ELECTRICAL SPECIFICATIONS	
Impinj Part Numbers	IPJ-A1000-USA/IPJ-A1001-USA
Laird Part Numbers	S9028PCLJ-IP1/S9028PCRJ-IP1
Operating Frequency (MHz)	902-928 MHz
VSWR – Max	1.3:1
Gain (dBic)	9
Nominal Impedance (Ohms)	50
Polarization	Circular right-hand or circular left-hand
Horizontal Plane 3 dB Beamwidth	70°
Front-to-Back Ratio (dB)	20
Axial Ratio (dB)	1 (Typical)

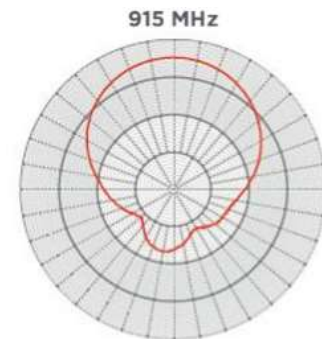
MECHANICAL SPECIFICATIONS	
Dimensions – length x width x height – mm (inches)	259 x 259 x 34 (10.2 x 10.2 x 1.32)
Weight – kg (lbs.)	1.04 (2.3)
Radome Material	High strength PC
Mount Style	Threaded stud
Lightning Protection	DC grounded

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature – °C (°F)	-25 to +70°C (-13 to +158°F)
Environmental 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



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