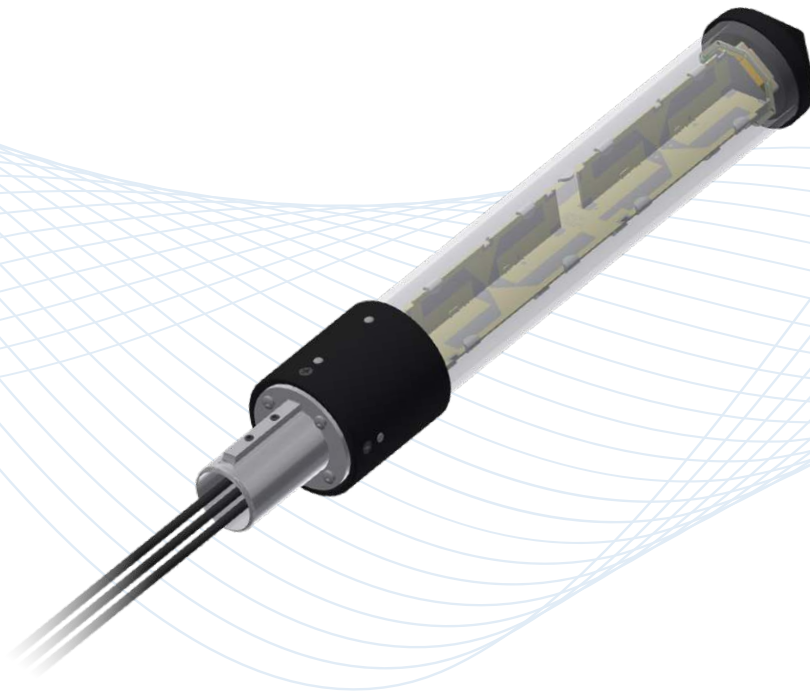


5G FR1 Multiband Base Station Omnidirectional Antenna with GNSSL125

Cellular Antennas (5G, LTE, CBRS, 3G, 2G) – Base Station

BOA5G2X2L125PTNM



Description

5G FR1 multiband antenna with advanced GPS LNA technology for mobile data and video communications.

Technologies

- 5G FR1
- Cellular
- GSM
- PCS
- Wi-Fi

Features

- Wideband coverage
- High rejection GPS LNA technology
- Dual port MIMO design
- High quality low loss cable and connectors
- Easy to install
- Rugged, UV-resistant fiberglass housing

5G FR1 Multiband Base Station Omnidirectional Antenna with GNSSL125

Cellular Antennas (5G, LTE, CBRS, 3G, 2G) – Base Station

The BOA5G2X2L125PTNM multiband antenna utilizes PCTEL's broadband element technology to achieve superior bandwidth performance. This platform offers multiband coverage, an easy-to-install design with ruggedized materials to provide maximum durability, and performance for mobile data and video communications.

Features

- Multiband coverage – Cellular, GSM, PCS, WiFi
- Versatile – Multiple network compatibility
- Powerful coverage – Dual port MIMO design, each with full broadband coverage
- Top quality – High performance, low loss cable and connectors
- Easy installation – Collar mount for pipes up to 1.66 inches OD
- Rugged – UV-resistant; tough fiberglass housing

Certifications



5G FR1 Multiband Base Station Omnidirectional Antenna with GNSSL125

Cellular Antennas (5G, LTE, CBRS, 3G, 2G) – Base Station

Standard Configuration

| Model | Cables | Connector ¹ | Mount |
|------------------|-----------|------------------------|---|
| BOA5G2X2L125PTNM | PTFE RG58 | N-Type Male | Collar mount (included) to fit schedule 40 (1.38-inch ID) or schedule 80 (1.278-inch ID) pipe sizes (pipe not included) |

Electrical Specifications - RF Antenna

| Frequency Range (MHz) | Peak Gain (dBi) | VSWR | Average Power (watts) | Nominal Impedance (ohms) | Polarization |
|-----------------------|-----------------|---------|-----------------------|--------------------------|----------------------|
| 617 - 960 | 3.5 | < 2.0:1 | 50 | 50 | Vertical, linear x 2 |
| 1710 - 2700 | 4 | | | | |
| 3200 - 4200 | 4.5 | | | | |
| 4900 - 6000 | 3.5 | | | | |

Electrical Specifications - GNSS Antenna

| Specification | Measurement |
|-----------------------|--|
| LNA Gain | 28dB ± 3dB |
| Nominal Impedance | 50 ohms |
| Polarization | Right Hand Circular |
| ESD Protection | >15kV |
| VSWR | <2.0:1 (typical) |
| Noise Figure | 3.0 dB (typical) |
| DC Voltage | 2.5 - 12.0 VDC |
| DC Current | 37 mA (typical) <50 mA (maximum) |
| Out-of-Band Rejection | <1050 MHz >80 dB <1450 MHz >70dB <1125 MHz >30 dB >1690 MHz >30dB >1350 MHz >70 dB >1730 MHz >80dB |

Mechanical and Environmental Specifications

| Specification | Measurement |
|--------------------|--|
| Dimensions | 3.25" OD x 22.57" H in (8.26 OD x 57.33 H cm) |
| Weight | 4.3 lbs |
| Package Weight | 5.3 lbs |
| Housing Material | Black, UV-stable fiberglass |
| Temperature Range | -40°F to +185°F (-40°C to +85°C) |
| Ingress Protection | IP54 |

¹ Consult customer service for other connector options.

CONTACT US

**For more information about
this product contact your
sales representative or visit
> pctel.com/antenna-products**

Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for over 25 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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