

OmniPole

Omni-Directional Antenna

The OmniPole is a vertically polarized central receive, omnidirectional system which provides 360-degree coverage with 11 dBi of gain. Other gains, with greater elevation beamwidth, are also available. Standard OmniPole models cover:

- 1.7 to 1.99 GHz
- 1.99 to 2.2 GHz
- 2.2 to 2.5 GHz
- 2.3 to 2.7 GHz

An optional LNA is available and is powered through the RF cable. The OmniPole is designed to be side mounted on a tower or other suitable structure. The OmniPole can also be used as an omnidirectional transmit antenna.



Key Features

- Omnidirectional
- 8 or 11 dBi models
- No remote switching required
- Rugged design
- Low wind resistance
- Simple installation
- LNA/Filter option
- Mounting hardware included

Typical Application

- Central Receive Systems

SPECIFICATIONS

GENERAL

Frequency Band

- 1.7 to 1.99 GHz
- 1.99 to 2.2 GHz
- 2.2 to 2.5 GHz

Antenna Gain

- 13 dBi min

Azimuth Beamwidth

- 360°

Elevation Beamwidth

- 6°

Polarization

- Vertical

LNA/Filter

- Optional

Gain

- 26 db

LNA Noise Figure

2 db typical, 2.5 db max

POWER REQUIREMENTS

(Please see NOTE)

Voltage

- +15 to +28 Vdc @ 70 mA

Filter Bandwidth

- Approximately 200 MHz

Connector

- Type "N" Female

PHYSICAL CHARACTERISTICS

Size

- 58" long x 3-1/2" diameter (147 cm x 8.9 cm)

Mounting

- Hardware supplied to attach to 3.5" to 4.5" (8.9 cm to 11.4 cm) diameter mast pipe

Weight

- Approximately 5 lbs. (2.3 kg) (not including mounting brackets)

NOTE: The OmniPole LNA is powered through the interconnecting coax. Some receivers, such as the earlier model MRC receivers, provide a DC output on the receiver for this purpose. If DC is not available, then a suitable low current 18 to 24 VDC power supply is required. A bias "T" (P/N 900371) should be connected in series with the RF coax cable at the receiver to inject the DC onto the coax cable. This bias "T" is provided with the OmniPole/LNA unit.

CONFIGURATIONS

HIGH GAIN OMNIDIRECTIONAL ANTENNAS

OmniPole 11 dBi

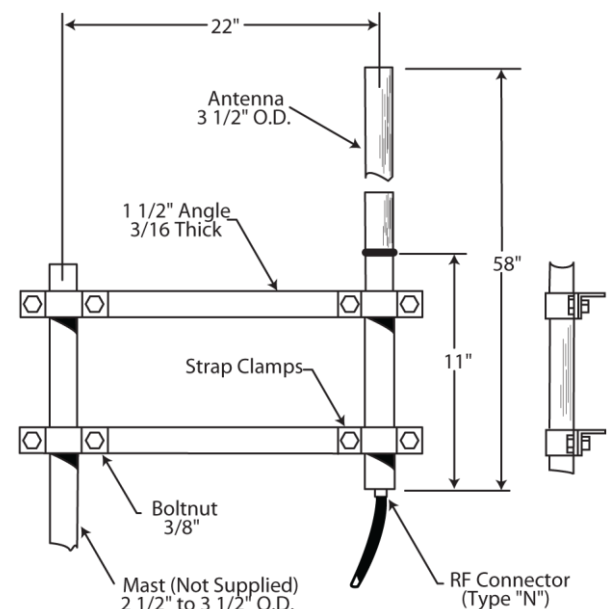
- 11 dBi, vertical, no LNA, 1.7 to 1.9 GHz
- 11 dBi, vertical, 24 dB gain LNA, PCS/MMDS filter and bias "T", 1.99 to 2.11 GHz *
- 11 dBi, vertical, 12 dB gain LNA, PCS/MMDS filter and bias "T", 1.99 to 2.11 GHz *
- 11 dBi, vertical, no LNA, 1.99 to 2.11 GHz
- 11 dBi, vertical, 24 dB gain LNA, PCS/MMDS filter and bias "T", 2.3 to 2.5 GHz *
- 11 dBi, vertical, 12 dB gain LNA, PCS/MMDS filter and bias "T", 2.3 to 2.5 GHz *
- 11 dBi, vertical, no LNA, 2.3 to 2.5 GHz

OmniPole 8 dBi

- 8 dBi, vertical, no LNA, 1.7 to 1.9 GHz
- 8 dBi, vertical, 24 dB gain LNA, PCS/MMDS filter and bias "T", 1.99 to 2.11 GHz *
- 8 dBi, vertical, 12 dB gain LNA, PCS/MMDS filter and bias "T", 1.99 to 2.11 GHz *
- 8 dBi, vertical, no LNA, 1.99 to 2.11 GHz
- 8 dBi, vertical, 24 dB gain LNA, PCS/MMDS filter and bias "T", 2.3 to 2.5 GHz *
- 8 dBi, vertical, 12 dB gain LNA, PCS/MMDS filter and bias "T", 2.3 to 2.5 GHz *
- 8 dBi, vertical, no LNA, 2.3 to 2.5 GHz
- 8 dBi, vertical, no LNA, 2.3 to 2.7 GHz

*Power supply rack, required

All OmniPole antennas mount to 2" to 4.5" mast poles



OmniPole Antenna Mounting Diagram