MICRONETIXX COMMUNICATIONS

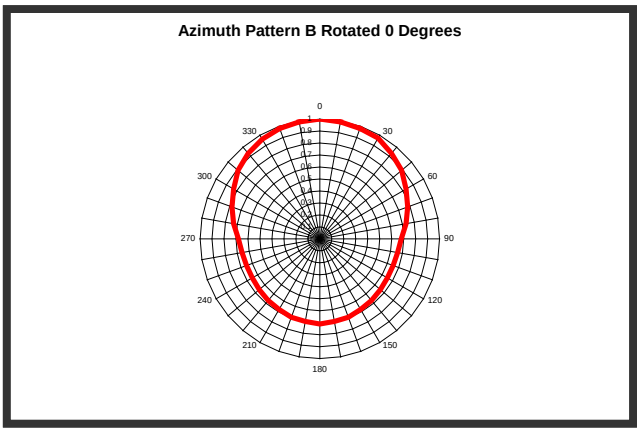
- **Channel 14 to 1500 MHz (Band IV) UHF Slot Antenna**
- **A variety of Azimuth Patterns available**
- **Low Weight Side Mounted 4 to 12 Bay Models**
- **4 kW Input Power Rating**
- **Horizontal, Elliptical, or Circular Polarization Available**

LP Series Low Power UHF Slot Antennas

The LP Series of UHF (Band IV) slot antennas are perfect for many low power applications, such as translators, standby antennas, and 700/800 MHz services. The antennas have a input power rating of 4 kW and some models may be customized up to a 7.5 kW rating. The antennas are available in 4 to 12 bay sizes, and are built in one bay increments. A 12 Bay “D” azimuth pattern for example, can produce an ERP of up to 91 kW.

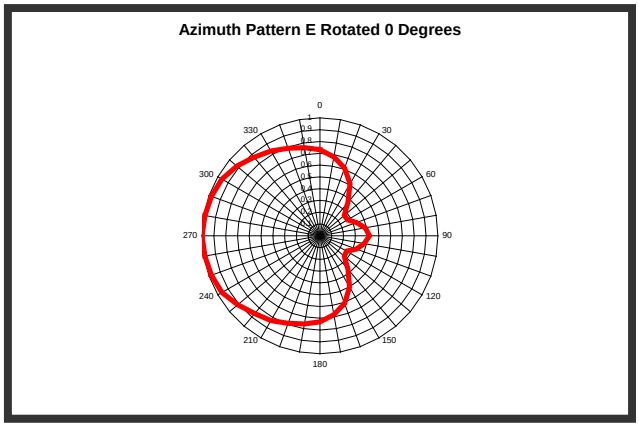
The antennas can be built with horizontal, Elliptical, or Circular Polarization. Beam tilt and null fill are customized for each antenna. Each antenna come with a 1-5/8” or 3-1/8” EIA input flange. The LP series antenna is built with stainless steel mounting brackets and a radome system. Extended radomes for high ice areas are available.

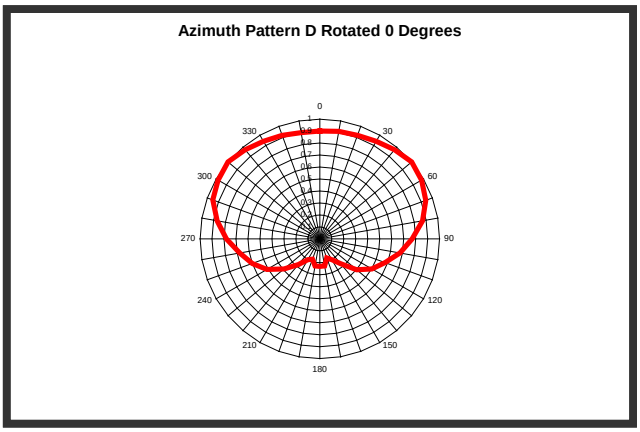
Sample LP Series Azimuth Patterns



Azimuth Pattern B
Omnioid
Gain is 1.70 (2.30 dB)

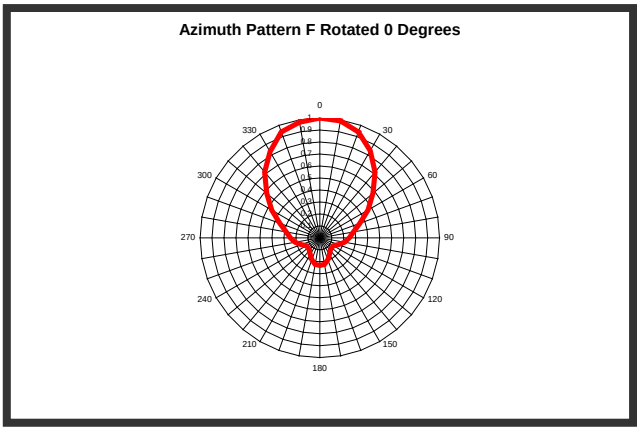
Azimuth Pattern E
Skull
Gain is 1.95 (2.90 dB)



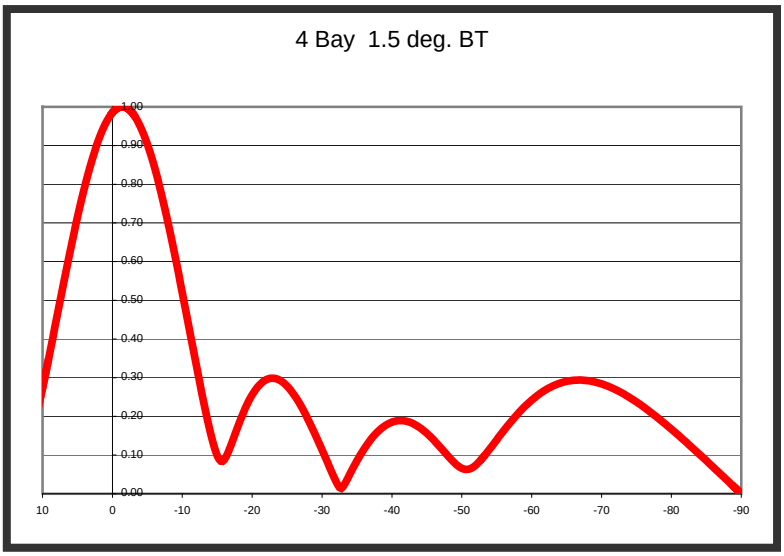


Azimuth Pattern D
Wide Cardioid
Gain is 1.90 (2.78 dB)

Azimuth Pattern F
Narrow Cardioid
Gain is 3.80 (5.80 dB)

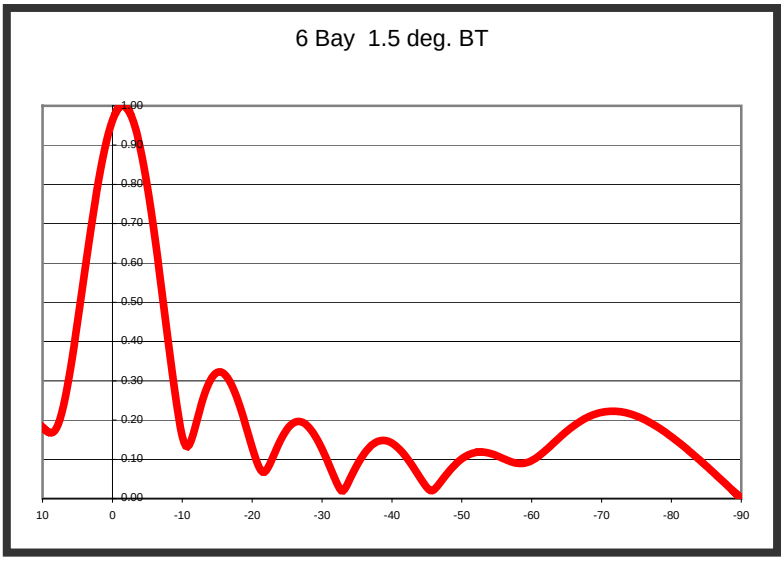


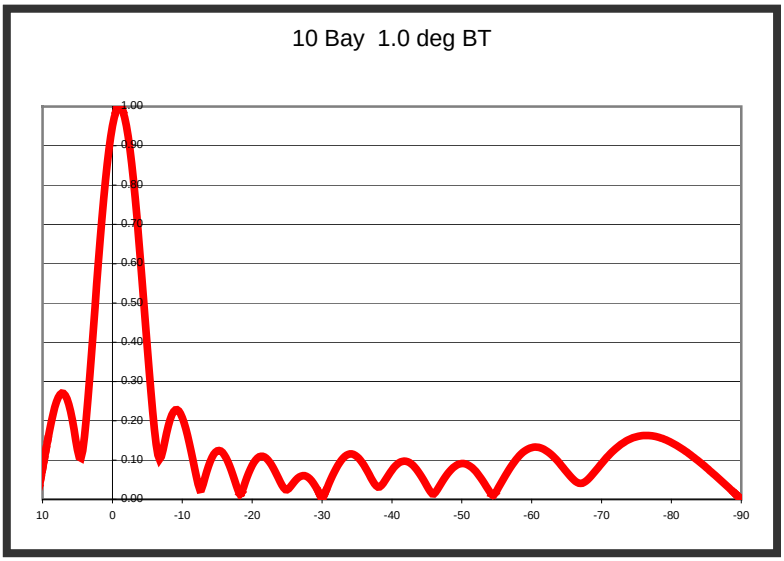
Sample LP Series Elevation Patterns



4 Bay Elevation Pattern
1.5 Degrees Beam Tilt
Gain is 4.12 (6.15 dB)

6 Bay Elevation Pattern
1.5 Degrees Beam Tilt
Gain is 6.05 (7.82 dB)

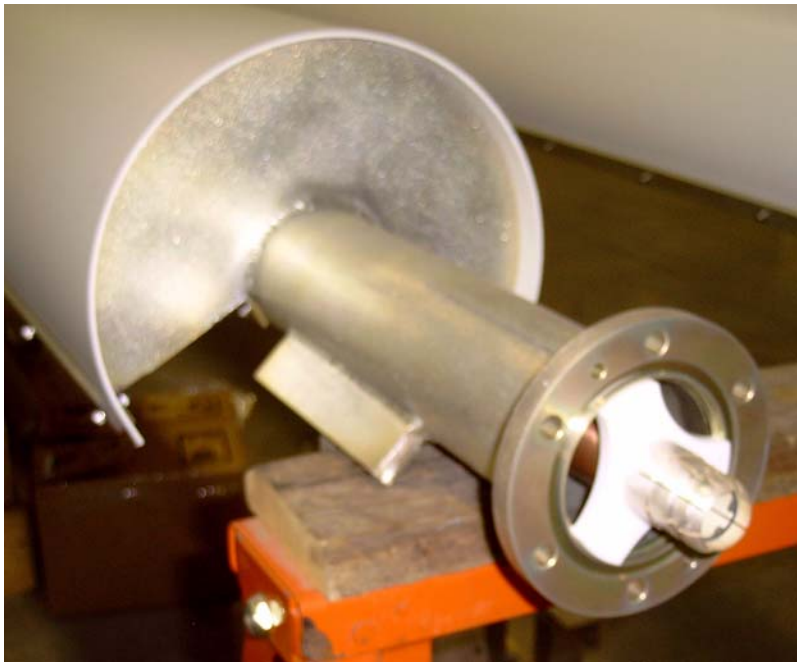




10 Bay Elevation Pattern
1.0 Degree Beam Tilt
Gain is 10.12 (10.05 dB)

LP Series Antennas Options

The LP series are end fed antennas using either a 1-5/8” or 3-1/8” EIA flange. There are no power dividers or feeder cables used on the LP series antennas. The larger bay count antennas can be sectionalized to lower shipping cost and to allow easier installation on roof tops. The two pylons sections are flanged in the middle and bolt together.



This is the feed point on a LP Series antenna. This model uses a 3-1/8” EIA flange. The antenna is a “D” azimuth pattern wide cardioid. The radome wraps around the front of the antenna. LP series antennas are finished with a class 1A chromate treatment.

The LP series of antennas comes with stainless steel mounting bracket to mount to a tower leg or monopole. The antenna can be ruggedized for up to 130 M.P.H. wind zones, and be furnished with extended radomes for high ice areas. A choice of international orange, white or light gray radomes are available. The LP series radomes are made from rugged UV stabilized Polyethylene.

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