



Communications & Power Industries



malibu division

# L/S BANT SERIES

## Boresight Antenna

Product Data Sheet



**MODEL BANT - L/S  
BORESIGHT ANTENNA**

### Features:

- Wide Beamwidth - Ideal for Range Applications
- Lightweight
- Rugged Construction
- Versatile
- Frequencies (Optional)
- Polarizations (Optional)
- Connectors (Optional)
- Acquisition-Aid Antenna (Optional)
- Compass & Inclinometer (Optional)
- Fiber-Optic Control Available (Optional)

The CPI Malibu Division BANT series of boresight antennas are designed to be mounted onto a pole or railing. The antenna is ideally suited for boresight applications where a low-level RF signal is transmitted for calibration and test purposes. However, since the antenna is a bi-directional device the unit can also be used to receive signals in the frequency band of 1435 to 2485 MHz.

The boresight antenna is designed for outdoor use and is ruggedly constructed in order to withstand the elements for extended periods of time. The antenna's radiating element is protected with a fiberglass radome, while the entire antenna is protected using a polyurethane paint.

The boresight antenna can be optimized for improved VSWR figures over narrow frequency bands and can be supplied with high power handling capabilities. In addition, the unit can be optimized for greater E&H plane beamwidths, while having a lower gain or higher gain and smaller E&H plane beamwidths.

Parameter	Specifications
<b>Antenna</b>	<b>Model BANT - L/S</b>
Operating Frequency <sup>1</sup>	1435 - 2485 MHz
Polarization <sup>2</sup>	Dual Linear or Dual Circular
VSWR <sup>3</sup>	2.0:1 maximum
<b>Gain</b>	<b>Nominal</b>
1435 MHz	6.5 dBi minimum
1900 MHz	7.8 dBi minimum
2400 MHz	9.0 dBi minimum
Impedance	50 Ohms nominal
<b>Elevation Bandwidth</b>	<b>Nominal</b>
1435 MHz	70 degrees nominal
1900 MHz	60 degrees nominal
2400 MHz	50 degrees nominal
Power	100 Watts C.W. minimum
Connector	SMA female
<b>Environmental</b>	
Temperature	Operating -20°C to +52°C Storage -54°C to +71°C
Relative Humidity	Up to 100%, including condensation
Rain	Up to 5 Inches per Hour
Ice	One-half Inch, Radial
Weight	< 100 grams