



JCPB

JCPB FM BROADBAND BROADCAST ANTENNA

The JAMPRO JCPB side mount antenna is a broadband version of the PENETRATOR antenna, which has become an industry standard for quality and performance. Each bay consists of a PENETRATOR style radiating element supported by a galvanized steel mounting bracket; standard round leg mounting brackets for a uniform face tower are included with each antenna. Dipoles are stainless steel. Silver plated inner conductor connectors are used throughout for maximum contact life and minimum power loss.



Dipole Power rating
500 W (JCPB-L)
2.5kW (JCPB-M)
5kW (JCPB-H)

**Ideal for broadband & multi frequency
applications**

Excellent VSWR & bandwidth without field tuning

Circular polarization

DC ground at each bay & balun radomes available

Electrical Specifications

| | |
|--------------|----------------------|
| Frequency | Band II 87.5-108 MHz |
| Circularity | 2.0 dB (Free Space) |
| Polarization | Circular |
| Impedance | 50 ohm |
| VSWR | 1.25:1 |



| # of Bays | Power Gain (HPOL) (times) | Gain (HPOL) (dB) | Max Power * Rating JCPB-L | Max Power Rating* JCPB-M | JCPB-H |
|-----------|------------------------------|------------------|------------------------------|-----------------------------|--------|
| 1 | .45 | -3.4 | 500 W | 2.5 kW | 5 kW |
| 2 | .90 | -0.4 | 2 KW | 5 kW | 10 kW |
| 3 | 1.38 | 1.4 | 2 KW | 7.5 kW | 15 kW |
| 4 | 1.95 | 2.9 | 2 KW | 10 kW | 20 kW |
| 6 | 3.0 | 4.8 | 2 KW | 10 kW | 30 kW |
| 8 | 4.3 | 6.4 | 2 KW | 10 kW | 40 kW |

NOTES:

1. All inputs EIA flange, female.
2. Power derating occurs above 2,000 ft. elevation.
3. Power and dB gains are typical RMS gains for horizontal and vertical components.
4. Special mounting brackets available.
5. Other combinations of EIA inputs and Higher power ratings available.
6. Free space azimuth circularity is 2.0 dB.
7. Polarization is right hand, clockwise, circular.
8. Power gain is based on half wave dipole in free space.

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation (RFR), JAMPRO ANTENNAS, INC. cannot accept any responsibility in this matter. The station must examine and determine its status based on each individual situation. For reduced low angle radiation near the tower, a low RFR model of this antenna is available. Contact the factory for pricing data and further details.

*All specifications subject to change without notice. Higher power ratings available