



Product Description

Vertically polarized broad band side mount FM antenna consisting of a Balun fed vertical dipole, power divider and heliax coaxial feed lines. The JBVP vertical dipole antenna is constructed of stainless steel and brass inner conductor. All associated brackets and hardware are made of hot dipped, galvanized steel for many years of dependable service.

Vertical or elliptical polarization

VSWR: 1.25:1 over 6 MHz

Excellent duplexing capabilities

Medium power handling

Beam tilt and null fill available

Custom directional patterns available

Reduced element spacing for minimizing

RF levels

The vertically polarized FM array is completely assembled full size and factory tuned on an electrically similar tower structure to insure proper impedance match and low VSWR. The antenna features symmetrical band pass and is ideal for HD Radio™ and analog broadcasting.

Alan Dick Broadcast Ltd

Design, supply & manufacture communication infrastructure systems on a global scale by offering products and services for Wireless networks.

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ADB-BVP

VERTICAL DIPOLE FM BROADCAST ANTENNA



| # Bays | Power Gain | Gain (dB) | Max Power kW |
|--------|------------|-----------|--------------|
| 1 | 0.92 | -0.37 | 2.5 |
| 2 | 1.9 | 2.8 | 5 |
| 3 | 3 | 4.77 | 7.5 |
| 4 | 4.2 | 6.23 | 10 |
| 5 | 5.3 | 7.24 | 12.5 |
| 6 | 6.6 | 8.19 | 15 |
| 8 | 8.4 | 9.25 | 17.5 |
| 10 | 10.6 | 10.3 | 20 |
| 12 | 13.2 | 11.2 | 20 |
| 16 | 17.6 | 12.45 | 20 |

*All stated gains are Peak gains. Gains do not include losses for feed system, beam tilt or null fill.

NOTES:

1. All inputs EIA flange, female.
2. Feed points: ~5 ft. below center (mid-aperture).
3. Power de-rating occurs above 2,000 ft. elevation.
4. Power and dB gains are typical for horizontal and vertical components.
5. Custom mounting brackets available.
6. Free space azimuth circularity is +/- 2dB.
7. Polarization is vertical.
8. Power gain is based on half wave dipole in free space
9. Optional fine matcher available. Contact factory for details.

OPTIONS:

Options available include FCC Directionalization, Pattern Measurement Service, beam tilt, null fill, and special mounting brackets.

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation, Alan Dick Broadcast Ltd. 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 are subject to change without notice.

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