

## Dual Band VHF/UHF Collinear Antenna

The MBD1444(S) antenna offers VHF and UHF dual band coverage with 2 dB gain (at VHF) and 5 dB gain (at UHF frequencies). The antenna features a tapped coil design to maximize bandwidth. A shock spring is available for heavy duty applications.



MDB1444S

### Features

- VHF/UHF dual band coverage
- 2 dB Gain at VHF frequencies; 5 dB gain at UHF frequencies
- Model designed for business or amateur bands
- Mates with all 1-1/8"-18 thread mounts, including 3/4" mounts

### Antenna Electrical Specifications

| Model       | Frequency Range            | Factory Tuned Frequency | Gain                     |
|-------------|----------------------------|-------------------------|--------------------------|
| MDB1444(S)* | 144-148 MHz<br>440-448 MHz | 146 MHz<br>444 MHz      | 2 dB (VHF)<br>5 dB (UHF) |



### Technical Data

|                                                                                           |
|-------------------------------------------------------------------------------------------|
| Maximum Power:<br>200 watts                                                               |
| Nominal Impedance:<br>50 ohms                                                             |
| VSWR at Resonance:<br>< 1.5:1 (UHF models)<br>< 2:1 (VHF models)                          |
| Radiator Material:<br>.100"-.062" diameter stainless steel                                |
| Optional Spring:<br>Stainless steel                                                       |
| Phasing Coil Housing:<br>Molded polymer jacket with bright or black chrome plated bushing |
| Loading Coil:<br>Tinned copper wire wound on a low-loss coil form                         |
| Base Coil Housing:<br>Molded polymer jacket with copper, nickel and chrome plated bushing |
| Antenna Type:<br>VHF: 1/2 wave<br>UHF: 5/8 wave over a 1/2 wave                           |

### Mechanical Specifications

| Model       | Antenna Height at lowest frequency |
|-------------|------------------------------------|
| MDB1444(S)* | Approximately 38"                  |

\* Suffix "S" indicates spring, which is not a retrofit option. Please indicate at time of order.