This popular antenna is available with four folded dipoles for high gain and broad bandwidth.

- **Broad Response** – 10 MHz bandwidth provides optimum performance in single or multi-frequency systems, on both transmit and receive.
- **Circular Pattern** – DB224 has four elements positioned evenly, every 90 degrees around the mast, for omni pattern.
- **Offset Pattern** – DB224E comes with four elements aligned collinearly on the same side of the mast for maximum directional gain.
- **Dual Version** – Two antennas on the same mast are fed and operated separately, providing 3 dB omni or 6 dB directional patterns.
- **Two-Piece Mast** – For ease of shipment and handling, the mast is made in two sections. A unique center splice assures proper alignment.
- **Lightning-Resistant** – The radiators operate at DC ground, and the aluminum mast with its pointed cap provides a low resistant discharge path to the tower or ground system.
- **For Air Shipment** – Model DB224X has a shortened mast, 124" (3150 mm).

### Ordering Information
- Use model number for correct frequency and specify termination if non-standard. Add E for offset pattern, S for dual omni or ES for dual offset pattern. DB365-OS Mounting Clamps are included. For side mounting order DB6001 Side Mount Kit. For Stabilizer Kit, order 12088 (four required). For shortened mast, order DB224X. Order jumper cable separately.

### Electrical Data

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Bandwidth (150-174 MHz) – MHz</td>
<td>10</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.5 to 1 or less</td>
</tr>
<tr>
<td>Nominal impedance – ohms</td>
<td>50</td>
</tr>
<tr>
<td>Gain (over half-wave dipole)</td>
<td>Omni pattern – dBd = 6.0, Offset pattern – dBd = 9.0</td>
</tr>
<tr>
<td>Maximum power input – watts</td>
<td>500</td>
</tr>
<tr>
<td>Vertical beamwidth (half power points)</td>
<td>16°</td>
</tr>
<tr>
<td>Decoupling between antennas (split models) – dB</td>
<td>35 minimum</td>
</tr>
<tr>
<td>Lightning protection</td>
<td>Direct ground</td>
</tr>
<tr>
<td>Standard Termination: Captive Type N-Male attached to end of flexible lead</td>
<td></td>
</tr>
</tbody>
</table>

### Mechanical Data

- **Mast** – upper (aluminum) – in. (mm) 1.75 (44.45) OD with .062 to .125 (1.57 to 3.18) wall
- **Mast** – lower (aluminum) – in. (mm) 2 (50.8) OD with .125 to .187 (3.18 to 4.75) wall
- **Radiating elements (aluminum)** – in. (mm) .5 (12.7) OD with .058 (1.47) wall
- **Maximum exposed area (flat plate equivalent)** – ft² (m²) 3.15 (.292)
- **Lateral thrust at 100 mph (161 km/hr)** – lbf (N) 126 (560.5)
- **Wind rating:**
  - Top Side Survival w/o ice – mph Mounted Mounted (km/hr) 80 (129) 100 (161)
  - Survival with .5" (12.7mm) radial ice – mph (km/hr) 55 (89) 70 (113)
- **Overall length (150-174 MHz)** – in. (mm) 255 (6477)
- **Shipping length – in. (mm) 148 (3759)
- **Net weight (w/clamps) – lbs. (kg) 25 (11.36)
- **Shipping weight (w/clamps) – lbs. (kg) 32 (14.51)
- **Mounting clamps (Galv. steel) DB365-OS**

*Special frequencies are available; contact factory for details.

*Calculation of wind survivability does not include damage due to flying debris.