1-port omni antenna, 806–869 MHz, 360° HPBW, fixed electrical tilt

- Omnidirectional antenna
- Rugged, durable design, heavy duty radome for minimum tip deflection
- Invert mountable

### Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Band, MHz</strong></td>
<td>806–869</td>
</tr>
<tr>
<td><strong>Gain, dBi</strong></td>
<td>11.1</td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal, degrees</strong></td>
<td>360</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical, degrees</strong></td>
<td>8.0</td>
</tr>
<tr>
<td><strong>Beam Tilt, degrees</strong></td>
<td>0</td>
</tr>
<tr>
<td>**VSWR</td>
<td>Return Loss, dB**</td>
</tr>
<tr>
<td><strong>PIM, 5th Order, 2 x 20 W, dBC</strong></td>
<td>-150</td>
</tr>
<tr>
<td><strong>Input Power per Port, maximum, watts</strong></td>
<td>500</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>Vertical</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>50 ohm</td>
</tr>
</tbody>
</table>

### General Specifications

- **Operating Frequency Band**: 806 – 869 MHz
- **Antenna Type**: Omni
- **Band**: Single band
- **Performance Note**: Outdoor usage

### Mechanical Specifications

- **RF Connector Quantity, total**: 1
- **RF Connector Quantity, low band**: 1
- **RF Connector Interface**: 7-16 DIN Female
- **Color**: Horizon blue
- **Grounding Type**: RF connector inner conductor and body grounded to reflector and mounting bracket
- **Radiator Material**: Brass
- **Radome Material**: Fiberglass, UV resistant
- **RF Connector Location**: Bottom
- **Wind Loading, maximum**: 364.8 N @ 100 mph  
  82.0 lbf @ 100 mph
- **Wind Speed, maximum**: 362 km/h  | 225 mph
DB809KE-XT

Dimensions

Length 3708.0 mm  |  146.0 in  
Outer Diameter 76.0 mm  |  3.0 in  
Net Weight, without mounting kit 12.0 kg  |  26.5 lb

Regulatory Compliance/Certifications

Agency       Classification
RoHS 2011/65/EU  Compliant by Exemption
ISO 9001:2015  Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014 Above Maximum Concentration Value (MCV)

Included Products

DB8091-3 — Pipe Mounting Kit for 3.5 in (88.9 mm) OD round members

* Footnotes

Performance Note  Severe environmental conditions may degrade optimum performance