1-port omni antenna, 746–869 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>Frequency Band, MHz</td>
<td>746–869</td>
</tr>
<tr>
<td>Gain, dBi</td>
<td>12.1</td>
</tr>
<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>360</td>
</tr>
<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>6.0</td>
</tr>
<tr>
<td>Beam Tilt, degrees</td>
<td>0</td>
</tr>
<tr>
<td>VSWR</td>
<td>Return Loss, dB</td>
</tr>
<tr>
<td>PIM, 5th Order, 2 x 20 W, dBC</td>
<td>-150</td>
</tr>
<tr>
<td>Input Power per Port, maximum, watts</td>
<td>500</td>
</tr>
<tr>
<td>Polarization</td>
<td>Vertical</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohm</td>
</tr>
</tbody>
</table>

### General Specifications

- **Operating Frequency Band**: 746 – 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**: Light gray
- **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**: 100.0 lbf @ 100 mph | 444.8 N @ 100 mph
- **Wind Speed, maximum**: 241 km/h | 150 mph
DB810E-PS

Length 4483.0 mm | 176.5 in
Outer Diameter 76.0 mm | 3.0 in
Net Weight, without mounting kit 17.0 kg | 37.5 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)
CE | Compliant with the relevant CE product directives

Included Products

DB5091—Pipe Mounting Kit for 3.5 in (88.9 mm) OD round members

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance
Pipe Mounting Kit for 3.5 in (88.9 mm) OD round members

General Specifications

Application: Outdoor
Includes: Brackets | Hardware | Pipe
Package Quantity: 2

Mechanical Specifications

Color: Silver
Material Type: Galvanized steel

Dimensions

| Compatible Diameter, maximum | 88.9 mm | 3.5 in |
| Compatible Diameter, minimum | 31.8 mm | 1.3 in |

Regulatory Compliance/Certifications

Agency
RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014

Classification
Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)