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>Specification</th>
<th>Value</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

Dimensions
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
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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

DB8591-3 — Pipe Mounting Kit for 3.5 in (88.9 mm) OD round members

* Footnotes

Performance Note: Severe environmental conditions may degrade optimum performance