Omnidirectional Antenna
Vertical Polarization

VPol Omni 870–960 360° 11dBi

Type No. 736347

- Frequency range: 870 – 960 MHz
- Polarization: Vertical
- Gain: 11 dBi
- Impedance: 50 Ω
- VSWR: < 1.5
- Intermodulation IM3: < –150 dBc (2 x 43 dBm carrier)
- Max. power: 500 W (at 50 °C ambient temperature)

Mechanical specifications

<table>
<thead>
<tr>
<th>Input</th>
<th>7-16 female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector position</td>
<td>Bottom</td>
</tr>
<tr>
<td>Wind load (at 150 km/h) (N) [lbf]</td>
<td>210 [47]</td>
</tr>
<tr>
<td>Max. wind velocity (km/h) [mph]</td>
<td>200 [124]</td>
</tr>
<tr>
<td>Height (mm) [inches]</td>
<td>3033 [119.4]</td>
</tr>
<tr>
<td>Radome diameter (mm) [inches]</td>
<td>51 [2.0]</td>
</tr>
<tr>
<td>Weight (kg) [lb]</td>
<td>8.0 [17.6]</td>
</tr>
<tr>
<td>Packing size (mm) [inches]</td>
<td>3316 x 148 x 112 [130.6 x 5.8 x 4.4]</td>
</tr>
</tbody>
</table>

All specifications are subject to change without notice.
The latest specifications are available at www.kathreinusa.com
Accessories

General Information

Mounting:
The antenna can be attached laterally at the tip of a tubular mast of 50–94 mm [2.0–3.7 inches] diameter with two U-bolt brackets supplied with the antenna (connecting cable runs outside the mast).

Material:
- Radiator: Copper and brass.
- Radome: Fiberglass, color: Grey.
- Base: Weather-proof aluminum.
- Mounting kit, screws and nuts: Stainless steel.

Solid, reliable construction:
Omnidirectional antennas are often installed at exposed sites on the top of masts, so special attention has been paid to their mechanical construction.
The exceptionally stiff fiberglass tube with low tip deflection will withstand wind velocities of up to 200 km/h [125 mph].

Anti-static protection:
All metal parts of the antenna as well as the supplied clamp attachment are grounded. The inner conductor is capacitively coupled.

Lightning protection:
The antenna is designed to withstand a lightning current of up to 150 KA (impulse: 10/350 μs), according to IEC 62305 parts 1–4 and VDE 0855-300, and thereby fulfills the requirements of lightning protection class II. Grounding cross-section: 22 mm² copper.

Accessories (order separately)

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Description</th>
<th>Remarks (mm) [inches]</th>
<th>Weight approx. (kg) [lb]</th>
<th>Units per antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>738908</td>
<td>2 clamps</td>
<td>Mast diameter: 94–125 [3.7–5.0]</td>
<td>2.8 [6.2]</td>
<td>1</td>
</tr>
</tbody>
</table>

Any previous data sheet issues have now become invalid.

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