WR-10 Waveguide Lens Horn Antenna Operating from 89 GHz to 99 GHz with a Nominal 40 dBi Gain with UG-387/U Round Cover Flange

Features
- Rectangular Waveguide Interface
- 94 GHz center frequency
- 40 dBi Nominal Gain
- UG-387/U Round Cover Flange

Applications
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

Description
Waveguide horn lens antennas are used in a variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance across a broad bandwidth. Pasternack’s PEWAN1086 WR-10 waveguide horn lens antenna operating from 94 GHz center frequency with a nominal 40 dBi gain is part of our full line of RF components available for same-day shipping. This Pasternack circular horn antenna has a precision tolerance UG-387/U round cover flange. The PEWAN1086 WR-10 waveguide horn lens antenna offers low gain variation across its operating frequency range.

Configuration
Design: WR-10 Lens Horn
Pattern: Directional
Polarization: Linear

Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>89</td>
<td>99</td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>Nominal Gain</td>
<td>40</td>
<td></td>
<td></td>
<td>dBi</td>
</tr>
<tr>
<td>Horizontal Half Power Beam Width</td>
<td>1</td>
<td></td>
<td></td>
<td>Degrees</td>
</tr>
<tr>
<td>Vertical Half Power Beam Width</td>
<td>1</td>
<td></td>
<td></td>
<td>Degrees</td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
<td></td>
<td>1.5:1</td>
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</tr>
</tbody>
</table>

Mechanical Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>11.48 in [291.59 mm]</td>
</tr>
<tr>
<td>Width</td>
<td>7.5 in [190.5 mm]</td>
</tr>
<tr>
<td>Height</td>
<td>7.5 in [190.5 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>2.009 lbs [911.27 g]</td>
</tr>
</tbody>
</table>

Waveguide Interface
- Waveguide Size: WR-10
- Flange Type: Round Cover
- Flange Designation: UG-387/U

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: WR-10 Waveguide Lens Horn Antenna Operating from 89 GHz to 99 GHz with a Nominal 40 dBi Gain with UG-387/U Round Cover Flange PEWAN1086
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Body Material and Plating: HDPE

Compliance Certifications (see product page for current document)

Plotted and Other Data

Typical Performance Data

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DIMENSIONS IN [...] ARE MILLIMETERS.

TOLERANCES:
XXX=± .005 [ .13 ]
.01 [ .25 ]
.X=± .2 [5.08] FRACTIONS
± 1/32
ANGLES ± 1°

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