WR-284 to N Female Waveguide to Coax Adapter
UDR32 Flange With 2.6 GHz to 3.95 GHz Frequency Range For S Band

The SMW284ACN is a waveguide to coaxial adapter with a frequency range of 2.6 to 3.95 GHz, operating in the S band. This adapter offers a precision tolerance UDR32 flange and a WR-284 waveguide interface size. SMW284ACN is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses an N female connector and the package is REACH and RoHS compliant.

### Configuration
- **Waveguide Size**: WR-284
- **Flange**: UDR32
- **RF Connector**: N Female
- **Impedance**: 50 Ohms
- **Body Geometry**: Right Angle

### Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>2.6</td>
<td>3.95</td>
<td>GHz</td>
<td></td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
<td></td>
<td>1.25:1</td>
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<tr>
<td>Insertion Loss</td>
<td>0.15</td>
<td></td>
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<td>dB</td>
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<tr>
<td>Input Power (CW)</td>
<td></td>
<td></td>
<td>300</td>
<td>Watts</td>
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<tr>
<td>Input Power (Peak)</td>
<td></td>
<td></td>
<td>3</td>
<td>KWatts</td>
</tr>
</tbody>
</table>

### Mechanical Specifications

- **Size**
  - Length: 4.5 in [114.3 mm]
  - Width: 3 in [76.2 mm]
  - Height: 3.11 in [78.99 mm]
  - Weight: 0.6949 lbs [315.2 g]

- **RF Connector**
  - Connector Type: N Female
  - Specification: 30µ in. min.
  - Contact Material and Plating: Beryllium Copper, Gold
  - Body Material and Plating: Brass, Nickel

- **Waveguide Interface**
  - Waveguide Type: WR-284
  - Flange Type: UDR32
  - Body Material and Plating: Aluminum

### Environmental Specifications
- **Temperature**
  - Operating Range: -55 to +120 deg C

### Compliance Certifications
(see product page for current document)

### Plotted and Other Data
- **Notes**:
  - Values at +25 °C, sea level unless stated otherwise
Typical Performance Data

WR-284 to N Female Waveguide to Coax Adapter UDR32 Flange With 2.6 GHz to 3.95 GHz Frequency Range For S Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-284 to N Female Waveguide to Coax Adapter UDR32 Flange With 2.6 GHz to 3.95 GHz Frequency Range For S Band SMW284ACN


The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability, arising out of the use of any part or documentation.
SMW284ACN

DATA SHEET

FAIRVIEW MICROWAVE INC.
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

TITLE
WR-284 to N Female Waveguide to Coax Adapter
UDR32 Flange With 2.6 GHz to 3.95 GHz Frequency Range For S Band

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

FAIRVIEW MW
SMW284ACN WR-284

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

STANDARD TOLERANCES
.X  ±0.2
.XX  ±0.1
.XXX ±0.05

REFERENCES:
1. 1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689
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