

# WR-12 Waveguide Omni-directional Antenna Operating from 71 GHz to 86 GHz with a Nominal 2 dBi Gain with UG-387/U Round Cover Flange



# **Waveguide Antennas Technical Data Sheet**

**PEWAN1134** 

### **Features**

- 360° Azimuth Coverage
- 30° Vertical 3 dB Beamwidth

Vertically Polarized

## **Applications**

- · Communications Links
- EW Systems

Indoor Local Area Networks

## Description

Pasternack's PEWAN1134 is a WR-12 omnidirectional antenna that operates between 71 GHz and 86 GHz. This vertically polarized antenna offers 360 degrees azimuth coverage with ±3 dB angular gain flatness. The antenna features a half power beam width of 30 degrees in the vertical direction and typical 2 dB gain across the entire frequency range. The input of this antenna is a WR-12 waveguide with UG-387/U flange.

#### Configuration

Design Pattern

Polarization

WR-12 Omni-directional Omni Directional

Vertical

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	71		86	GHz
Nominal Gain		2		dBi
Gain Flatness		±3		dB
Horizontal Half Power Beam Width		360		Degrees
Vertical Half Power Beam Width		30		Degrees
VSWR		2:1		

#### **Mechanical Specifications**

Size

 Length
 0.87 in [22.1 mm]

 Width
 0.87 in [22.1 mm]

 Height
 0.51 in [12.95 mm]

 Weight
 0.0125 lbs [5.67 g]

**Waveguide Interface** 

Waveguide Size WR-12
Flange Type Round Cover
Flange Designation UG-387/U
Body Material and Plating Aluminum, Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-12 Waveguide Omni-directional Antenna Operating from 71 GHz to 86 GHz with a Nominal 2 dBi Gain with UG-387/U Round Cover Flange PEWAN1134

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Environmental Specifications Temperature

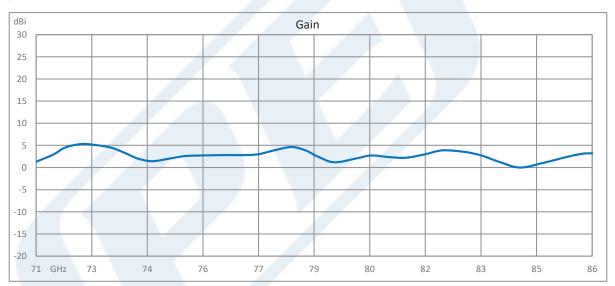
**Operating Range** 

-40 to 85 deg C

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

#### **Typical Performance Data**



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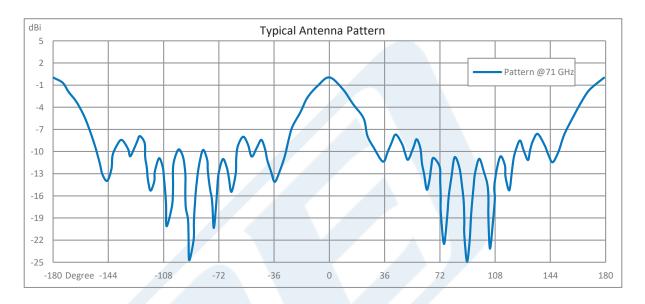


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## **PEWAN1134**



WR-12 Waveguide Omni-directional Antenna Operating from 71 GHz to 86 GHz with a Nominal 2 dBi Gain with UG-387/U Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr-12-waveguide-gain-horn-antenna-2dbi-ug-387-round-flange-pewan1134-p.aspx

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

**PEWAN1134 CAD Drawing**WR-12 Waveguide Omni-directional Antenna Operating from 71 GHz to 86 GHz with a Nominal 2 dBi Gain with UG-387/U Round Cover Flange

