



0.094 Inch Circular Waveguide Gaussian Optics
Lens Antenna, 88 GHz to 100 GHz Frequency
Range, 48 dBi Gain, UG-387/U-Mod Flange

Waveguide Antennas Technical Data Sheet

PEWAN1102

Features

- 88 GHz to 100 GHz Frequency Range
- 0.094" Diameter Circular Waveguide
- UG-387/U-Mod Square Cover Flange
- Center Fed
- Low Sidelobes
- Low Cross Polarization
- Linear and Circular Polarized Waveforms

Applications

- Radar Systems
- Communication Systems
- Plasma Systems

Description

Pasternack's PEWAN1102 is a 12 inch W Band Gaussian antenna operating in the frequency range of 88 GHz to 100 GHz. The gaussian antenna offers a typical 48 dBi gain, 0.8 degrees typical half power beamwidth, and -25 dB typical sidelobes levels. The antenna supports both linear and circular polarized waveforms and employs a corrugated feed horn to offer excellent aperture efficiency, high cross polarization rejections, and low sidelobe levels. PEWAN1102 is equipped with a 0.094" diameter circular waveguide and UG-387/U-Mod square cover flange as its input port.

Configuration

Polarization

Linear/Circular

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	88		100	GHz
Nominal Gain		48		dBi
Horizontal Half Power Beam Width		0.8		Degrees
Vertical Half Power Beam Width		0.8		Degrees
VSWR		1.1:1		

Mechanical Specifications

Size

Length	16.29 in [413.77 mm]
Width	13 in [330.2 mm]
Height	13 in [330.2 mm]
Weight	19.5 lbs [8.85 kg]
Flange Type	Square Cover
Flange Designation	UG-387/U-Mod
Body Material and Plating	Aluminum, Black

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.094 Inch Circular Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz Frequency Range, 48 dBi Gain, UG-387/U-Mod Flange PEWAN1102](#)



0.094 Inch Circular Waveguide Gaussian Optics
Lens Antenna, 88 GHz to 100 GHz Frequency
Range, 48 dBi Gain, UG-387/U-Mod Flange

Waveguide Antennas Technical Data Sheet

PEWAN1102

Environmental Specifications

Temperature

Operating Range

-40 to 85 deg C

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

Plotted and Other Data

0.094 Inch Circular Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz Frequency Range, 48 dBi Gain, UG-387/U-Mod 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.094 Inch Circular Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz Frequency Range, 48 dBi Gain, UG-387/U-Mod Flange PEWAN1102](#)

URL: <https://www.pasternack.com/waveguide-gain-horn-antenna-48dbi-ug-387-mod-square-flange-pewan1102-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.

PEWAN1102 CAD Drawing

0.094 Inch Circular Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz Frequency Range, 48 dBi Gain, UG-387/U-Mod Flange

