



## WR-22 Seamless Flexible Waveguide 12 Inch, UG-383/U Round Cover Flange Operating From 33 GHz to 50 GHz

### Flexible Waveguides Technical Data Sheet

PE-W22SF005-12

#### Features

- WR-22 waveguide
- Flexes in both the E and H plane
- UG-383/U Round Cover Flange
- Q Band
- 33 GHz to 50 GHz Frequency Range
- Brass flanges with a silver plated brass body
- Neoprene sleeve provides added protection and mechanical support

#### Applications

- Allows expansion/contraction due to thermal issues.
- Test Benches
- Microwave Radio
- Eliminates installation problems caused by misalignment.
- Pressurized waveguide systems
- Provides vibration isolation

#### Description

The PE-W22SF005-12 is part of Pasternack's family of flexible, seamless waveguides which operates in the 33 to 50 GHz Q Band range. The flexible waveguide section is made of silver plated brass. It can be bent in both the E and H planes without impairing VSWR or attenuation. The waveguide section is covered by a neoprene jacket which protects the waveguide, provides mechanical support and allows the waveguide to be pressurized.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	33		50	GHz
VSWR		1.2:1		
Insertion Loss		0.49		dB

#### Mechanical Specifications

Waveguide Size	WR-22
Waveguide Design	Seamless
Section Length	12 [in [304.8 mm]]
E-Plane Minimum Bend Radius, One Time	0.39 in [9.91 mm]
H-Plane Minimum Bend Radius, One Time	0.59 in [14.99 mm]
Maximum Operating Pressure	45 psig

Description	Flange 1	Waveguide	Flange 2
Type	Round Cover	WR-22	Round Cover
Designation	UG-383/U		UG-383/U
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-22 Seamless Flexible Waveguide 12 Inch, UG-383/U Round Cover Flange Operating From 33 GHz to 50 GHz PE-W22SF005-12](#)



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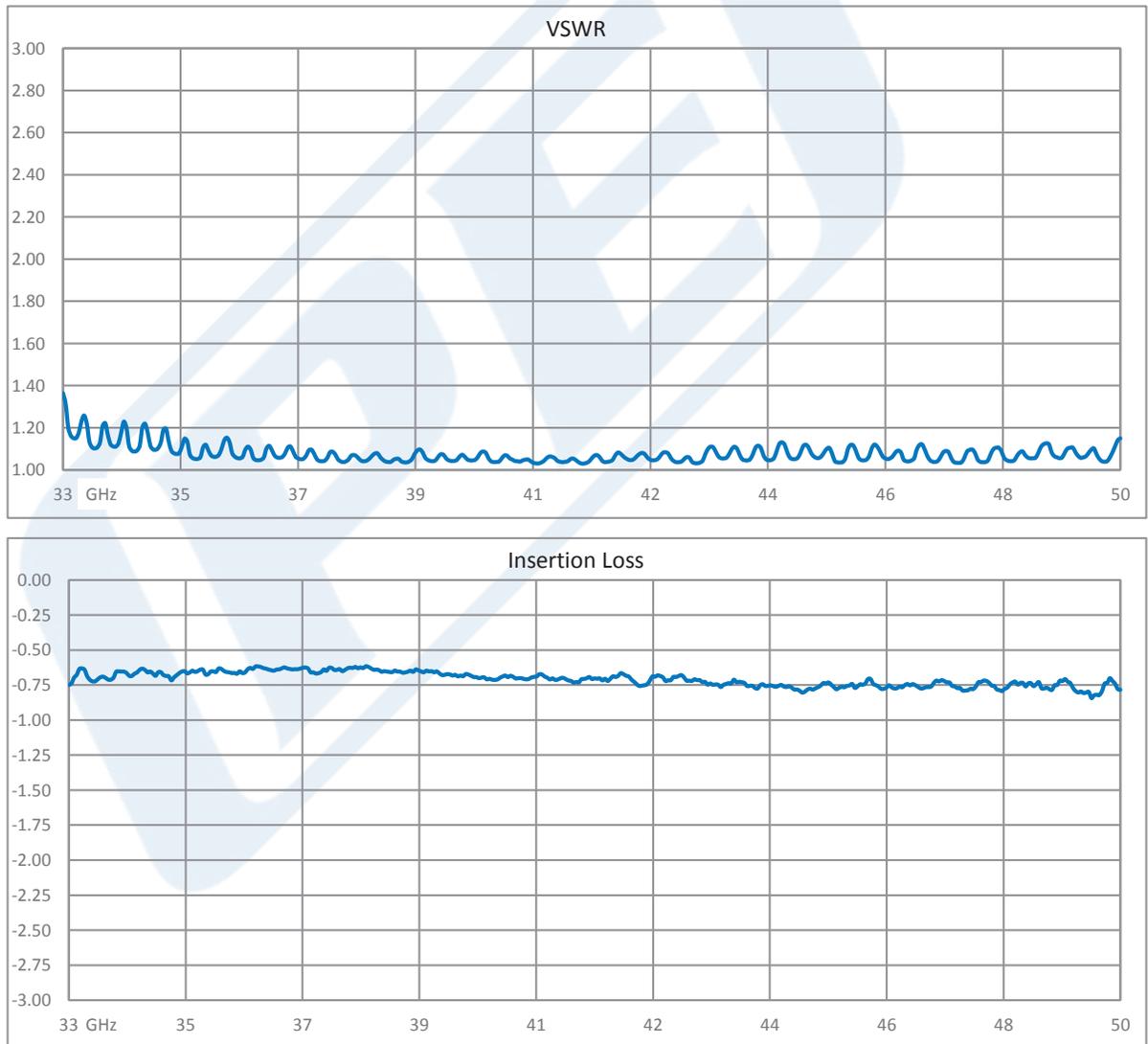
**Environmental Specifications**

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



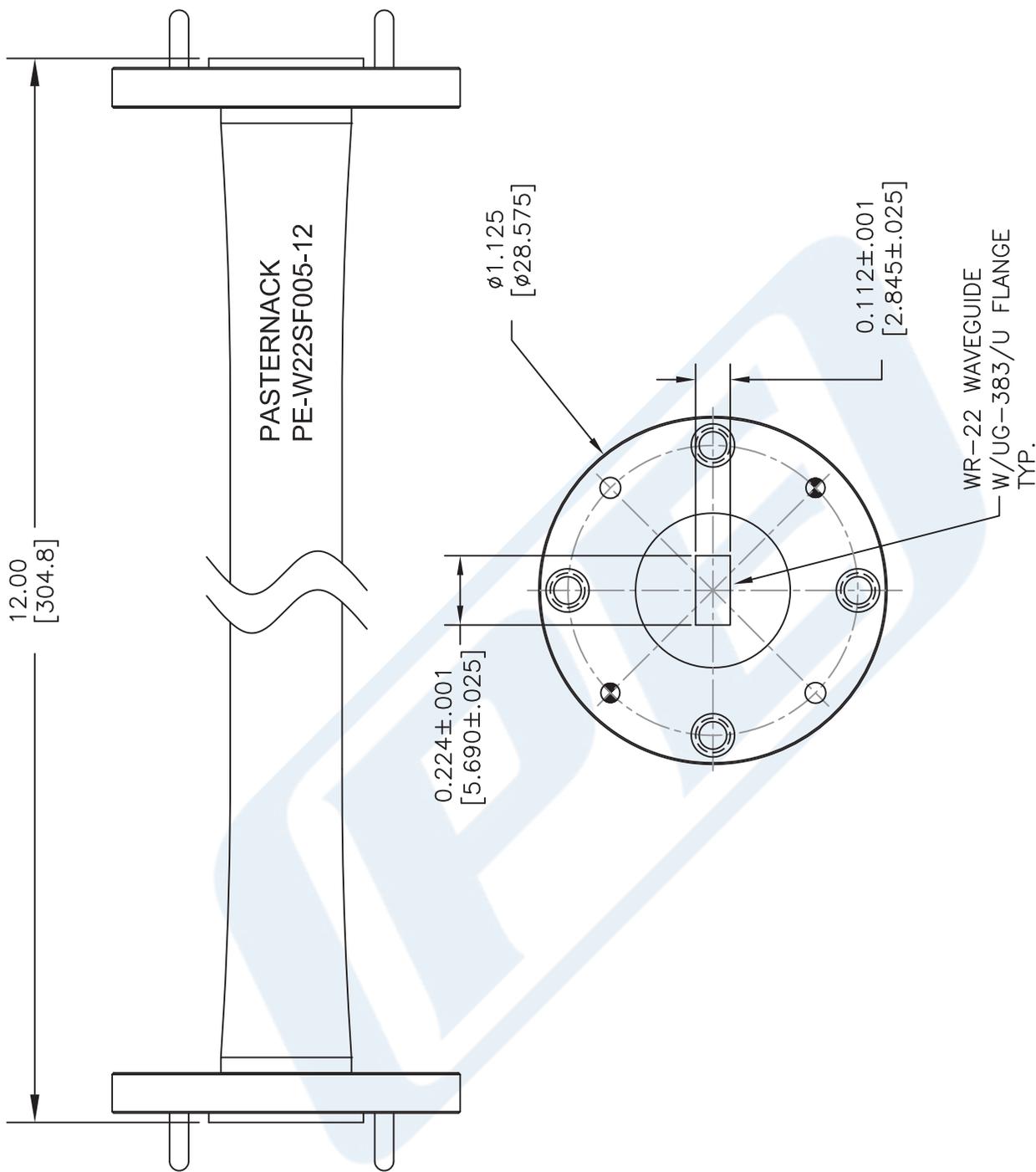
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# PE-W22SF005-12 CAD Drawing

WR-22 Seamless Flexible Waveguide 12 Inch, UG-383/U Round  
Cover Flange Operating From 33 GHz to 50 GHz



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN: inches [mm]  
TOLERANCES ARE:

DECIMALS	ANGLES	FRACTIONS
.X ±.030	±1/2°DEG.	± 1/32
.XX ±.015		
.XXX ±.005		

\* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE

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DWG TITLE  
**PE-W22SF005-12**

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].

CAGE CODE **53919**

CAD FILE 010617 SCALE N/A SIZE A 2233