



**WR-12 Waveguide Dual Polarized Scalar Feed
Horn Antenna, 60 GHz to 90 GHz Frequency
Range, 13 dBi Gain, UG-387/U Flange**

Waveguide Antennas Technical Data Sheet

PEWAN1119

Features

- 60 GHz to 90 GHz Frequency Range
- Linear and Circular Polarization
- High Port Isolation
- High Cross-Polarization Rejection

Applications

- 5G Systems
- Radar Systems
- Communication Systems
- Circular and Linear Waveform Separation and Combination

Description

Pasternack's PEWAN1119 is a WR-12 dual polarized scalar feed horn antenna that operates in the frequency range of 60 GHz to 90 GHz. PEWAN1119 features an integrated orthomode transducer that provides high port isolation and cross-polarization cancellation and a broad band scalar feed horn that provides low sidelobe levels. The antenna supports either vertical or horizontal polarized waveguide forms with a typical 30 dB cross polarization rejections, 13 dBi nominal gain at center frequency, typical 35 dB port isolation between horizontal and vertical ports, typical half power beamwidth of 40 degrees, and -25 dB sidelobe levels. The input of this antenna is a WR-12 waveguide with UG-387/U threaded flange.

Configuration

Design: WR-12 Dual Polarized Scalar Feed Horn
Polarization: Linear/Circular

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	60		90	GHz
Nominal Gain		13		dBi
Gain	11		16	dBi
Horizontal Half Power Beam Width		40		Degrees
Vertical Half Power Beam Width		40		Degrees
VSWR		1.4:1		

Mechanical Specifications

Size

Length: 2.75 in [69.85 mm]
Width: 0.8 in [20.32 mm]
Height: 0.8 in [20.32 mm]
Weight: 0.15 lbs [68.04 g]

Waveguide Interface

Waveguide Size: WR-12
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-12 Waveguide Dual Polarized Scalar Feed Horn Antenna, 60 GHz to 90 GHz Frequency Range, 13 dBi Gain, UG-387/U Flange PEWAN1119](#)



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Body Material and Plating

Aluminum, Gold

Environmental Specifications

Temperature

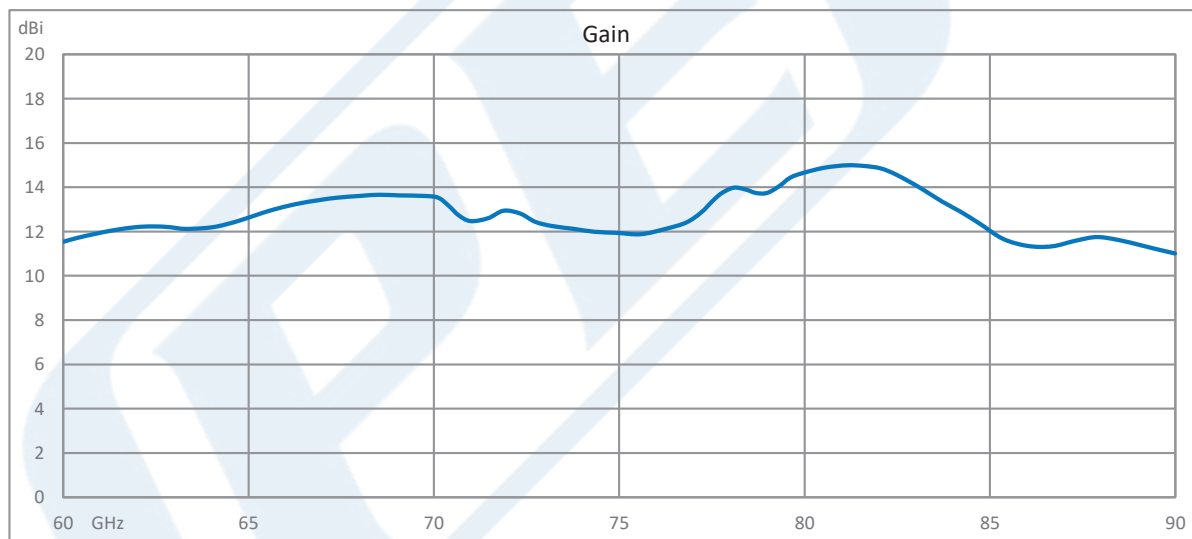
Operating Range

-40 to 85 deg C

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

Plotted and Other Data

Typical Performance Data



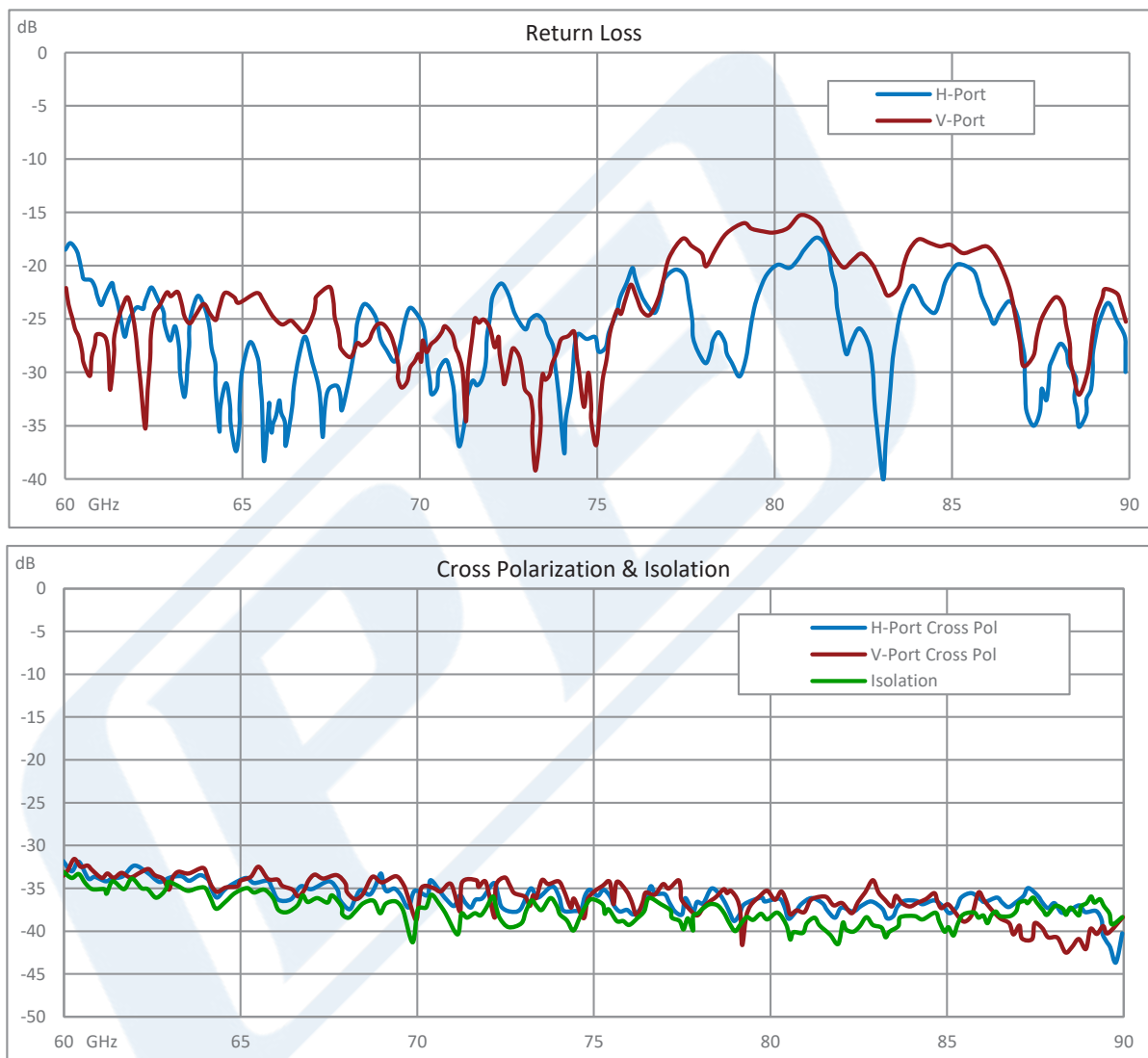
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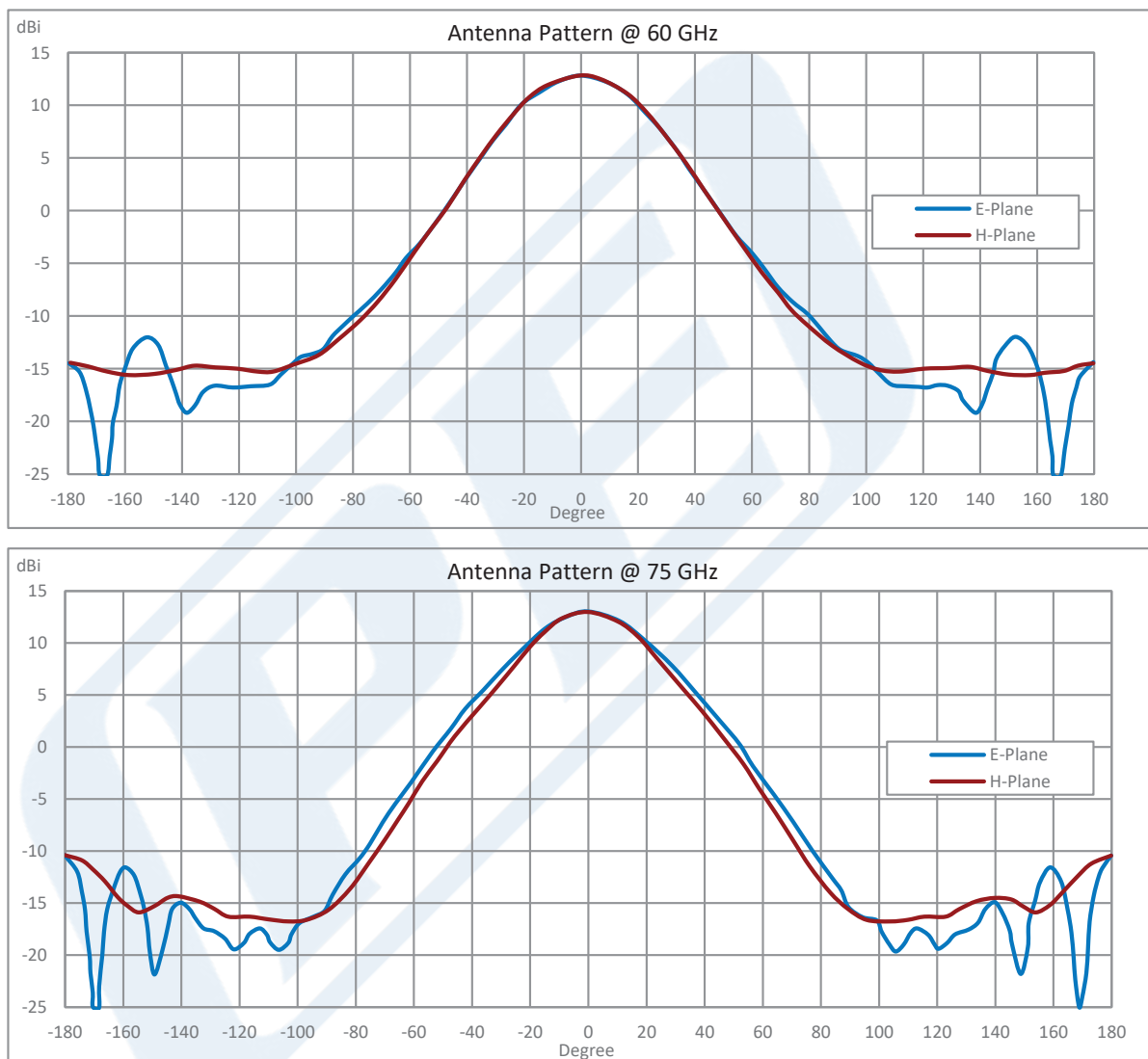
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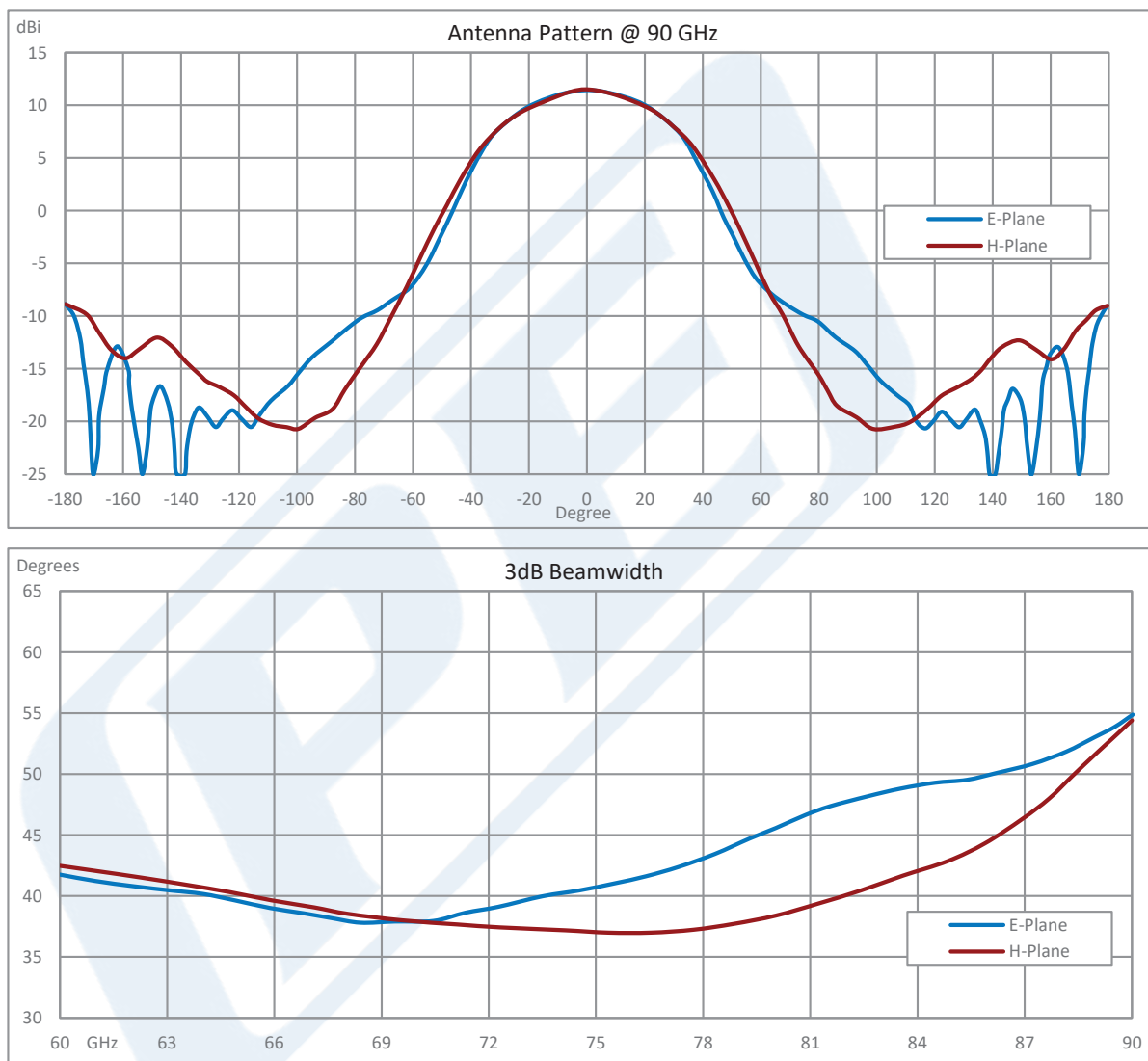
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WR-12 Waveguide Dual Polarized Scalar Feed Horn Antenna, 60 GHz to 90 GHz Frequency Range, 13 dBi Gain, UG-387/U Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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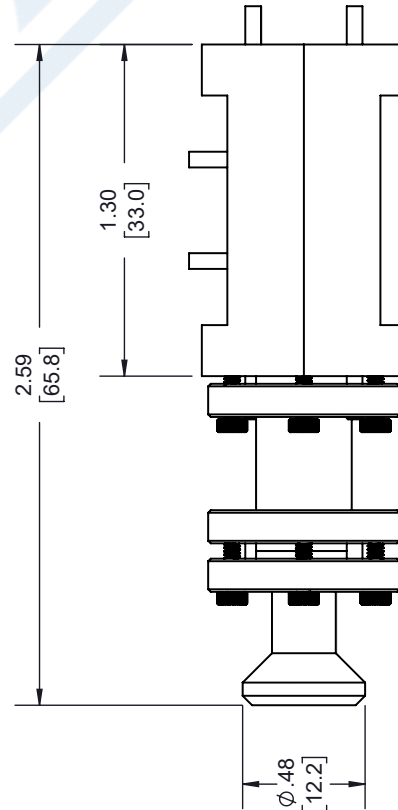
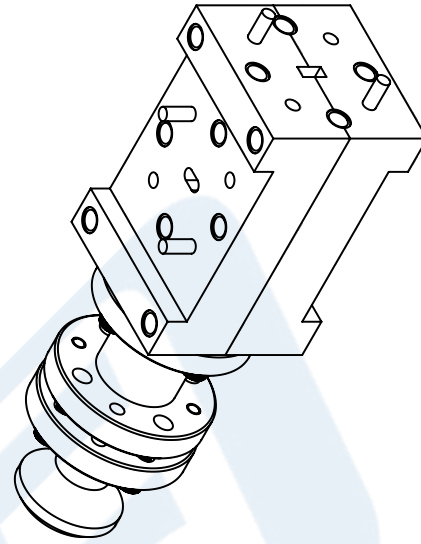
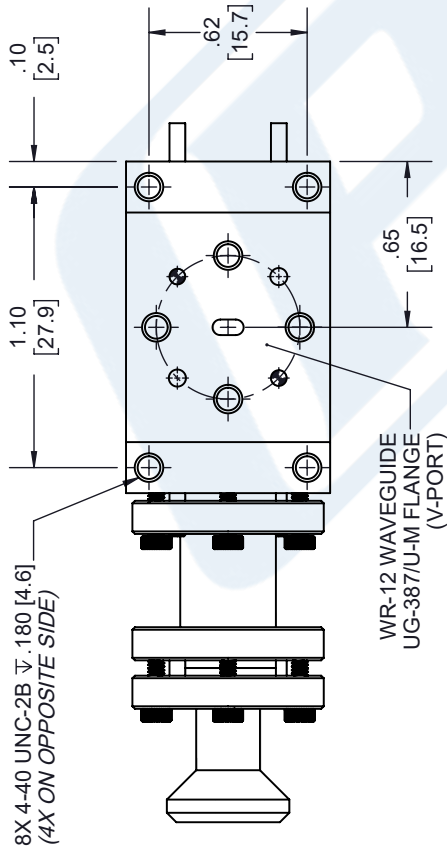
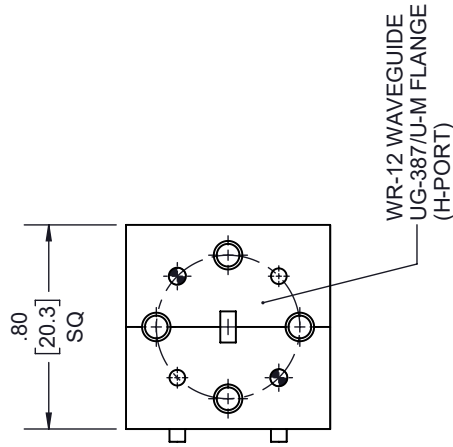
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PEWAN1119 CAD Drawing

WR-12 Waveguide Dual Polarized Scalar Feed Horn Antenna, 60 GHz to 90 GHz Frequency Range, 13 dBi Gain, UG-387/U Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/16/19	M.MILLER



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PEWAN1119
D/C: YYWW

LABEL

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X±.2 [5.08] FRACTIONS XX±.01 [.25] ±1/32 XXX±.005 [.13] ANGLES ±1°				PART NUMBER PEWAN1119				REV A			
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				SIZE [CAGE] DRAWN BY A 53919 K.DANG				PART NUMBER PEWAN1119			
THIRD-ANGLE PROJECTION											

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