



0 to 180 Degree WR-28 Waveguide Phase Shifter, From 26.5 GHz to 40 GHz, With a UG-599/U Flange

Waveguide Phase Shifters Technical Data Sheet

PE-W28PS1002

Features

- WR-28 Waveguide
- 26.5 to 40 GHz
- UG-599/U Flange
- 0.3 dB Typical Insertion Loss
- 1 Watt Power Handling
- 0 to 180 Degree Phase Shift Over the Full Band

Applications

- Instrumentation
- Precision measurements
- Prototyping and characterization

Description

The PE-W28PS1002 is a waveguide variable phase shifter that is part of a family of high performance phase shifters with a square cover per MIL-DTL-85. These phase shifters are built using low loss dielectric material, which offers minimum insertion loss. These standard terminations are offered in the Ka through W waveguide bands (18 to 110 GHz.) The phase shifters are equipped with micrometer, which allows fine control resulting in accurate and repeatable phase settings. The variable phase shifters are typically used in the test setups and prototype assemblies where accurate phase shifting is required.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
Phase Shift		0 to 180		Degrees
VSWR		1.15:1		
Insertion Loss		0.3		dB
Input Power (CW)			1	Watt

Mechanical Specifications

Size	
Length	3.5 in [88.9 mm]
Width/Dia.	1 in [25.4 mm]
Height	2.293 in [58.24 mm]
Weight	0.3755 lbs [170.32 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0 to 180 Degree WR-28 Waveguide Phase Shifter, From 26.5 GHz to 40 GHz, With a UG-599/U Flange PE-W28PS1002](#)



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Description	Flange 1	Waveguide	Flange 2
Interface	UG-599/U	WR-28	UG-599/U
Material	Brass	Brass	Brass
Plating	Gold	Gold	Gold
Plating Specification	ASTMB488	ASTMB488	ASTMB488
Finish	Gold	Gold	Gold

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

Plotted and Other Data

Notes:

0 to 180 Degree WR-28 Waveguide Phase Shifter, From 26.5 GHz to 40 GHz, With a UG-599/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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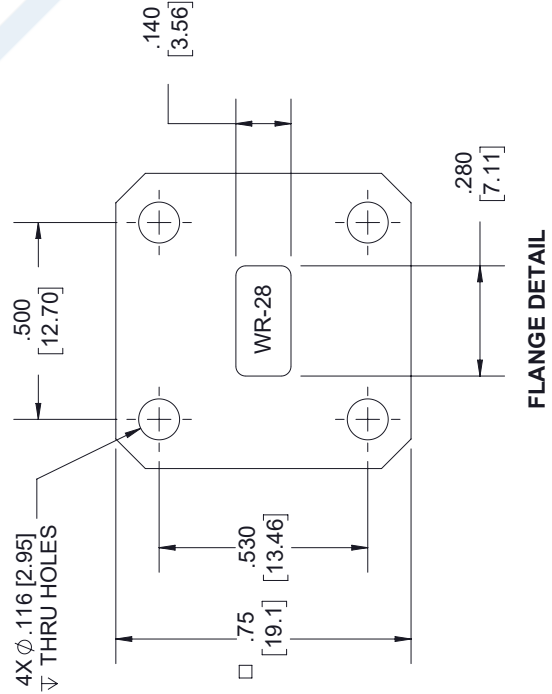
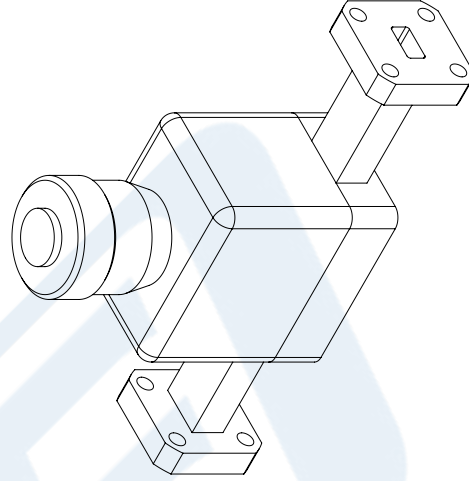
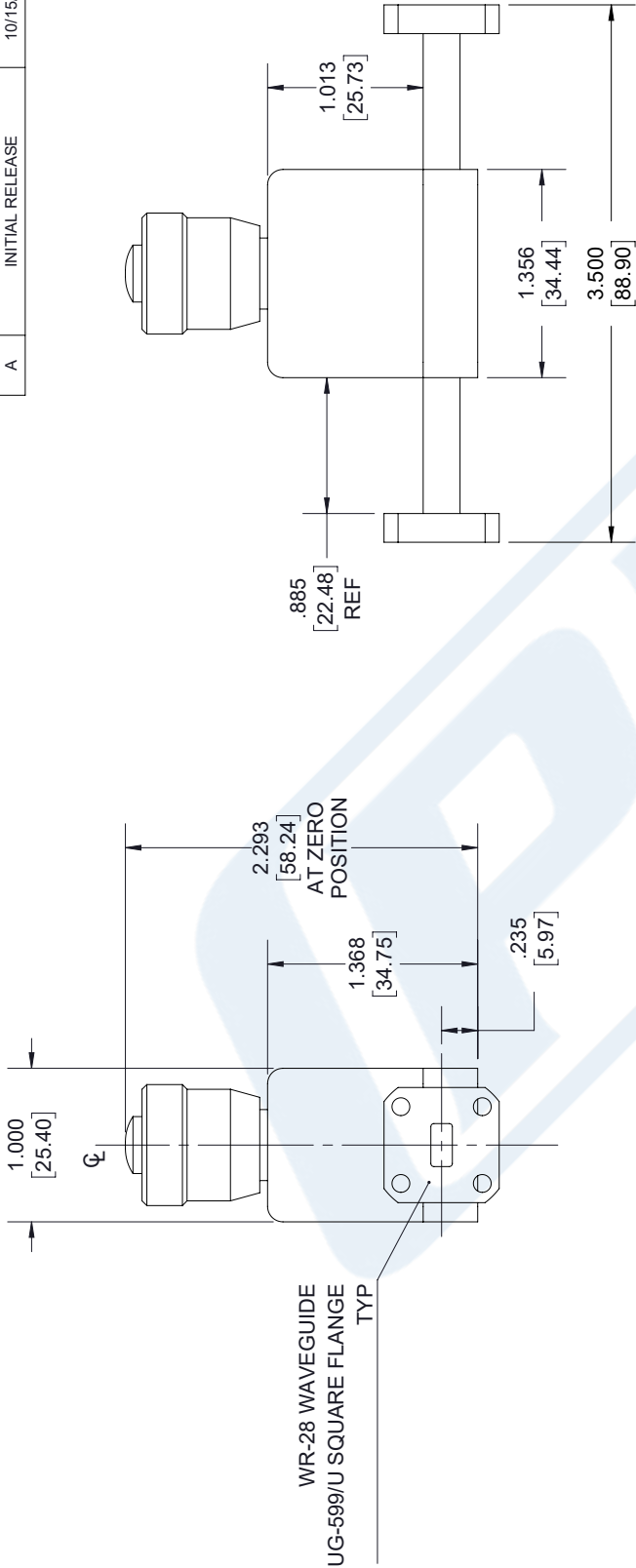
URL: <https://www.pasternack.com/0-180-wr28-waveguide-phase-shifter-26.5-40-ghz-ug599-pe-w28ps1002-p.aspx>

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PE-W28PS1002 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/15/19	S. PONG



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TOLERANCES:		SHEET 1 OF 1	
X±.2	[5.08]	SCALE N/A	
XX±.01	[.25]	REV A	
XXX±.005	[.13]	PART NUMBER PE-W28PS1002	
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