

## SMW28PS1001 DATA SHEET

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

The SMW28PS1001 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.



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Description	Min	Тур	Max	Units		
Frequency Range	26.5		40	GHz		
Phase Shift		0 to 180		Degrees		
Insertion Loss			1	dB		
Input Power (CW)			1	Watts		

## **Mechanical Specifications**

Size

 Length
 3.5 in [88.9 mm]

 Width/Dia.
 1 in [25.4 mm]

 Height
 2.29 in [58.17 mm]

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

**Compliance Certifications** (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

REACH Compliant 06/14/2014

#### **Plotted and Other Data**

Notes:



## Features:

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

## Applications:

- Instrumentation
- · Precision measurements
- Prototyping and characterization

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

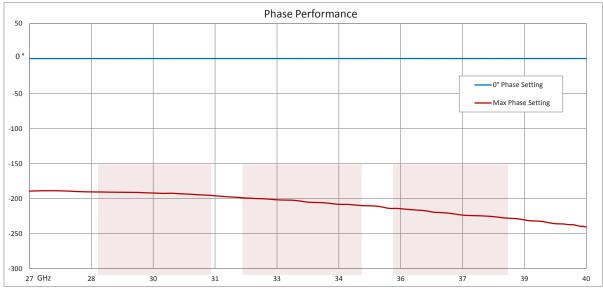
Tel: 1-800-715-4396 / (972) 649-6678

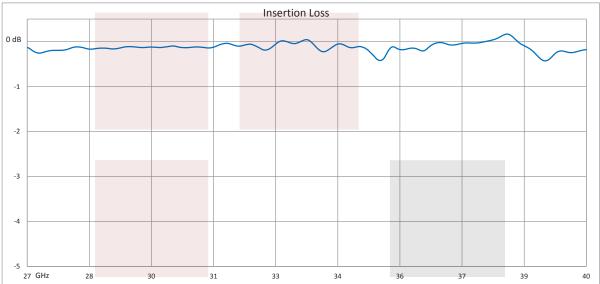
Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





## **Typical Performance Data**









WR-28 Waveguide Phase Shifter 0 to 180 Degree With a UG-599/U Flange From 26.5 GHz to 40 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

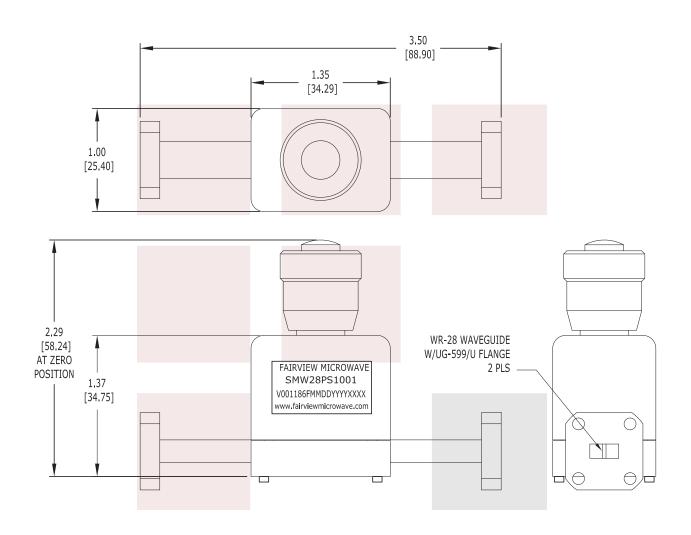
For additional information on this product, please click the following link: WR-28 Waveguide Phase Shifter 0 to 180 Degree With a UG-599/U Flange From 26.5 GHz to 40 GHz SMW28PS1001

The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: http://www.fairviewmicrowave.com/wr28-waveguide-phase-shifter-0-180-ug599-26.5-40-ghz-smw28ps1001-p. aspx

described herein.	It may be ned	essary to ma	ake modifications t	o the part and/o	or the documenta	ation of the part	, in order
to implement imp	rovements. Fa	irview Microv	wave reserves the i	ight to make su	ch changes as re	quired. Unless	otherwise
stated, all specific	cations are non	ninal. Fairvie	ew Microwave does	not make any	representation o	r warranty rega	rding the
suitability of the I	part described	herein for an	ny particular purpo	se, and Fairview	Microwave does	not assume an	y liability
arising out of the	use of any part	t or documen	itation.				





UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN: inches
TOLERANCES ARE: [mm]
.XX ± .10 [± 2.54]
.XXX ± .005 [± .127]

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

FAIRVIEW MICROWAVE INC.  ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].					
WR-28 Waveguide Phase Shifter 0 to 180 Degree With a UG-599/U Flange From 26.5 GHz to 40 GHz	DWG NO SMW28PS1001			CAGE CODE 3FKR5		
	CAD FILE 12181	5 SHEET	SCAL	E N/A	SIZE A	2233