

SMW19PS1001 DATA SHEET

WR-19 Waveguide Phase Shifter 0 to 180 Degree With a UG-383/U-Mod Flange From 40 GHz to 60 GHz

The SMW19PS1001 is a waveguide variable phase shifter that is part of a family of high performance phase shifters with a round flange 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.



| Description | Min | Тур | Max | Units | |
|------------------|-----|----------|------------|-------|--|
| Frequency Range | 40 | | 60 | GHz | |
| Phase Shift | | 0 to 180 | 80 Degrees | | |
| Insertion Loss | | | 1 | dB | |
| Input Power (CW) | | | 1 | Watts | |

Mechanical Specifications

Size

 Length
 2.5 in [63.5 mm]

 Width/Dia.
 1 in [25.4 mm]

 Height
 2.29 in [58.17 mm]

| Description | Flange 1 | Waveguide | Flange 2 |
|---------------|--------------|-----------|--------------|
| Interface | UG-383/U-Mod | WR-19 | UG-383/U-Mod |
| 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-19
- 40 to 60 GHz
- UG-383/U-Mod 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

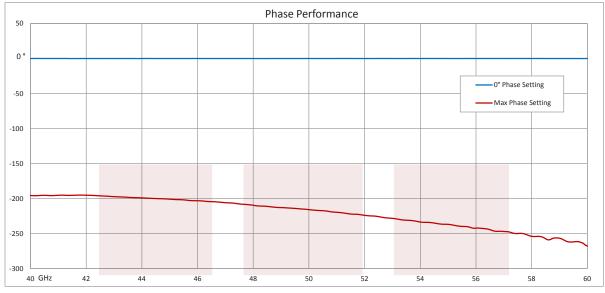
Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

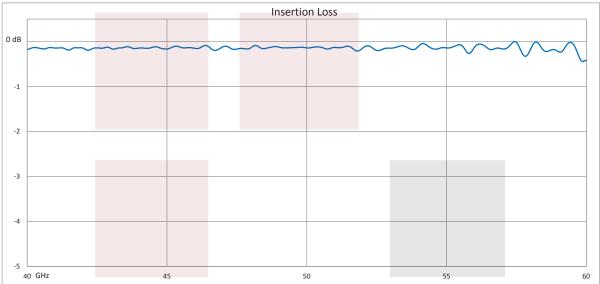
Tel: 1-800-715-4396 / (972) 649-6678

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



Typical Performance Data





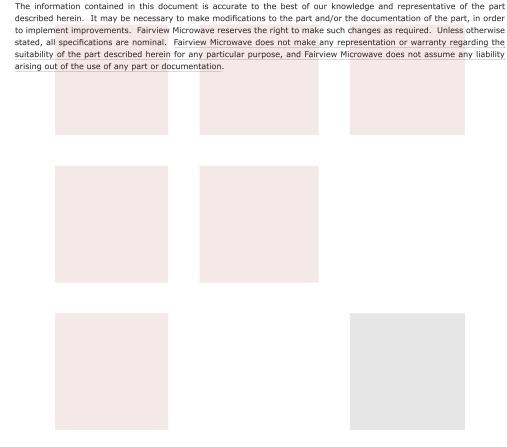




WR-19 Waveguide Phase Shifter 0 to 180 Degree With a UG-383/U-Mod Flange From 40 GHz to 60 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

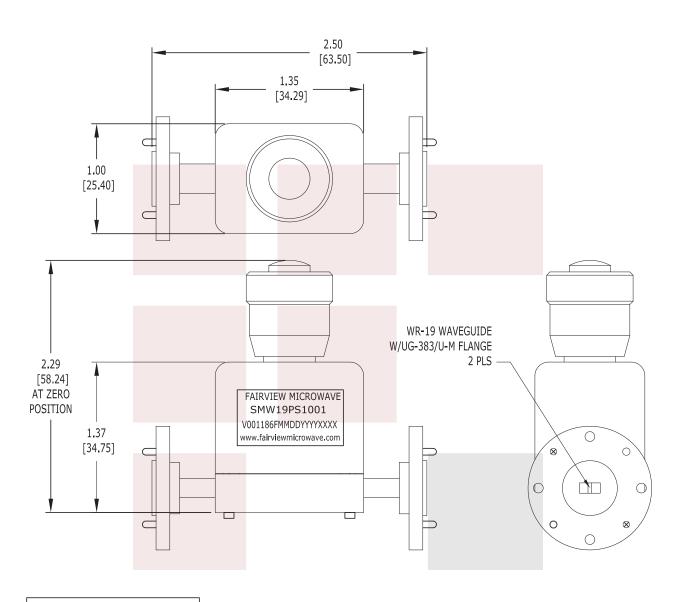
For additional information on this product, please click the following link: WR-19 Waveguide Phase Shifter 0 to 180 Degree With a UG-383/U-Mod Flange From 40 GHz to 60 GHz SMW19PS1001

URL: http://www.fairviewmicrowave.com/wr19-waveguide-phase-shifter-0-180-ug383mod-40-60-ghz-smw19ps1001-p. aspx









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-19 Waveguide Phase Shifter 0 to 180 Degree With a UG-383/U-Mod Flange From 40 GHz to 60 GHz | DWG NO SMW19PS1001 | | | CAGE CODE 3FKR5 | | |
| | CAD FILE 121815 | SHEET | SCAL | E N/A | SIZE A | 2233 |