# **WR-03 Compact Micrometer Driven Phase Shifter**

**STP-18-03-M1-C-1.2** is a WR-03 compact micrometer driven phase shifter that covers the frequency range from 220 to 330 GHz. The phase shifter features a high resolution precision micrometer which allows for finer adjustment sensitivity than a standard micrometer. The phase shifter is an ideal piece of equipment in waveguide systems where broadband phase shifting is required. The phase shifter exhibits a 2.5 dB typical insertion loss and an adjustable phase range of up to 180 degrees.



**Electrical Specifications:** 

Parameter	Minimum	Typical	Maximum
Frequency Range	220 GHz		330 GHz
Insertion Loss	KAIION	2.5 dB	E I E R VV A
Phase Shifting Range	0°		180°
Return Loss		20 dB	
Power Handling			100 mW (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

# **Mechanical Specifications:**

Item	Specification	
RF Ports	WR-03 Waveguide with UG-387/U-M Anti-Cocking Flange	
Setting Type	Micrometer Head	
Insertion Length	1.20"	
Material	Aluminum	
Finish	Gold Plated	
Weight	3.5 Oz	
Outline	TA-M03-A-1.2	

### **ECCN**

EAR99

#### **FEATURES**

- Full Band Coverage
- Compact Size
- High Resolution Micrometer
- Low Insertion Loss

## **APPLICATIONS**

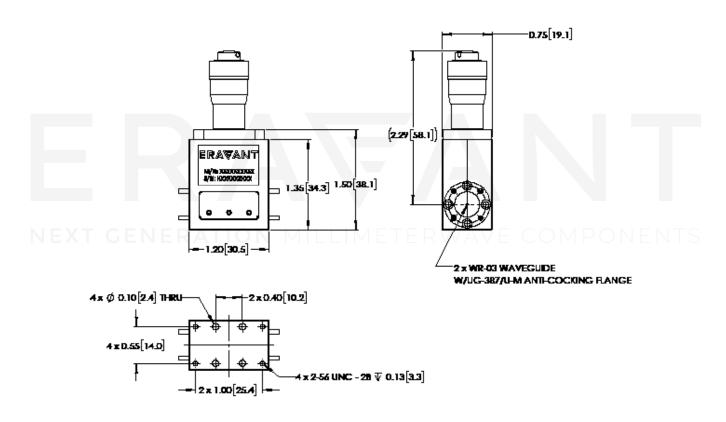
- Test Lab
- Instrumentations
- Manual Test Set

SUPPLEMENTAL DETAILS



## **Mechanical Outline:**

Unless otherwise specified, all dimensions are in inches [millimeters])



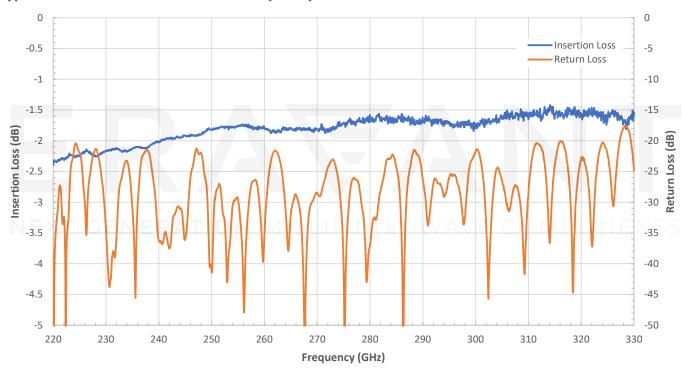
#### NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

#### **CAUTION:**

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm).
  Torque wrench model <u>SCH-06004-S1</u> is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model <u>SCH-08008-S1</u> is highly recommended.

# **Typical Measured Performance vs Frequency**



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