



E Band Waveguide Rotary Joint, 60 to 90 GHz, Circular Waveguide

Description:

SAN-60390310-125I125I-S1 is an E-band rotary joint that covers the frequency range of 60 to 90 GHz. The rotary joint provides consistently low insertion loss while mechanically rotating at the speed of 10 turns or higher per second. The rotary joint incorporates high precision bearing and propriety mechanical design to ensure smooth mechanical rotation. The rotary joint is equipped with two $\varnothing 0.125''$ circular waveguides with UG-387/U-M anti-cocking flanges. The rotary joint supports circular polarized waveforms.



Features:

- Frequency Range: 60 to 90 GHz
- Low Insertion Loss
- Inline Port Configuration
- No Contact Mechanism

Applications:

- 5G Systems
- Test Equipment
- Sub-assemblies
- Antenna Range

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	60 GHz		90 GHz
Insertion Loss		1.0 dB	
Return Loss		15 dB	
Rotating Speed		10 Turns/Second	
Waveform Supported	Circular Polarized		
Power Handling			10 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

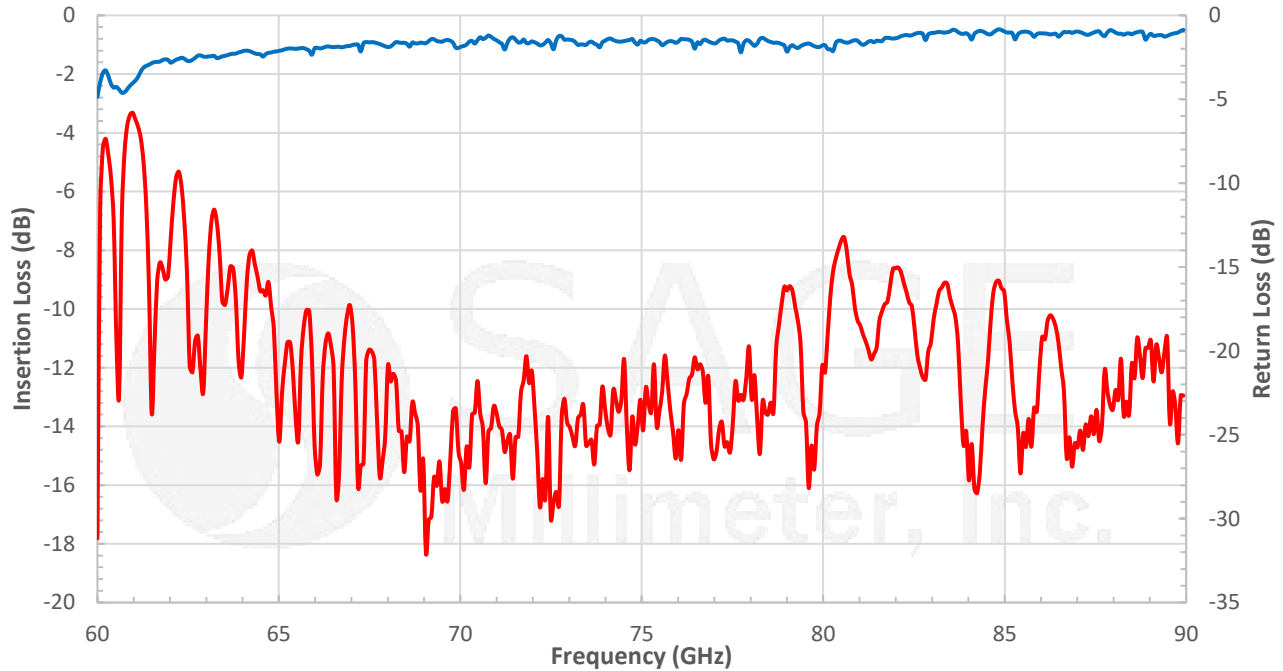
Item	Specification
RF Connectors	0.125" Dia Circular Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	8 Oz
Size	1.34" (L) x 1.50" (\varnothing)
Outline	AN-CEI-125



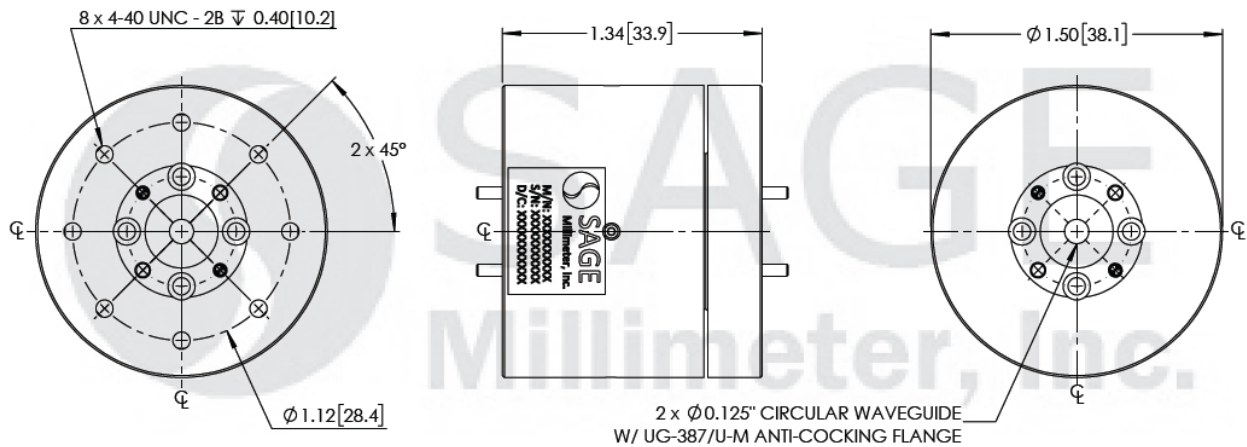


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Measured Performance vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will cause performance degradation and possible device damage.



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