SWB-12090-TB-0.40

Rev 1.0

WR-12 Compact Waveguide Twist, 90°, 0.40”

Description:

Model SWB-12090-TB-0.40 is a WR-12, 90°, compact waveguide twist with a UG-387/U-M flange on one end. The opposite end is compatible with a UG-387/U-M flange with 5/64 hex socket captive waveguide screws for attachment. The overall length of the twist is 0.40”. The waveguide twist is manufactured through a precision machining process to ensure high quality and ruggedness. The waveguide twist is offered to cover the frequency range of 60 to 90 GHz.

Features:

- Frequency Coverage: 60.0 to 90.0 GHz
- Rugged Waveguide Configuration
- Low Insertion Loss
- Compact Size

Applications:

- Test Instrumentation
- Sub-assemblies
- Lab Use

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	60 GHz		90 GHz
Insertion Loss		0.2 dB	
Return Loss		20 dB	
Specification Temperature		+25 ˚C	
Operating Temperature	-40 ˚C		+85 ˚C

Mechanical Specifications:

Item	Specification
Waveguide Size	WR-12 Waveguide with UG-387/U-M Flange
Twist Angle	90 Degrees
Insertion Length	0.40”
Material	Brass
Finish	Gold Plated
Weight	0.6 Oz
Outline	WB-TE-0.40

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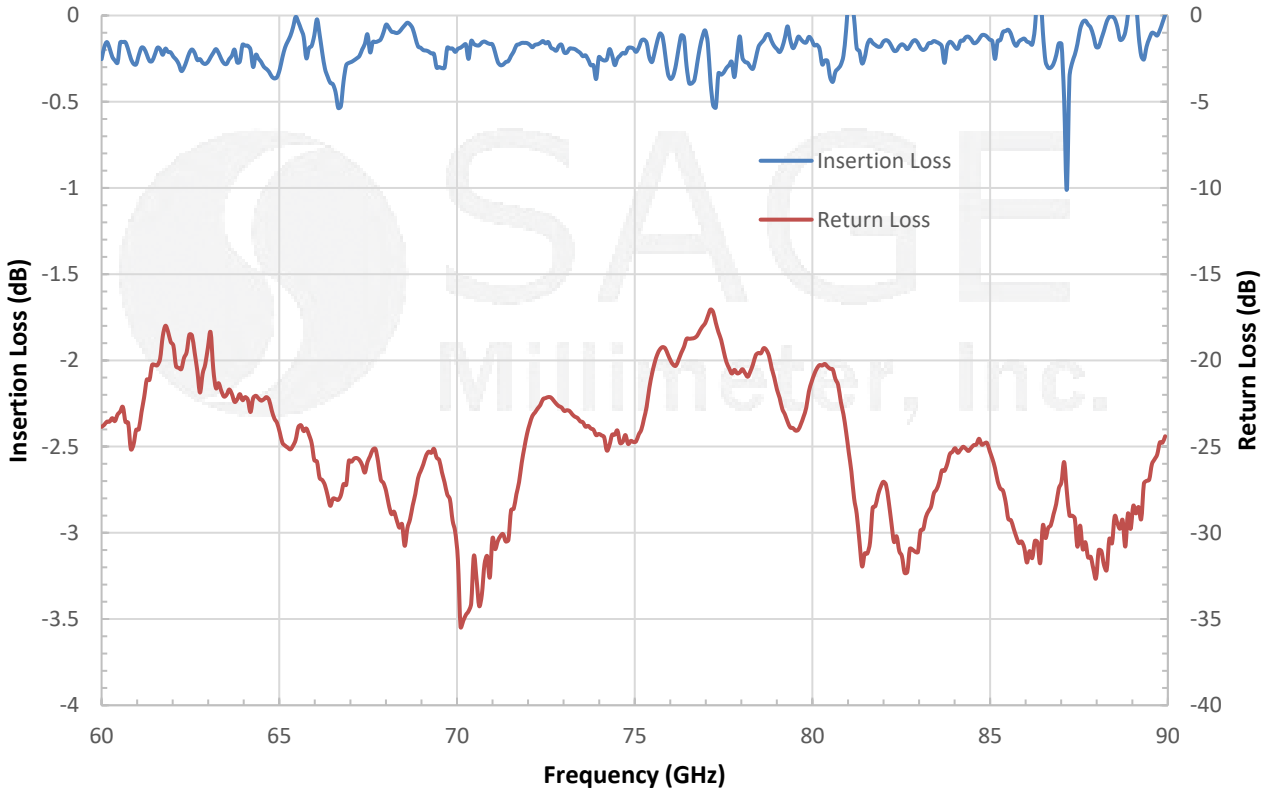
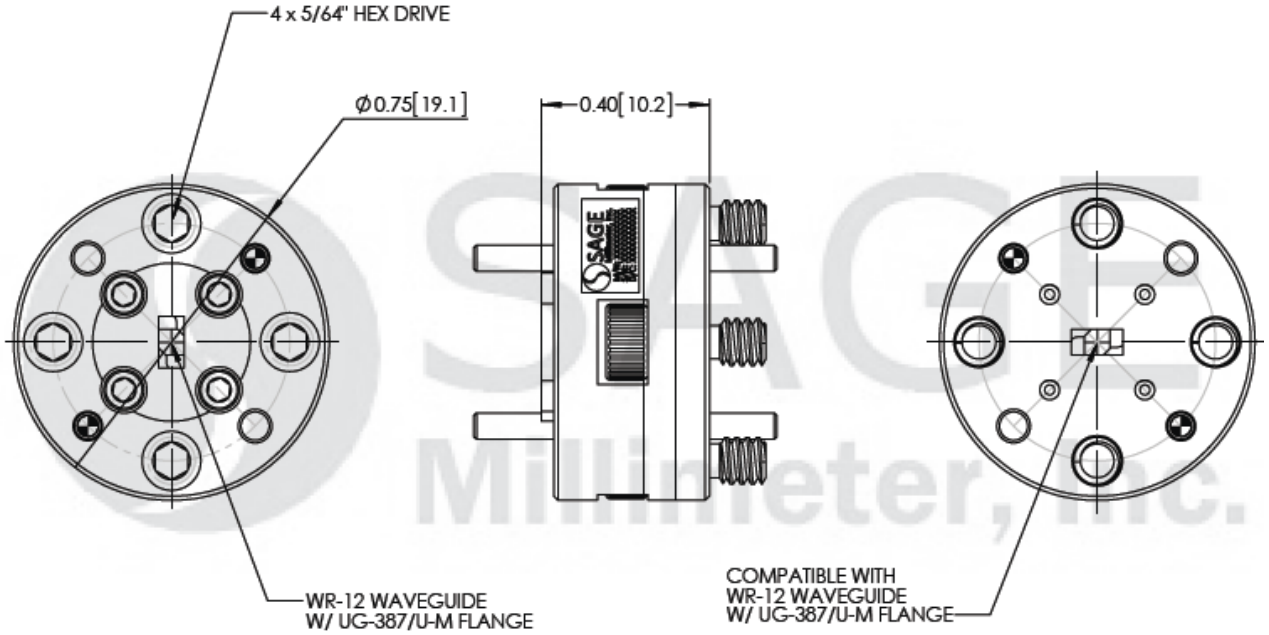
Typical Insertion and Return Loss vs. Frequency



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



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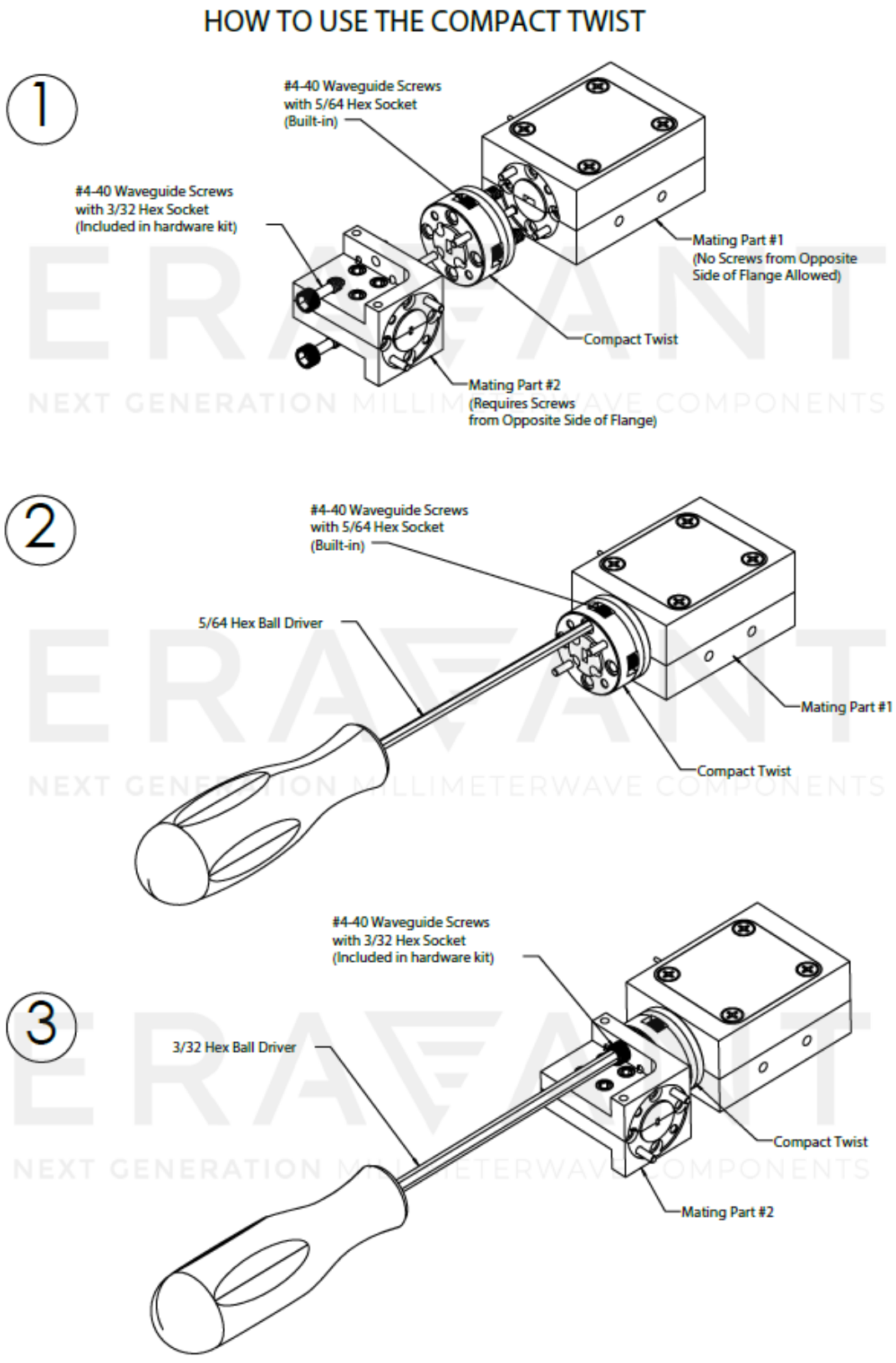

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Note:

- A 5/64 hex screwdriver is required to access the built-in 5/64 hex socket waveguide screws.
- For more information on how to access the 5/64 hex socket waveguide screws, please see this blog: **https://www.eravant.com/where-is-the-5-64-waveguide-screw-supposed-to-be-used**
- 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.
- Eravant 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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