STQ-WB-08090-T1-1.0

F-Band Waveguide Twist, 90 Degrees, 1”, Precision Machined, Metrology Grade

STQ-WB-08090-T1-1.0 is a 90 degree, F-band waveguide twist with UG-387/U-M precision anti-cocking flanges. The waveguide twist covers the frequency range of 90 to 140 GHz. The waveguide twist is manufactured with precision machining as a split-block body, which results in a robust, reinforced mechanical structure that will not flex or bend compared to traditional waveguide sections made with thin-wall tubing and brazed joints. Other lengths are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	90 GHz		140 GHz
Insertion Loss*		1.4 dB	
Return Loss		18 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*Performance may be reduced at band edges.

Mechanical Specifications:

Item	Specification
Waveguide Port	WR-08 Waveguide with UG-387/U-M Precision Anti-Cocking Flange
Length (L)	1.0”
Material	Brass
Finish	Gold Plated
Weight	1.0 Oz
Outline	WB-TF-A-SB-L

ECCN

EAR99

FEATURES

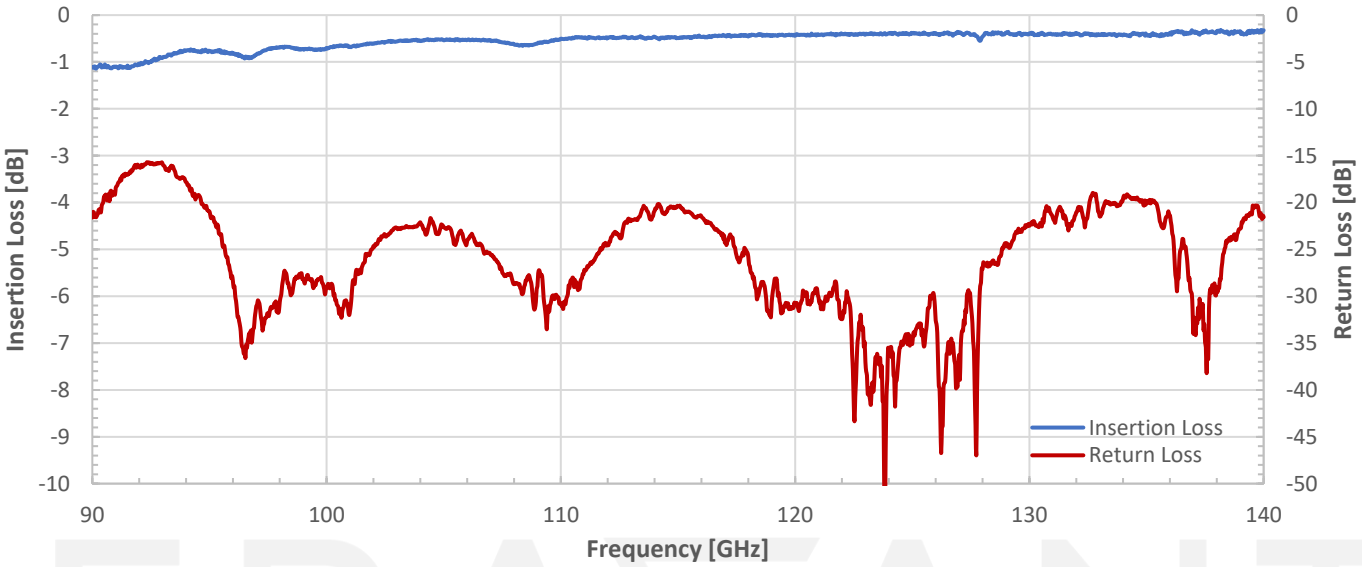
- Frequency Range: 90 to 140 GHz
- Sturdy Split-Block Mechanical Structure

APPLICATIONS

- Test Labs
- Instrumentations
- Sub-assemblies

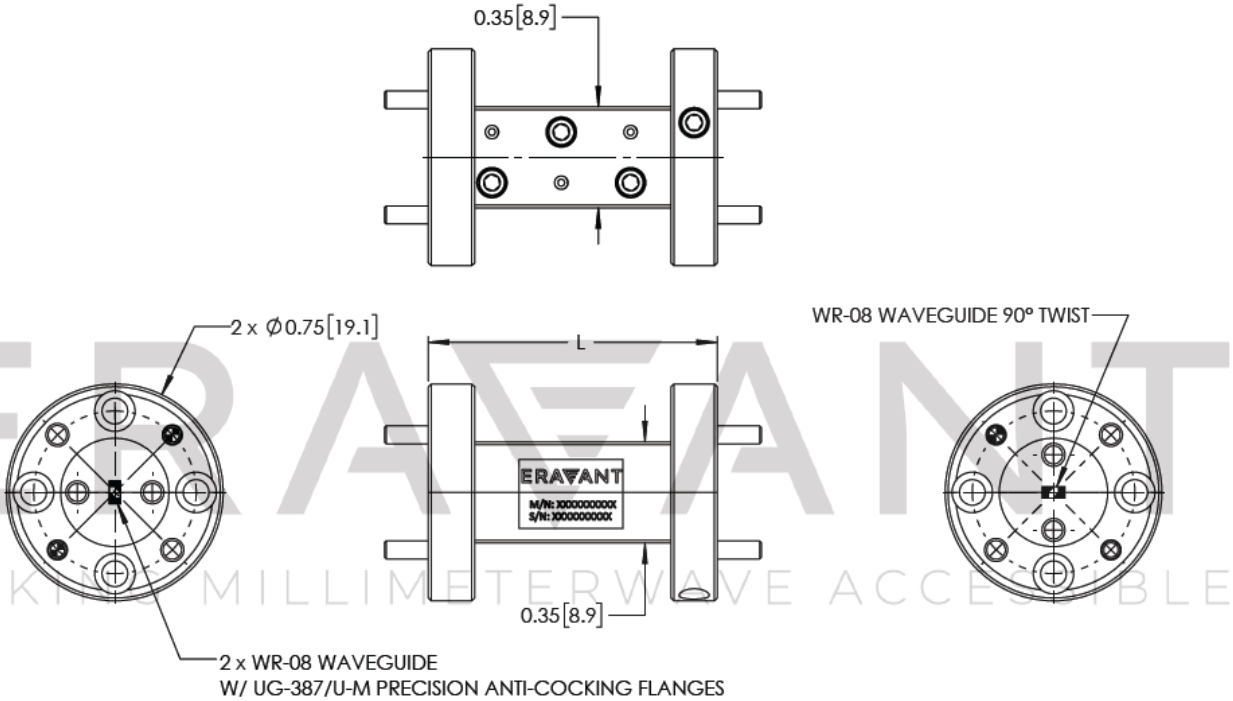
SUPPLEMENTAL DETAILS

Typical Performance vs Frequency



Mechanical Outline:

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



NOTES:

LENGTH "L" IS CUSTOMIZABLE

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.

MAKING MILLIMETERWAVE ACCESSIBLE