STQ-WB-06090-E1

WR-06 E-Plane Waveguide Bend, 90°, Precision Machined

STQ-WB-06090-E1 is a 90°, WR-06 E-plane waveguide bend with UG-387/U-M Anti-Cocking flanges. The bend radius is 0.75”. The waveguide bend covers the frequency range of 110 to 170 GHz. The waveguide bend 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 bend angles and bend radius are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	110 GHz		170 GHz
Insertion Loss*		1.5 dB	
Return Loss		23 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-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Bend Plane	E-Plane
Bend Angle	90°
Bend Radius Length (A)	0.75”
Bend Radius Length (B)	0.75”
Material	Brass
Finish	Gold Plated
Weight	1.2 Oz
Outline	WB-ED-A-SB-L

ECCN

EAR99

FEATURES

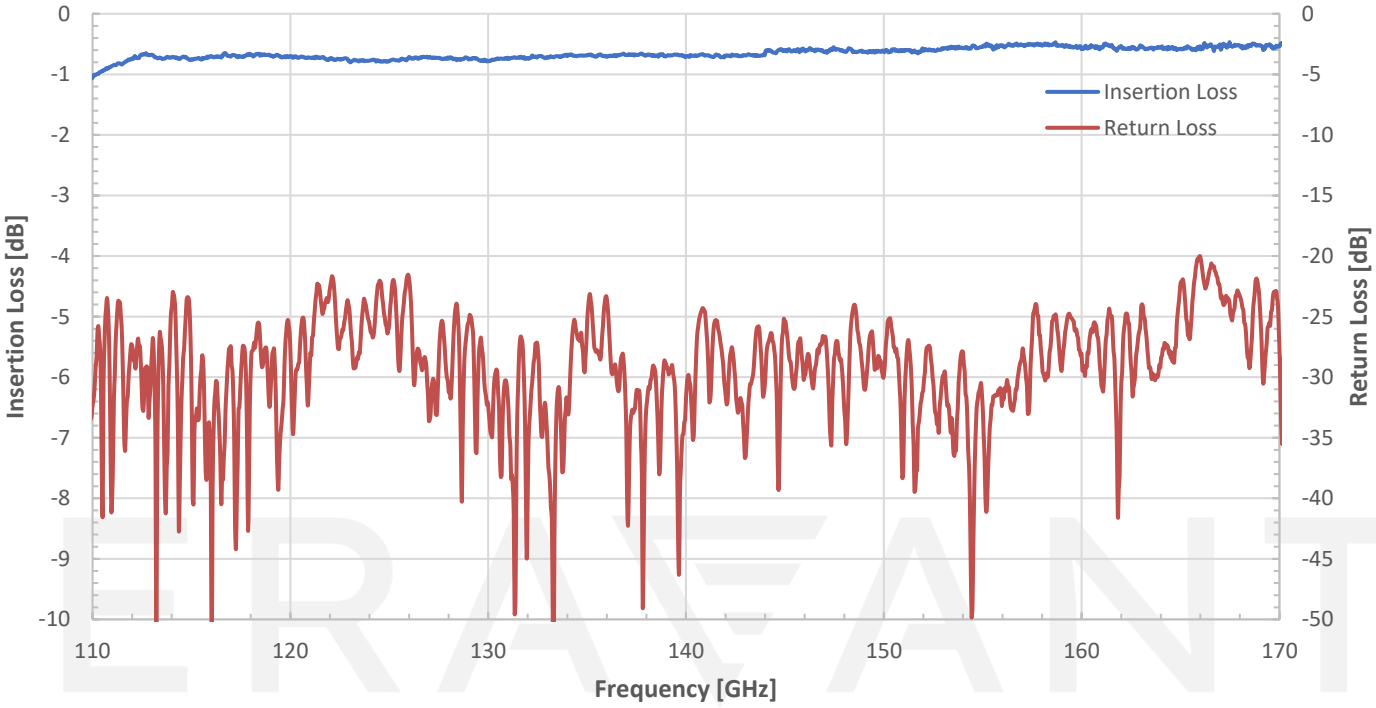
- Frequency Range: 110 to 170 GHz
- Sturdy Split-Block Mechanical Structure

APPLICATIONS

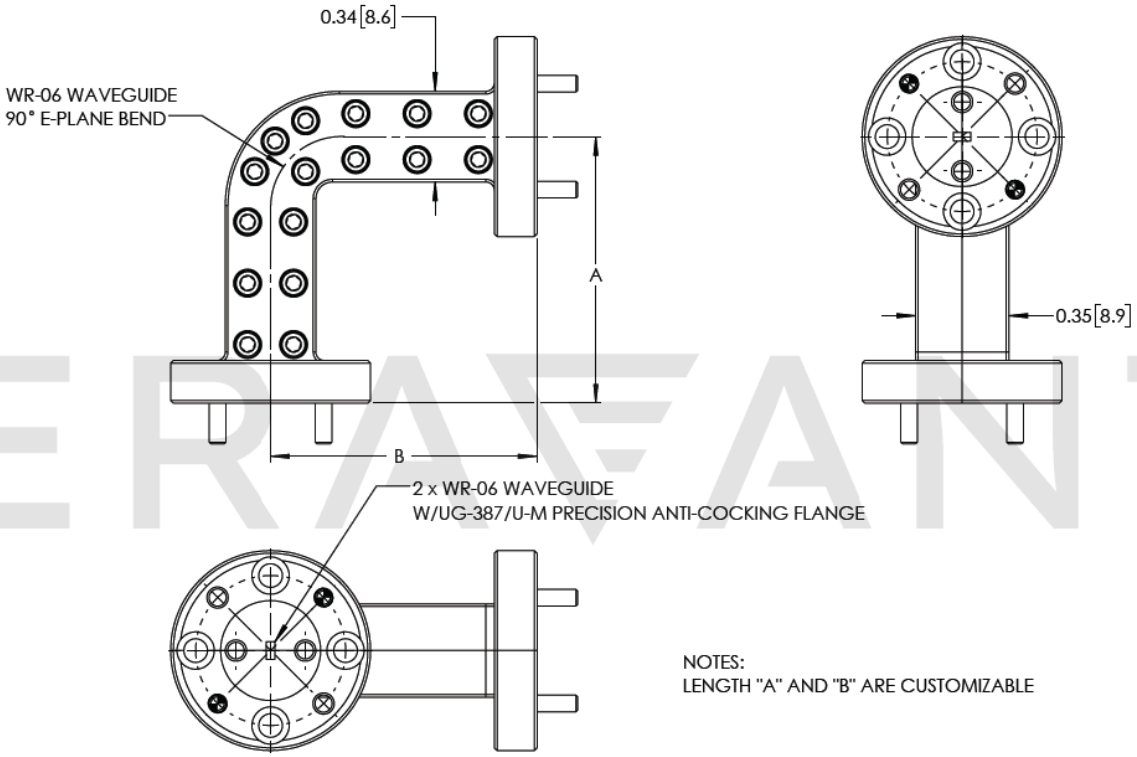
- Test Instrumentation
- Sub-assemblies

SUPPLEMENTAL DETAILS

Typical Performance vs Frequency



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.

MAKING MILLIMETERWAVE ACCESSIBLE