

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

Description:

Model STQ-WB-06090-H1-1.0 is a 90°, WR-06 H-plane waveguide bend with UG-387/U-M Anti-Cocking flanges. The bend radius is 1.0". 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.



Features:

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

Applications:

- Test Instrumentation
- Sub-assemblies

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.

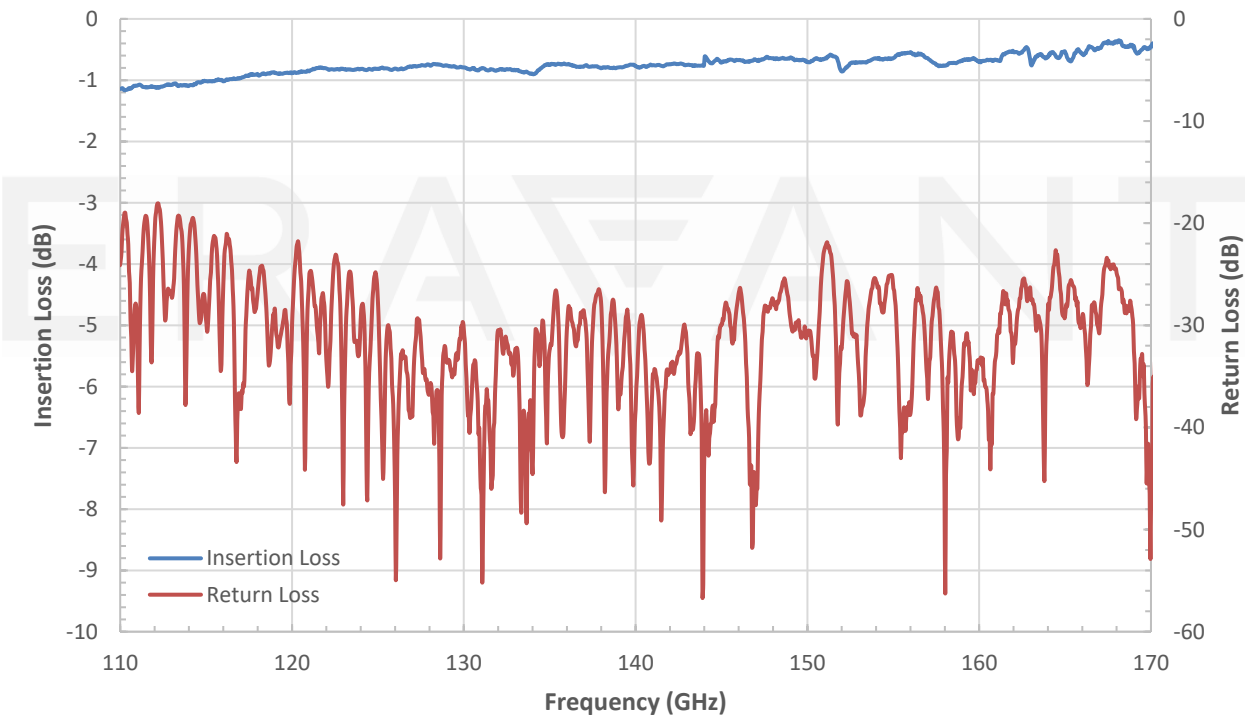
Mechanical Specifications:

Item	Specification
Waveguide Size	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Bend Plane	H-Plane
Bend Angle	90 Degrees
Bend Radius Length (A)	1.0"
Bend Radius Length (B)	1.0"
Material	Brass
Finish	Gold Plated
Weight	1.5 oz.
Outline	WB-HD-A-SB-L

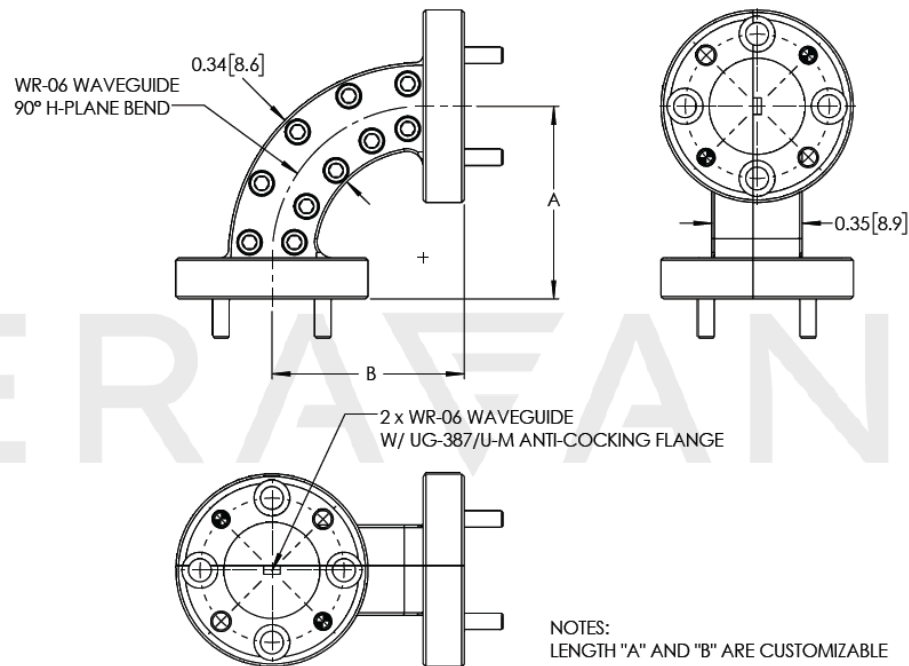


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Typical Performance vs Frequency



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



www.eravant.com | 501 Amapola Ave, Torrance, CA 90501
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com

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Note:

- All data are presented using a limited sample lot. Actual data may vary unit to unit.
- 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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