SWP-75311408-10-E2-H-WPC

WR-10 Waveguide Power Divider, 8-Way, 75 to 105 GHz

SWP-75311408-10-E2-H-WPC is a W band, 8-way in-line waveguide power divider that operates across the frequency range of 75 to 105 GHz. The ports are well balanced and in phase for either power dividing or power combining applications across the band. The power divider features a 90˚ twist between the input and output ports for convenient sub-assembly configurations. All ports are WR-10 waveguides and UG-387/U-M flanges. Other configurations are available under different model numbers.

Electrical Specifications:

Parameter			Minimum	Typical	Maximum
Frequency Range	75-85 GHz	Insertion Loss*		8 dB	
		Power Unbalance		±1 dB	
		Input Return Loss		10 dB	
		Output Return Loss		5 dB	
	85-105 GHz	Insertion Loss		4 dB	
		Power Unbalance		±1 dB	
		Input Return Loss		10 dB	
		Output Return Loss		5 dB	
	75-105 GHz	Iso. (Adj. Ports)		14 dB	
		Iso. (Non-Adj. Ports)		25 dB	
Specification Temperature				+25°C	
Operating Temperature			-40°C		+85°C

*Performance may be reduced at band edges.

Mechanical Specifications:

Item	Specification
RF Ports	WR-10 Waveguide with UG-387/U-M Flange
Material	Brass
Finish	Gold Plated
Weight	130 Oz
Outline	WP-W8I-T-1.85

ECCN

EAR99

FEATURES

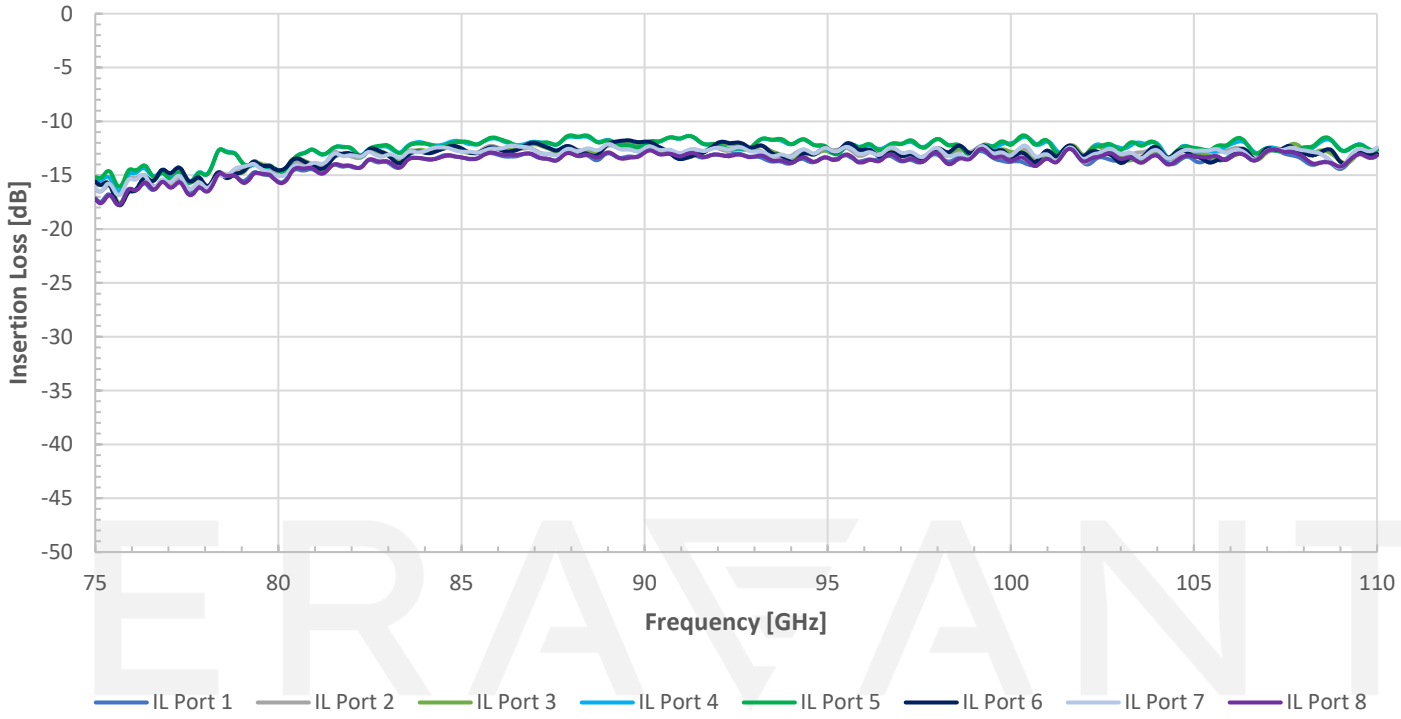
- 90° H-Plane to E-Plane Twist
- Inline Package

APPLICATIONS

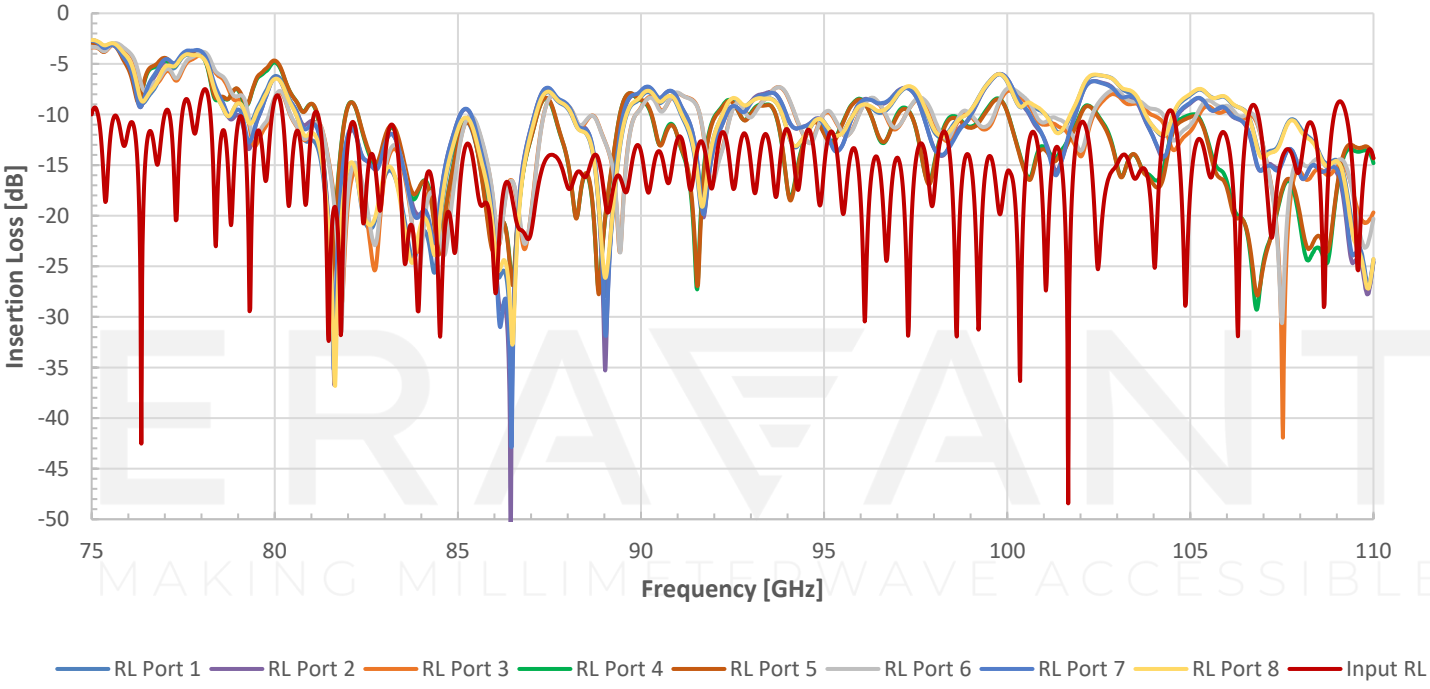
- Power Combing and Dividing
- Power Amplifiers
- Sub-assemblies

SUPPLEMENTAL DETAILS

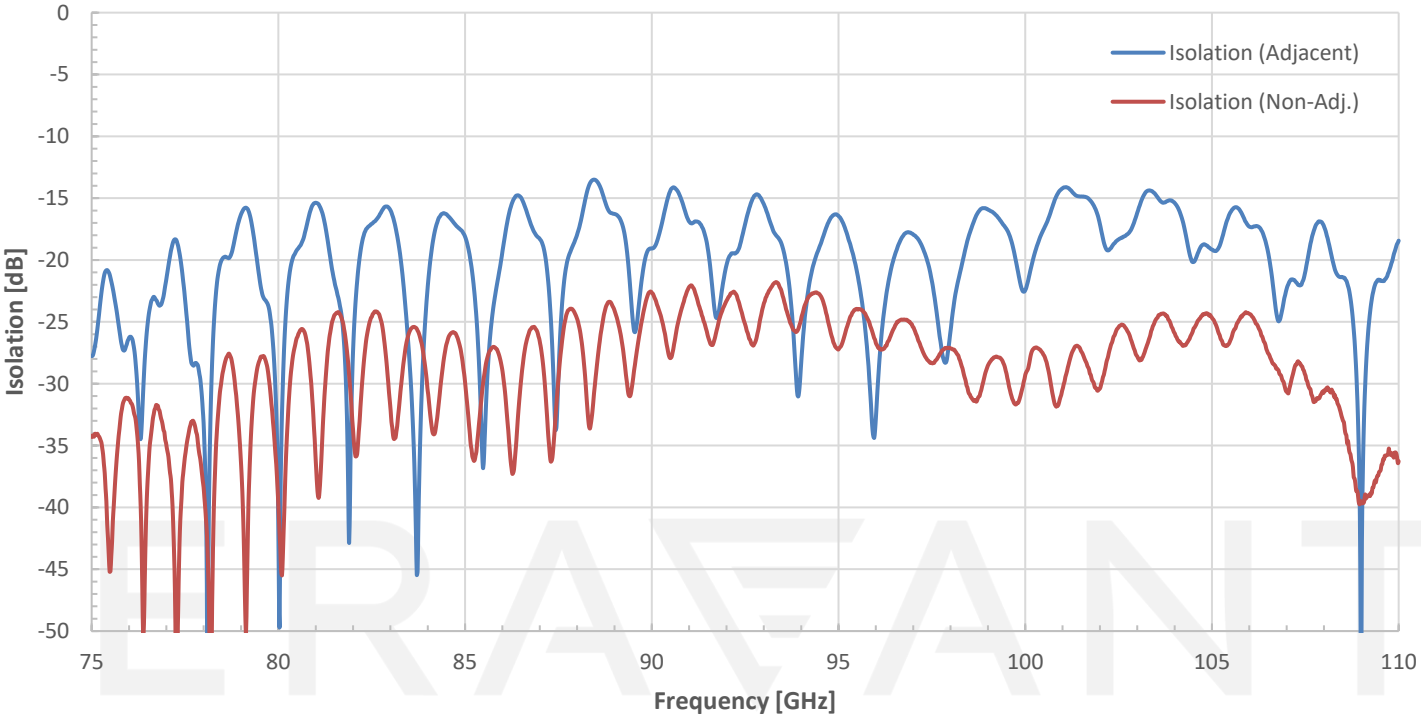
Typical Insertion Loss Vs Frequency



Typical Return Loss Vs Frequency

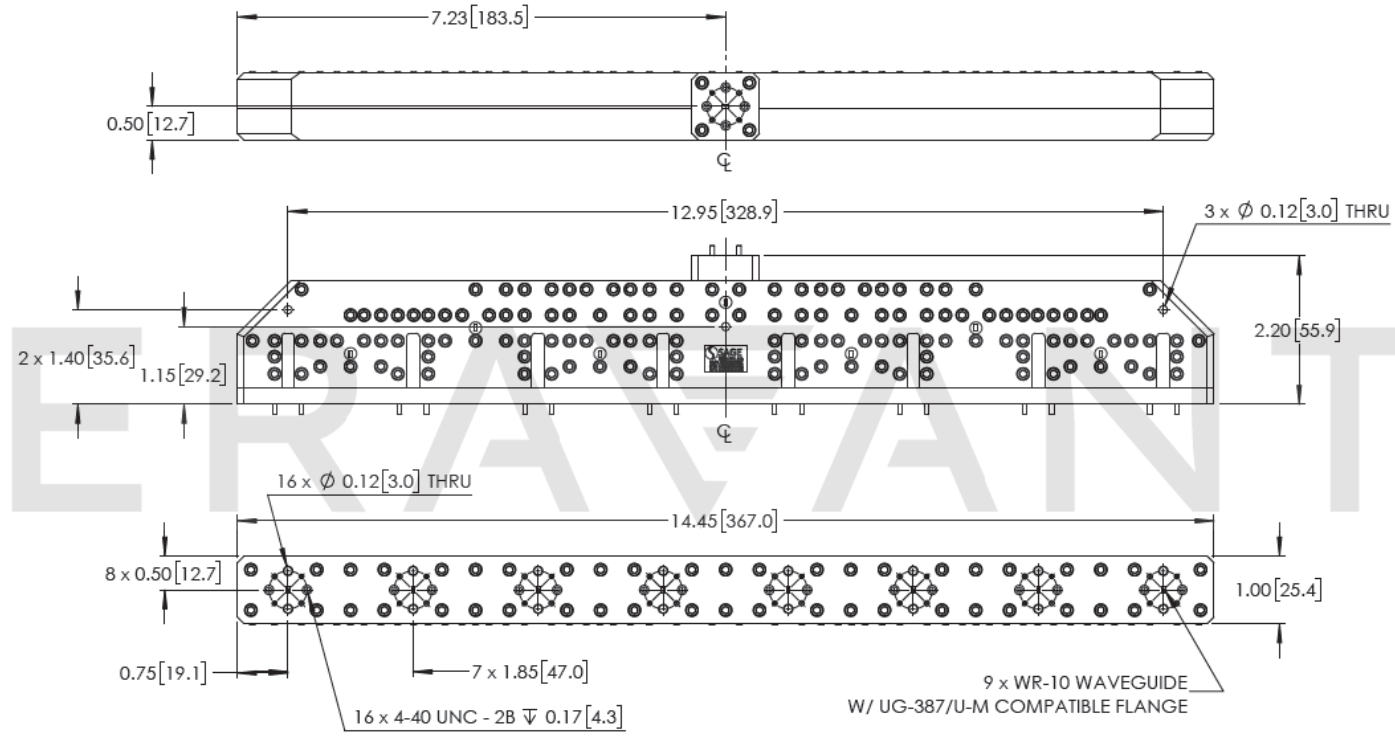


Typical Isolation Vs Frequency



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

ERAVANT
MAKING MILLIMETERWAVE ACCESSIBLE