

## WR-12 Waveguide Power Divider, 8-Way, 60 to 90 GHz

**SWP-60390308-12-E1** is a E band, 8-way in-line waveguide power divider that operates across the frequency range of 60 to 90 GHz. The power divider offers a typical insertion loss of 2.2 dB at each output port and a typical isolation of 20 dB at the adjacent ports and 40 dB at the non-adjacent ports. The ports are well balanced and in phase for either power dividing or power combining applications across the full band. This model offers an end launch design with WR-12 waveguides and UG-387/U anticocking flanges. Other configurations are available under different model numbers.



## **Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency	60 GHz		90 GHz
Insertion Loss*		2.2 dB	
Power Unbalance		±0.5 dB	
Isolation (Adjacent Ports)		20 dB	
Isolation (Non-Adj. Ports)		40 dB	
Return Loss		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

<sup>\*</sup>Performance may be reduced at band edges.

# **Mechanical Specifications:**

Item	Specification
RF Ports	WR-12 Waveguide with UG-387/U Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	35 Oz
Outline	WP-E8I-A

#### **ECCN**

EAR99

### **FEATURES**

- Full Waveguide Band Coverage
- High Isolation
- Low Insertion Loss
- Inline Package

### **APPLICATIONS**

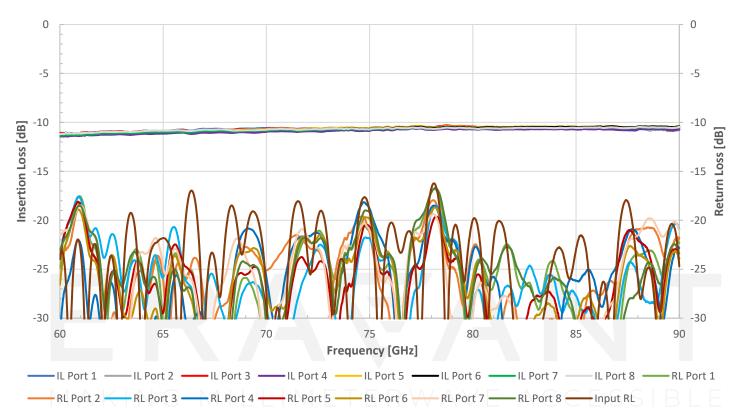
- Power Combing and Dividing
- Power Amplifiers
- Sub-assemblies

#### **SUPPLEMENTAL DETAILS**

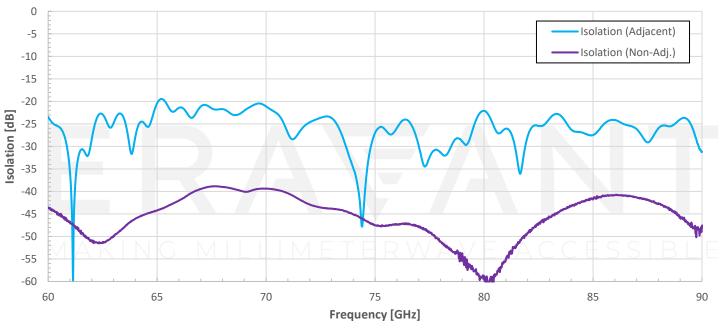




# **Typical Measured Insertion and Return Loss vs Frequency**



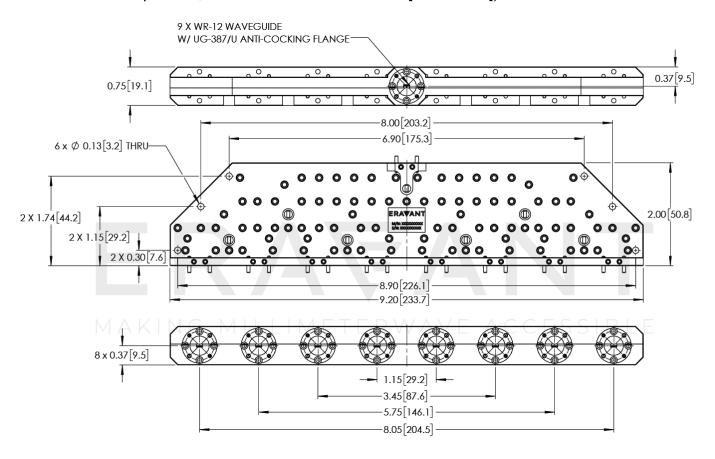
# **Typical Measured Isolation vs Frequency**





#### **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.

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