SWP-90314402-08-S1

WR-08 Waveguide Power Divider, 2-Way, 90 to 140 GHz

SWP-90314402-08-S1 is a full band WR-08, 2-way power divider that operates from 90 to 140 GHz. The power divider offers a typical insertion loss of 0.5 dB and typical isolation of 20 dB. All ports are well-balanced and in-phase for power dividing or combining applications across the band. The power divider is configured as a right-angle package with WR-08 waveguides and UG-387/U-M anti-cocking flanges at all ports. An inline, 2-way configuration is offered under model **SWP-90314402-08-S1-3**. Other power splitting options, such as 4-way, 8-way, and 16-way division, are available for both right-angle and inline configurations under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	90 GHz		140 GHz
Insertion Loss		0.5 dB	
Power Unbalance		±0.3 dB	
Isolation		20 dB	
Return Loss		20 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-08 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	3.8 Oz
Outline	WP-F2-A-2

ECCN

EAR99

FEATURES

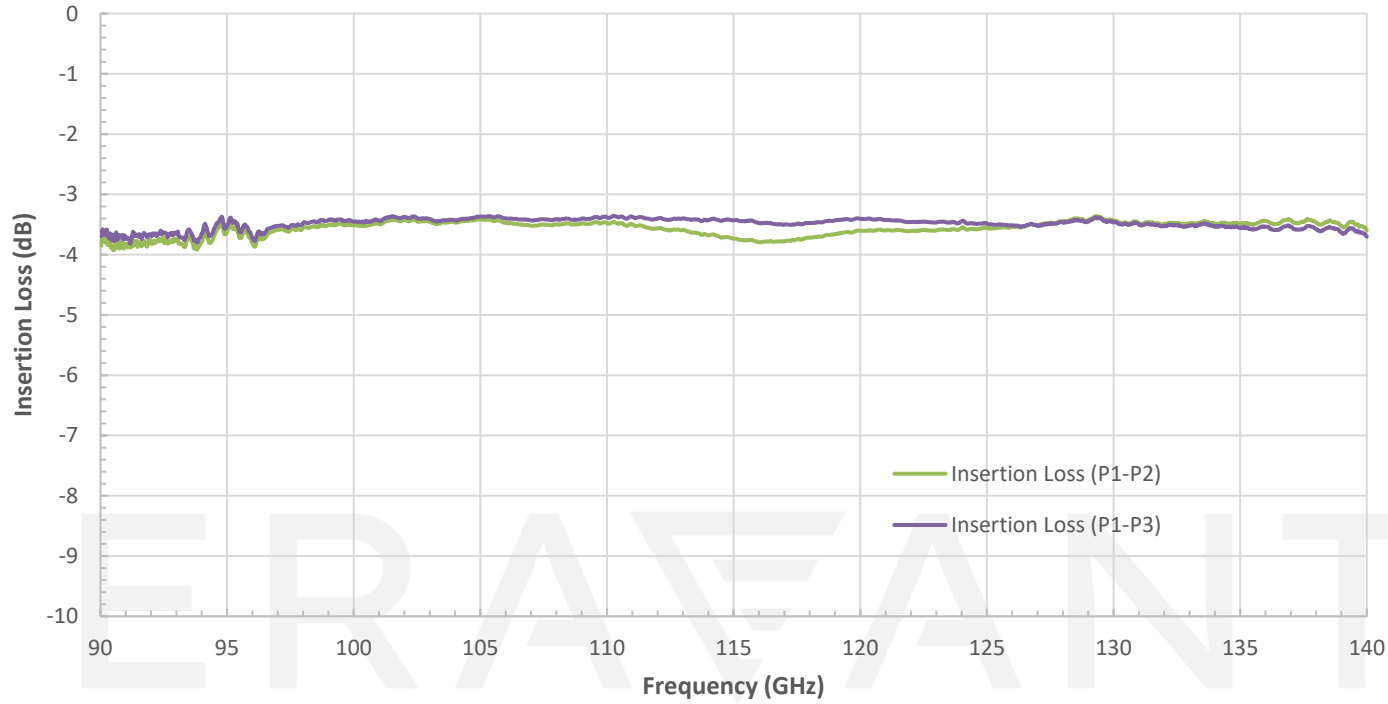
- Full Band Performance
- Low Insertion Loss
- High Isolation
- Compact Package

APPLICATIONS

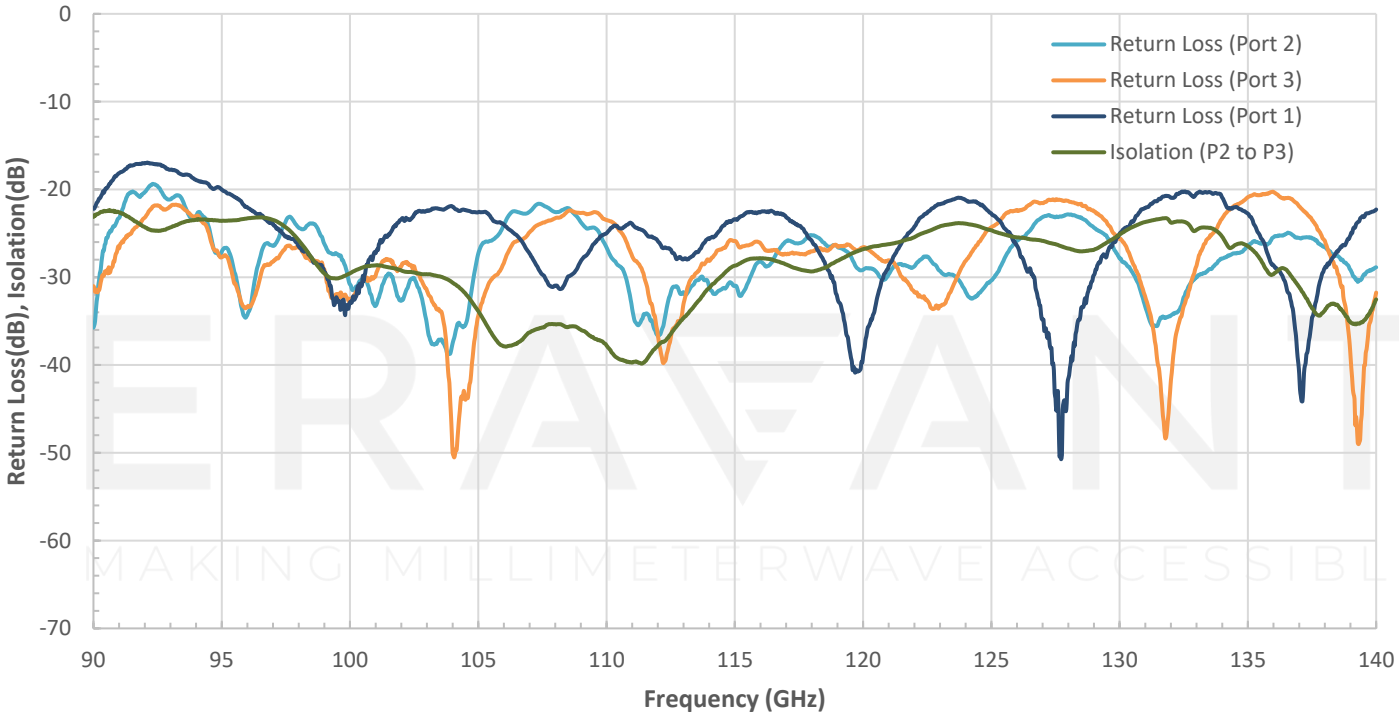
- Test Labs
- Test Instrumentation
- Sub-Assemblies

SUPPLEMENTAL DETAILS

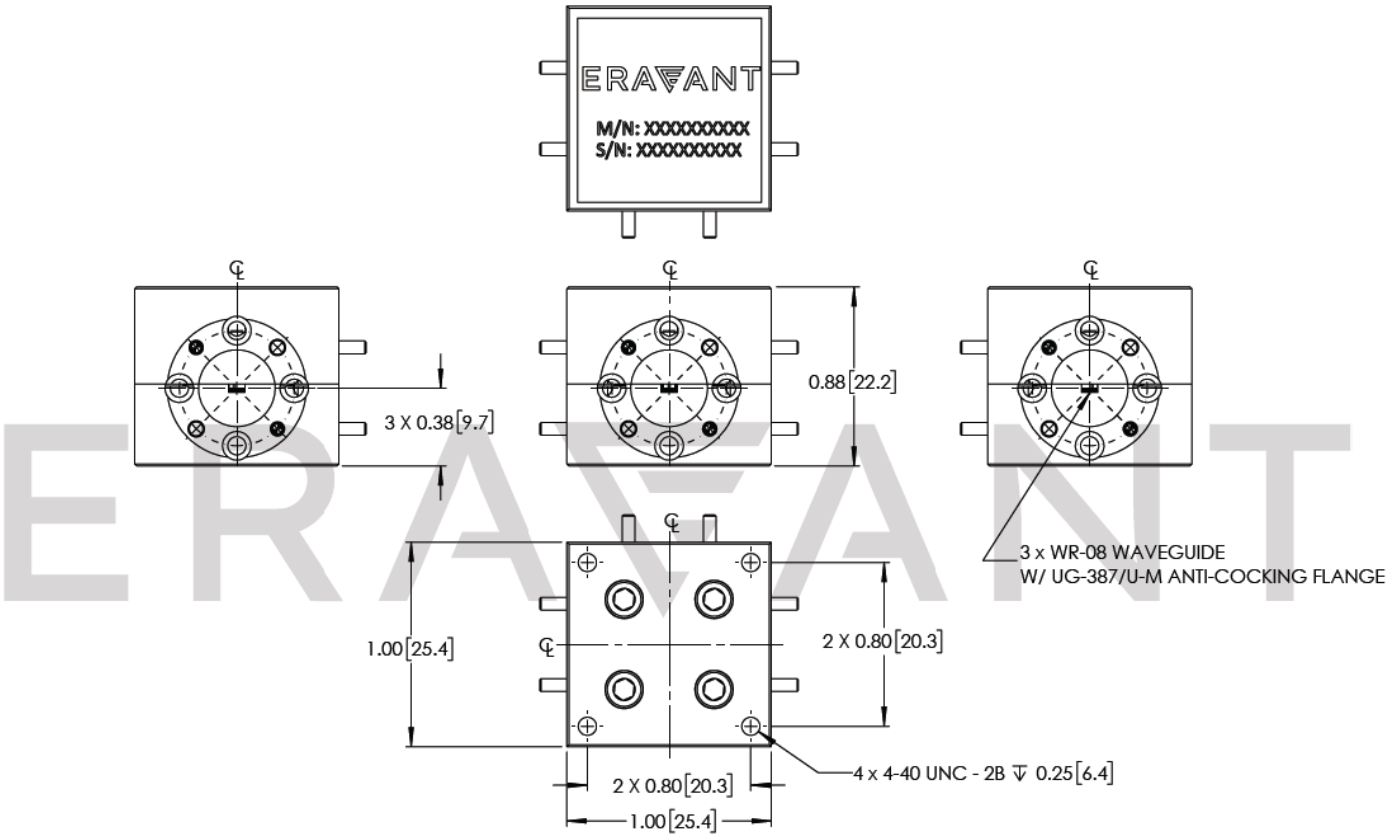
Typical Measured Insertion Loss Vs Frequency



Typical Measured Return Loss and 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:

- Exceeding absolute maximum ratings shown will damage the device.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.