

## SWP-90314402-08-S1-WP

## WR-08 Waveguide Power Divider, 2-Way, 115 to 140 GHz

**SWP-90314402-08-S1-WP** is a full band WR-08, 2-way power divider that operates from 115 to 140 GHz. The power divider offers a typical insertion loss of 1.5 dB and typical isolation of 14 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	115 GHz		140 GHz
Insertion Loss		1.5 dB	
Power Unbalance		±0.5 dB	
Isolation		14 dB	
Return Loss		14 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

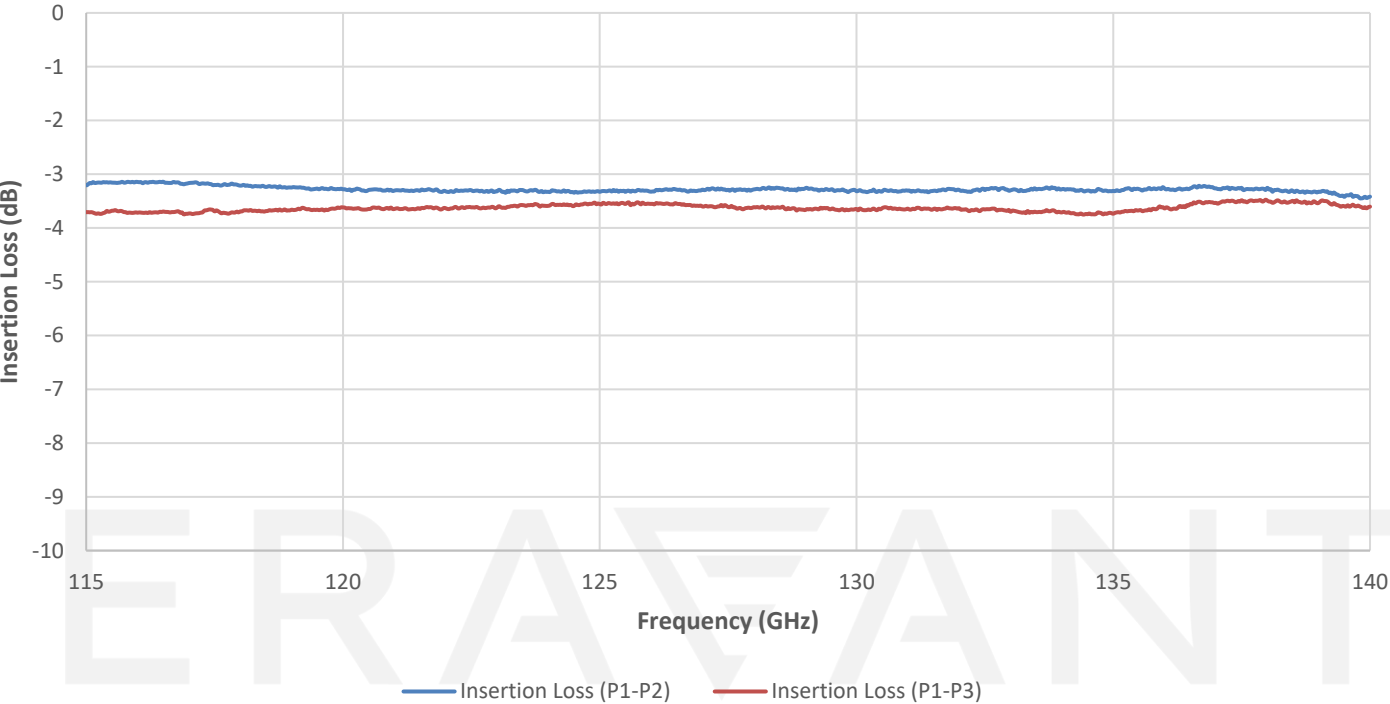
## APPLICATIONS

- Test Labs
- Test Instrumentation
- Sub-Assemblies

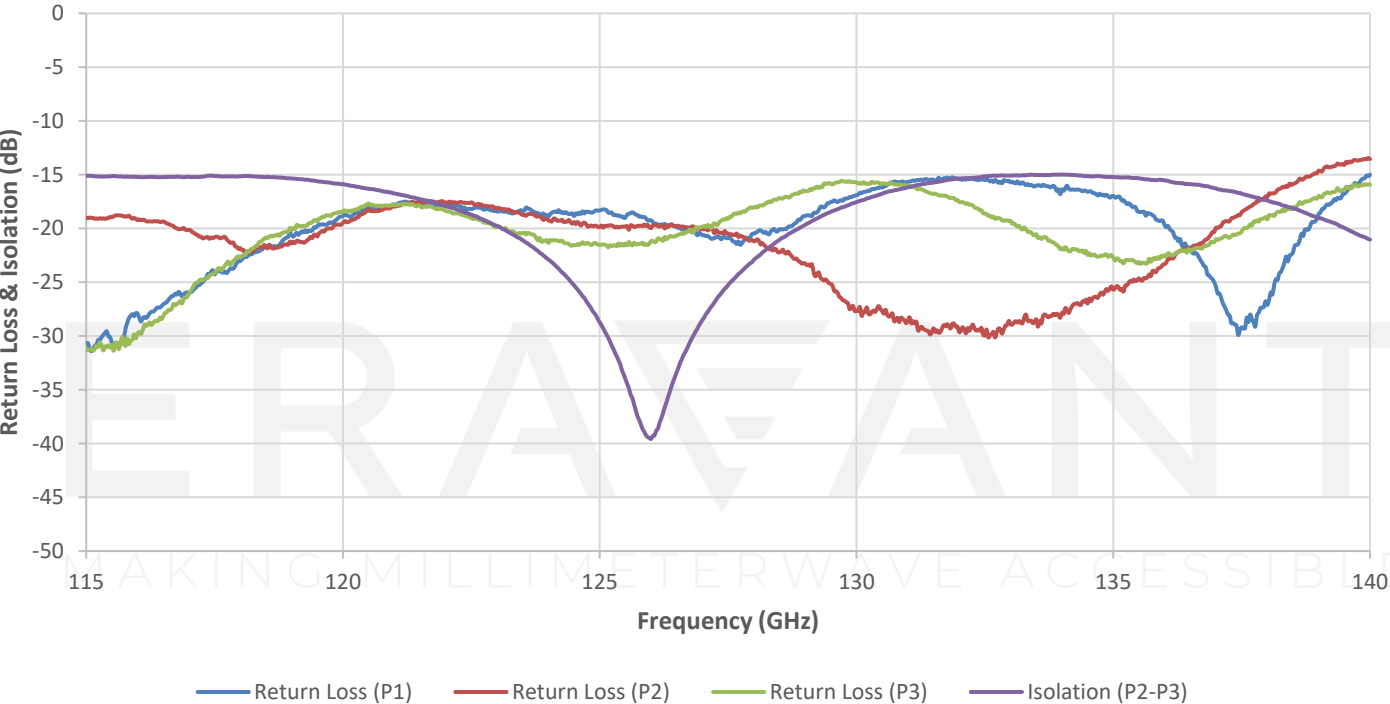
## SUPPLEMENTAL DETAILS



Measured Insertion Loss vs Frequency



Measured Return Loss and Isolation vs Frequency



ERA VANT

M/N: XXXXXXXXXX  
S/N: XXXXXXXXXX

3 X 0.38 [9.7]

0.88 [22.2]

3 X WR-08 WAVEGUIDE  
W/ UG-387/U-M ANTI-COCKING FLANGE

1.00 [25.4]

2 X 0.80 [20.3]

4 X 4-40 UNC - 2B  $\nabla$  0.25 [6.4]

2 X 0.80 [20.3]

1.00 [25.4]

- 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.