

SWP-14422402-05-S1

Rev 1.0

WR-05 Waveguide Power Divider, 2-Way, 140 to 220 GHz

Description:

Model SWP-14422402-05-S1 is a G-band, 2-way power divider that operates from 140 to 220 GHz. The power divider offers a typical insertion loss of 1.7 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-05 waveguides and UG-387/U-M anti-cocking flanges at all ports. An inline, 2-way configuration is offered under model **SWP-14422402-05-E1**. 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.



Features:

- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	140 GHz		220 GHz
Power Unbalance		±0.6 dB	
Insertion Loss		1.7 dB	
Isolation		20 dB	
Return Loss		15 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
RF Ports	WR-05 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	4.0 Oz
Outline	WP-G2-A

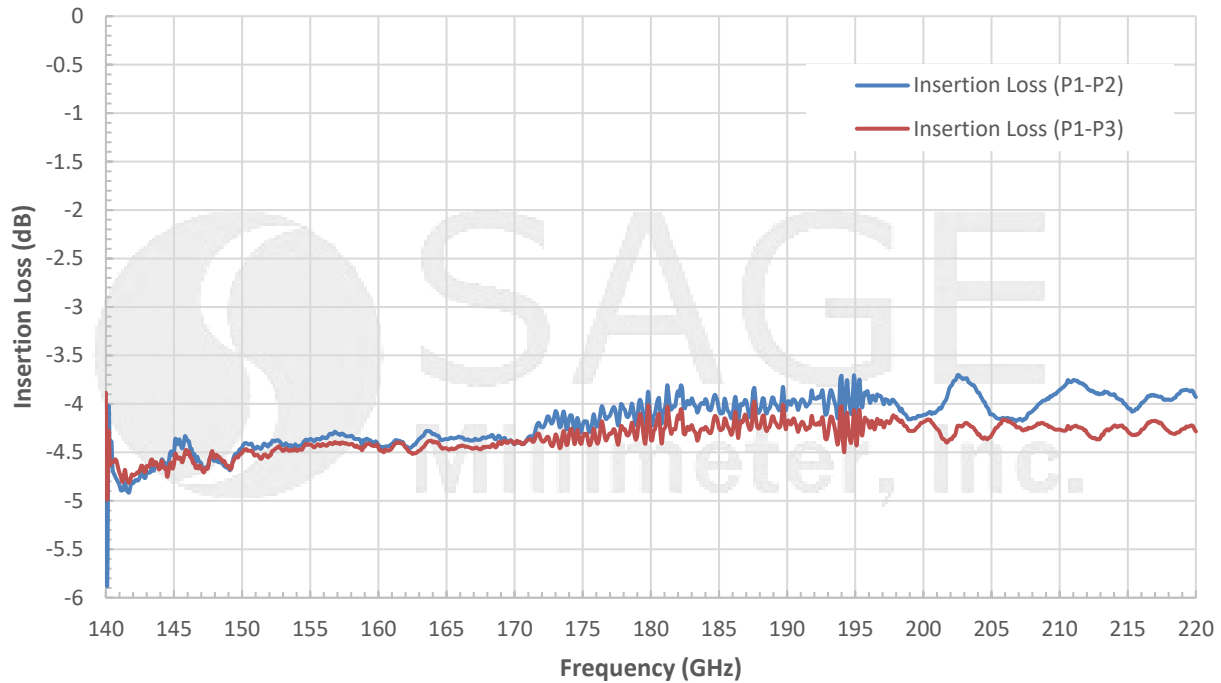


SWP-14422402-05-S1

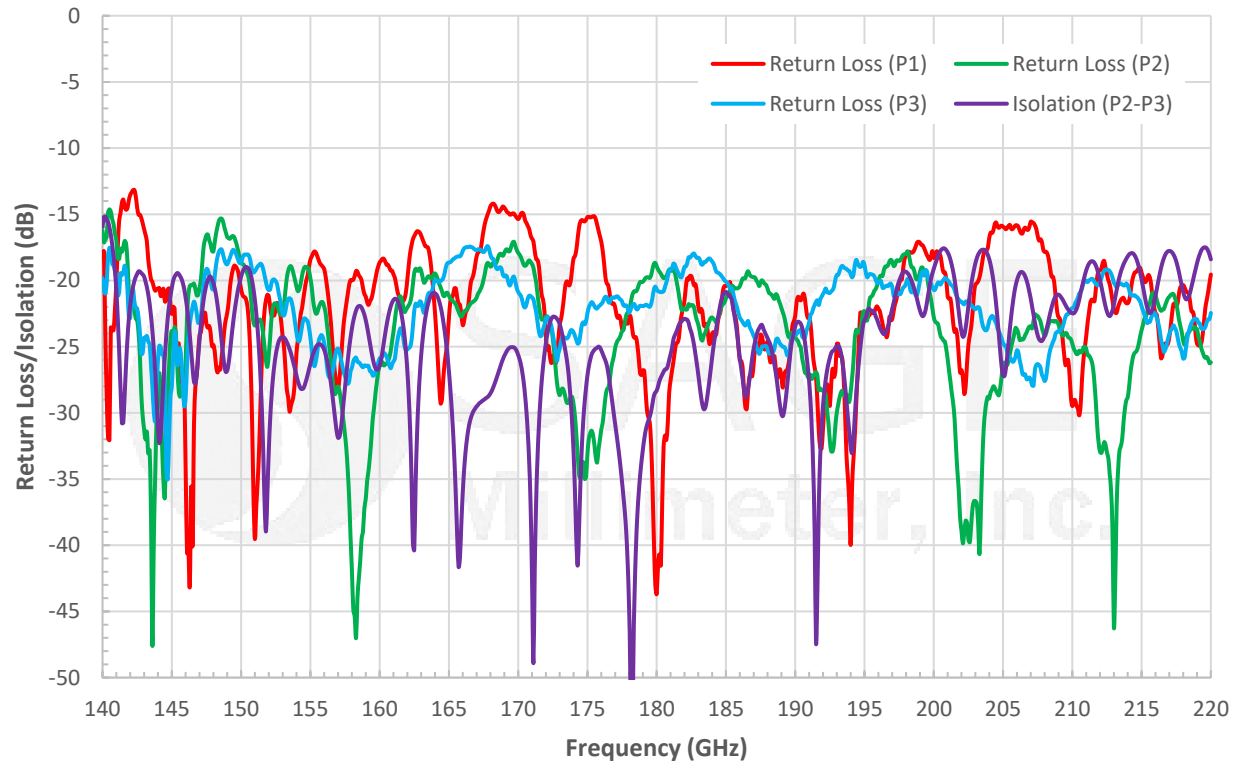
Rev 1.0

WR-05 Waveguide Power Divider, 2-Way, 140 to 220 GHz

Typical Measured Insertion Loss vs Frequency



Typical Measured Return Loss and Isolation vs Frequency

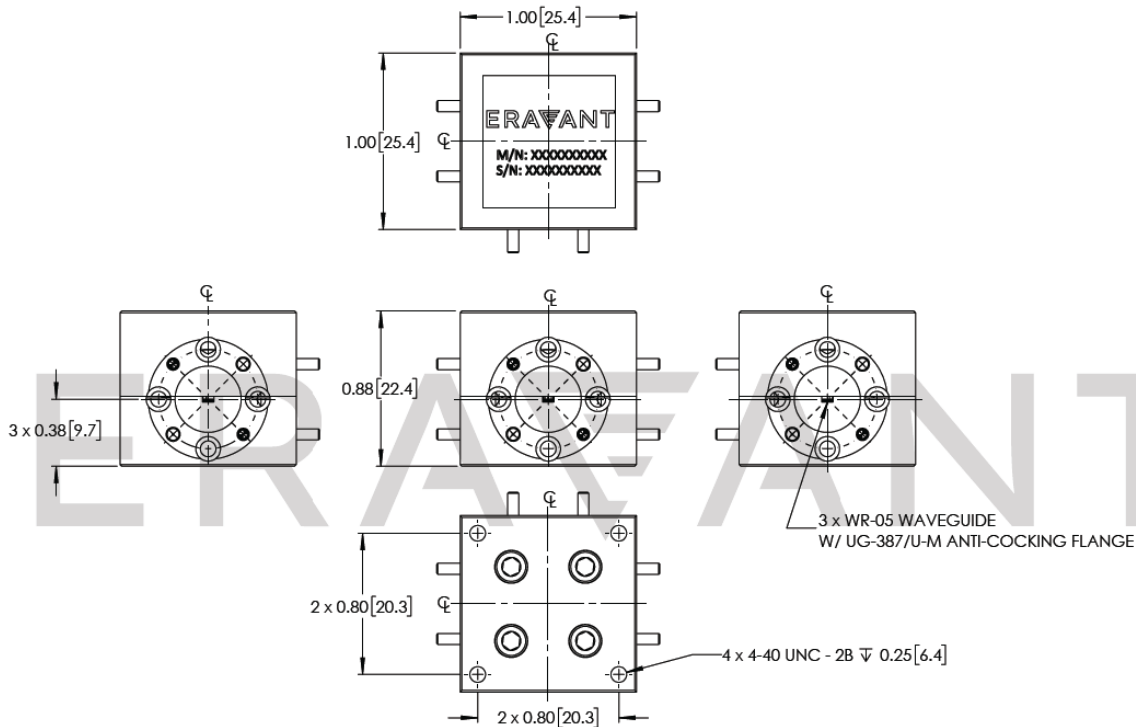


SWP-14422402-05-S1

Rev 1.0

WR-05 Waveguide Power Divider, 2-Way, 140 to 220 GHz

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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- 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 degrade performance and/or damage the device.

