

SWP-24344302-28-S1-WPC

Broadband WR-28 Waveguide Power Divider, 2-Way

SWP-24344302-28-S1-WPC is a broadband WR-28, 2-way power divider that operates from 24 to 44 GHz. The power divider offers a typical insertion loss of 0.4 dB and typical isolation of 18 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-28 waveguides and UG-599/U compatible flanges at all ports.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	24 GHz		44 GHz
Insertion Loss		0.4 dB	0.8 dB
Power Unbalance		±0.2 dB	±0.4 dB
Isolation, 24 to 26.5 GHz		12 dB	
Isolation, 26.5 to 44 GHz		18 dB	
Return Loss, 24 to 26.5 GHz	10 dB	12 dB	
Return Loss, 26.5 to 44 GHz	13 dB	18 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-28 Waveguide with UG-599/U Compatible Flange
Material	Brass
Finish	Gold Plated
Weight	10.5 oz
Outline	WP-A2-A-2

ECCN

EAR99

FEATURES

- Broadband Performance from 24 to 44 GHz
- Low Insertion Loss
- High Isolation
- Compact Package

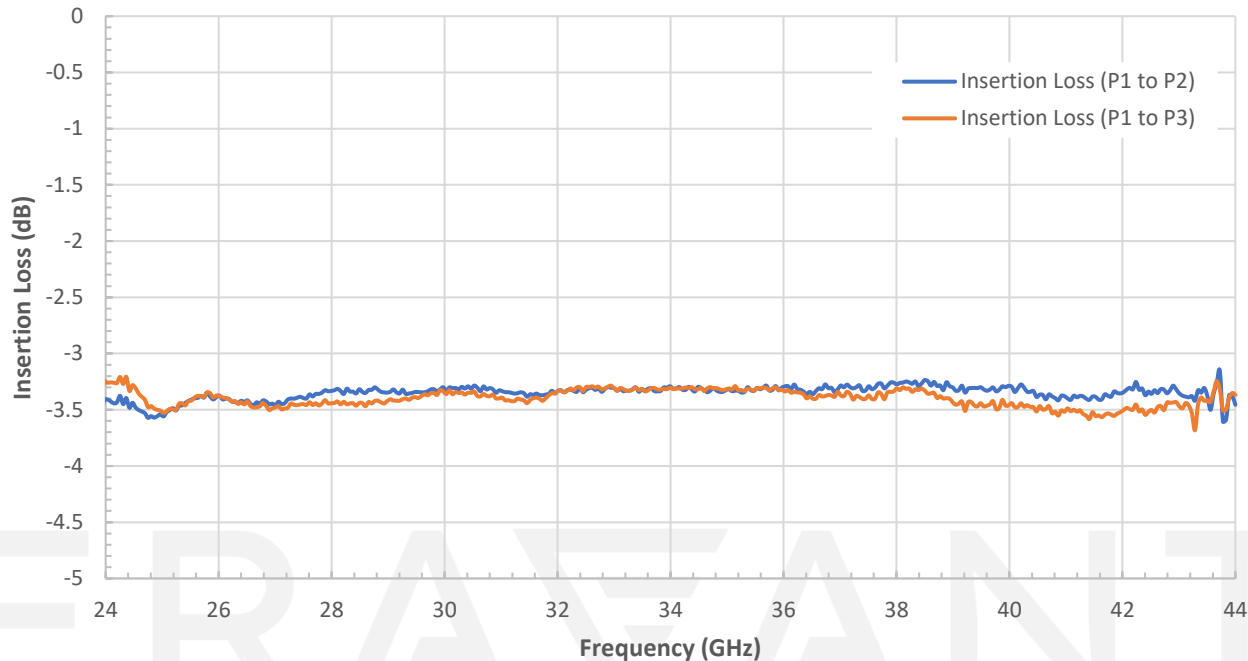
APPLICATIONS

- 5D mmW Systems
- Test Instrumentation
- Sub-assemblies
- Power Combining and Dividing

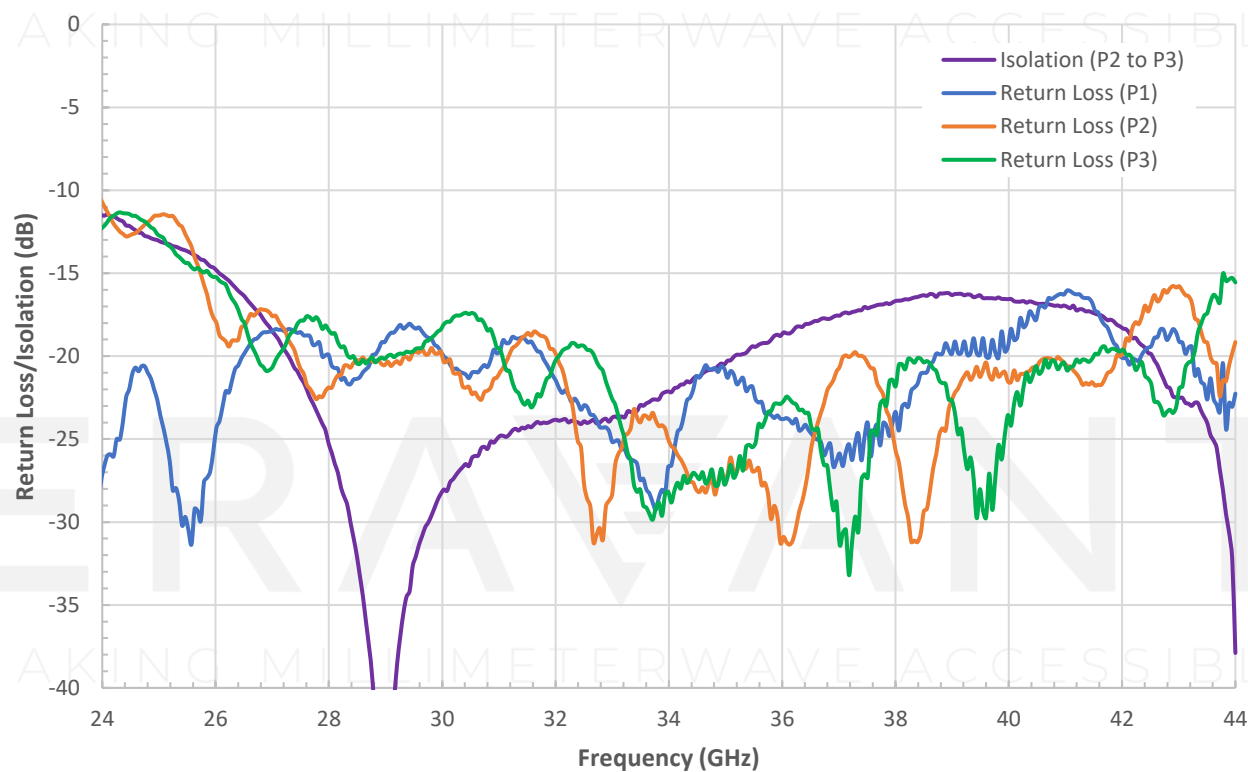
SUPPLEMENTAL DETAILS



Typical Measured Insertion Loss vs Frequency

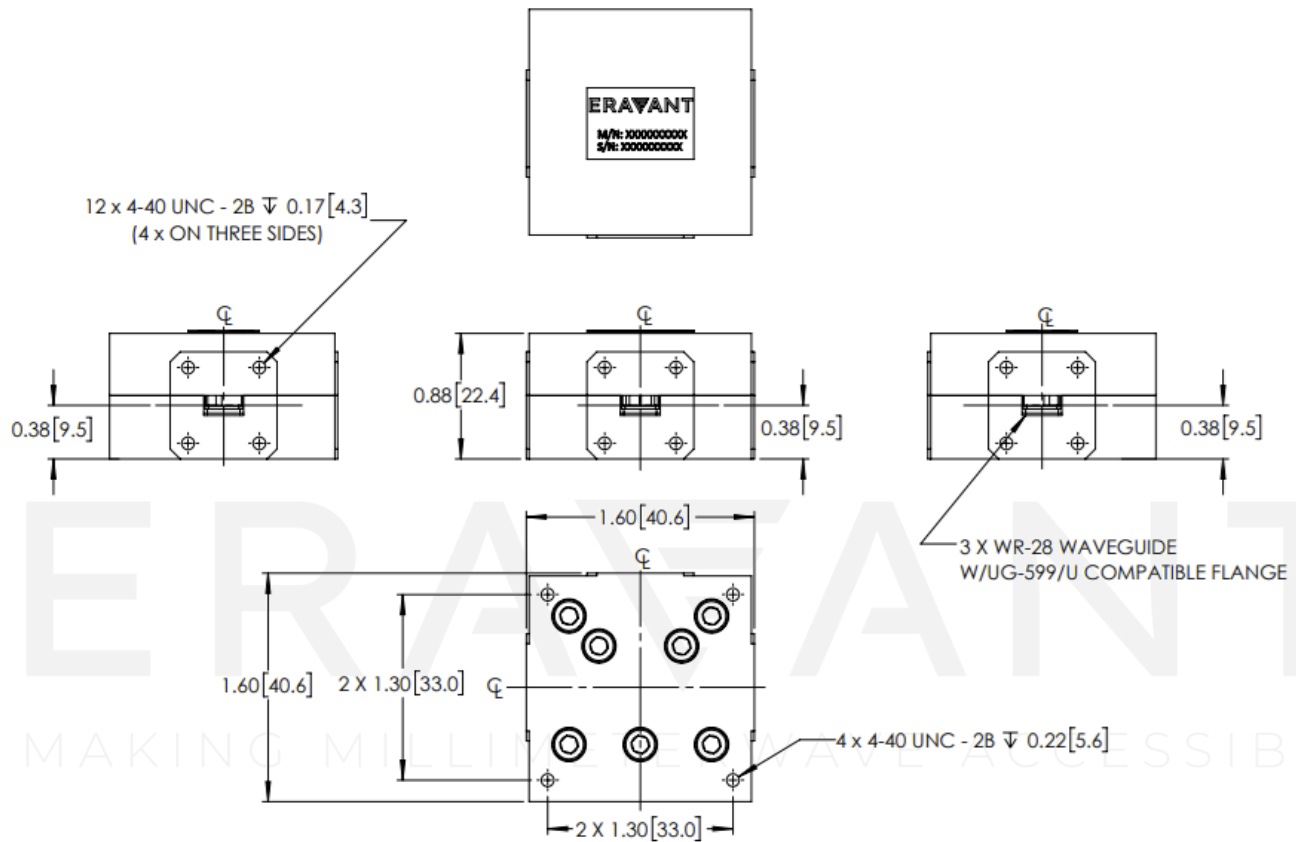


Typical Measured Return Loss and Isolation vs Frequency



SWP-24344302-28-S1-WPC

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 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:

- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.