ERAVANT

WR-12 Waveguide Power Divider, 4-Way, 62 to 86 GHz

SWP-62386304-12-E1 is an E band, 4-way power divider with a typical insertion loss of 1.0 dB across the frequency range of 62 to 86 GHz. The divider offers 20 dB isolation and well-balanced ports, which can be used for in-phase power dividing or combining. This power divider comes as an in-line configuration with WR-12 waveguides and UG-387/U Anti-Cocking flanges at the input and all outputs.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	62 GHz		86 GHz
Insertion Loss*		1.0 dB	1.6 dB
Power Unbalance		±0.5 dB	
Isolation (Adjacent Ports)		15 dB	
Isolation (Non-Adj. Ports)		25 dB	
Return Loss		20 dB	
Specification Temperature		+25 ˚C	
Operating Temperature	-40 ˚C		+85 ˚C

*Performance may be reduced at band edges.

Mechanical Specifications:

Item	Specification
RF Ports	WR-12 Waveguide with UG-387/U Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	3.8 Oz
Outline	WP-E4I-A

ECCN

EAR99

FEATURES

- High Isolation
- Low Insertion Loss
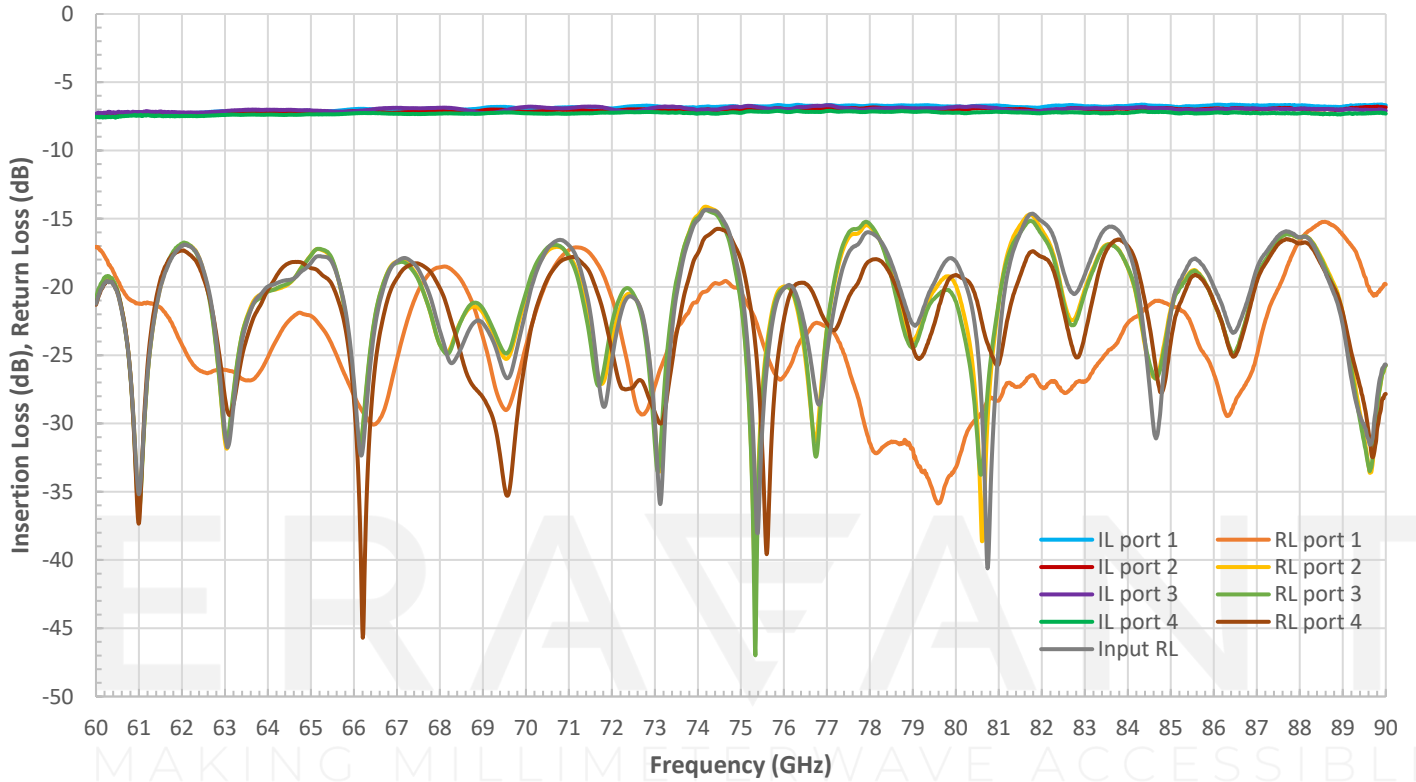- Inline Package

APPLICATIONS

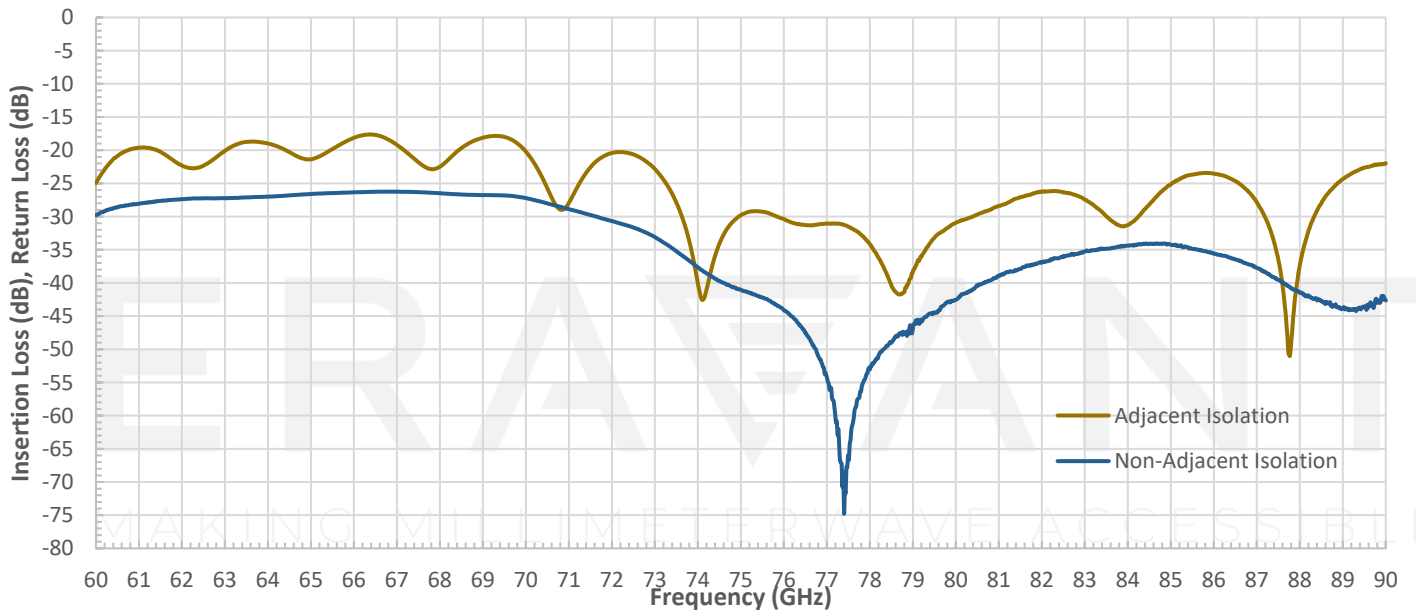- Power Combing and Dividing
- Power Amplifiers
- Sub-assemblies

SUPPLEMENTAL DETAILS

RoHS
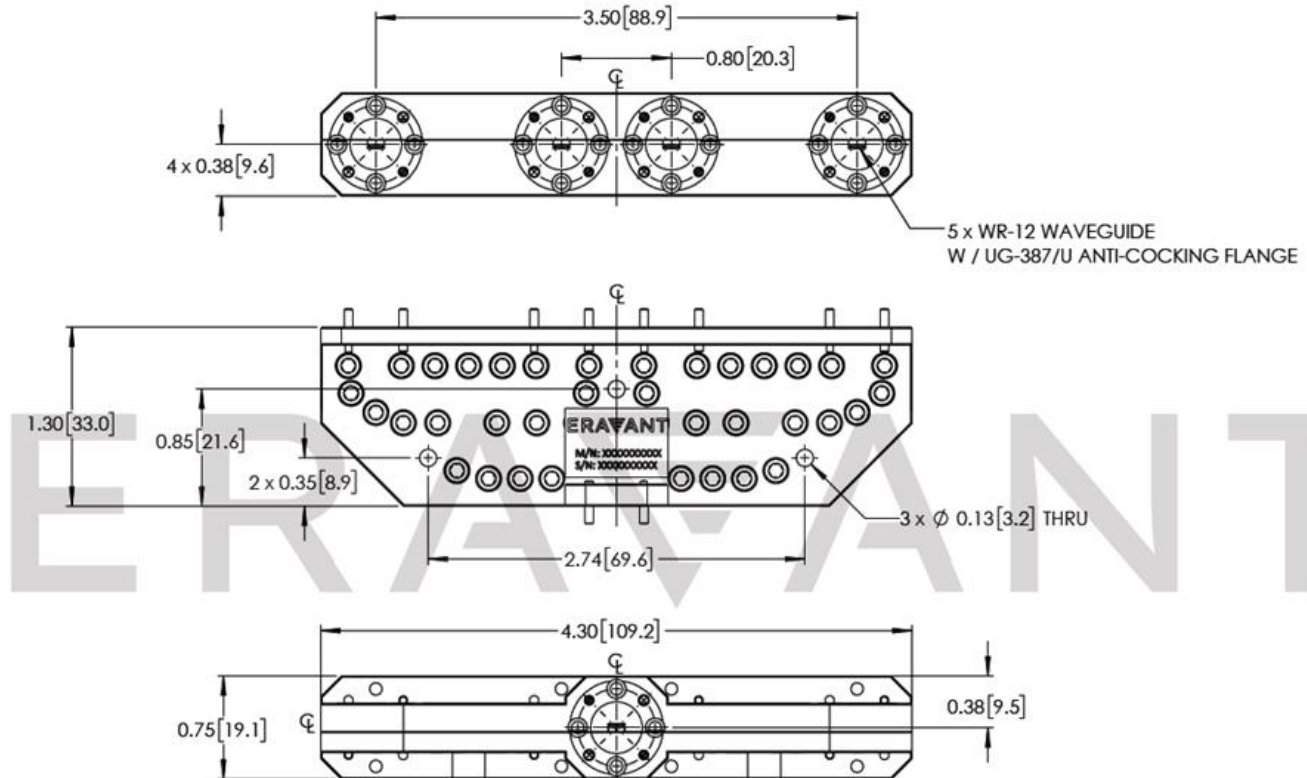
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Typical Insertion Loss and Return Loss Vs Frequency

Typical Isolation Vs Frequency

Rev 1.2

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.

Rev 1.2