

SCS-0536533816-VFVF-27

2-Way Coaxial Power Splitter, 5 to 65 GHz

SCS-0536533816-VFVF-27 is a coaxial 2-way power splitter with a typical insertion loss of 3.8 dB at each output port and a typical isolation of 16 dB across the frequency range of 5 to 65 GHz. The power splitter has a power handling of 5W (CW) and a typical amplitude unbalance of ± 0.6 dB. The return loss for all ports is 11 dB typical. The RF connectors of the power splitter are female 1.85 mm (V) female connectors.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	5 GHz		65 GHz
Insertion Loss*		3.8 dB	
Amplitude Unbalance		± 0.6 dB	
Phase Unbalance		$\pm 6.0^\circ$	
Port Isolation		16 dB	
Return Loss		11 dB	
Forward Power Handling			5 W (CW)
Impedance		50 Ω	
Specification Temperature		+25 $^\circ\text{C}$	
Operating Temperature	-40 $^\circ\text{C}$		+85 $^\circ\text{C}$

*Note: The insertion loss is circuit loss, which does not include the power dividing loss.

Mechanical Specifications:

Item	Specification
RF Connectors	1.85 mm (V) Female
Case Material	Aluminum
Finish	Black Paint
Size	1.06" (L) x 0.75" (W) x 0.51" (H)
Outline	CS-V2-Z1

ECCN

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FEATURES

- Low Insertion Loss
- High Isolation
- Compact Package

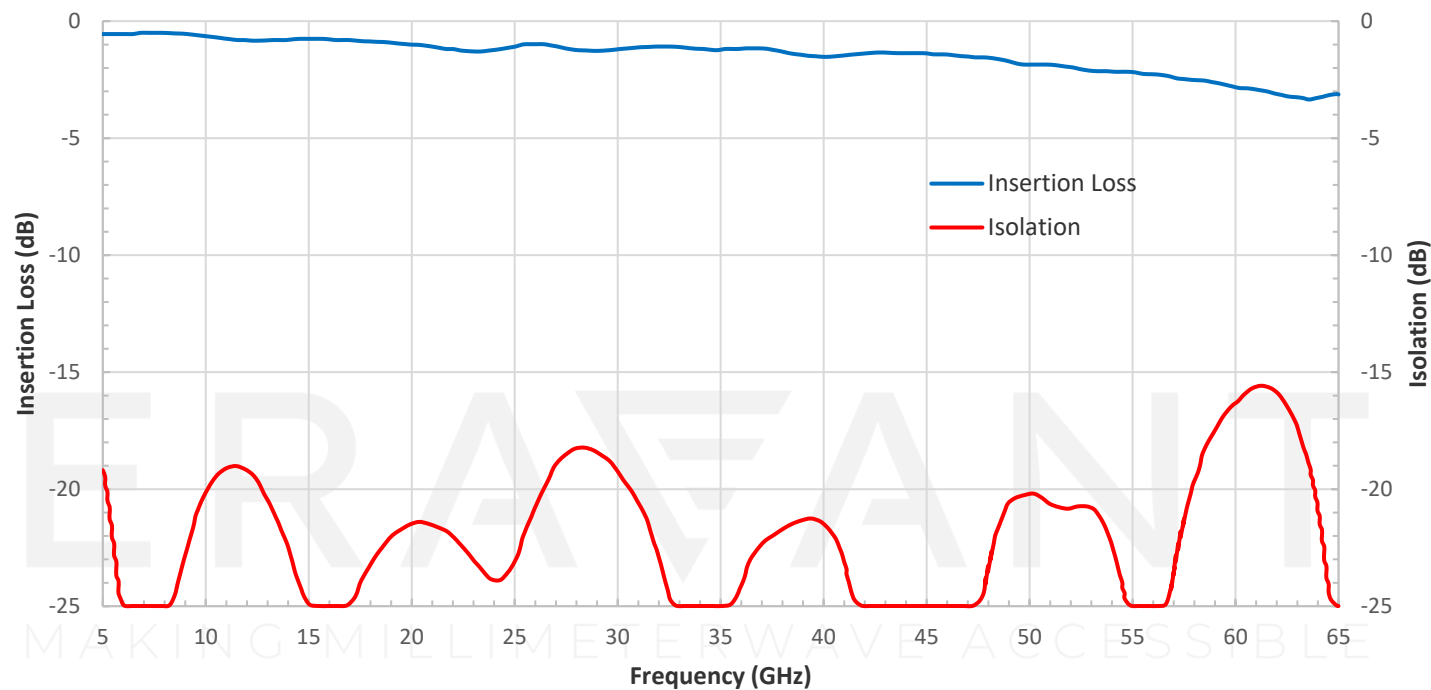
APPLICATIONS

- Test Labs
- Sub-assemblies
- Instrumentations

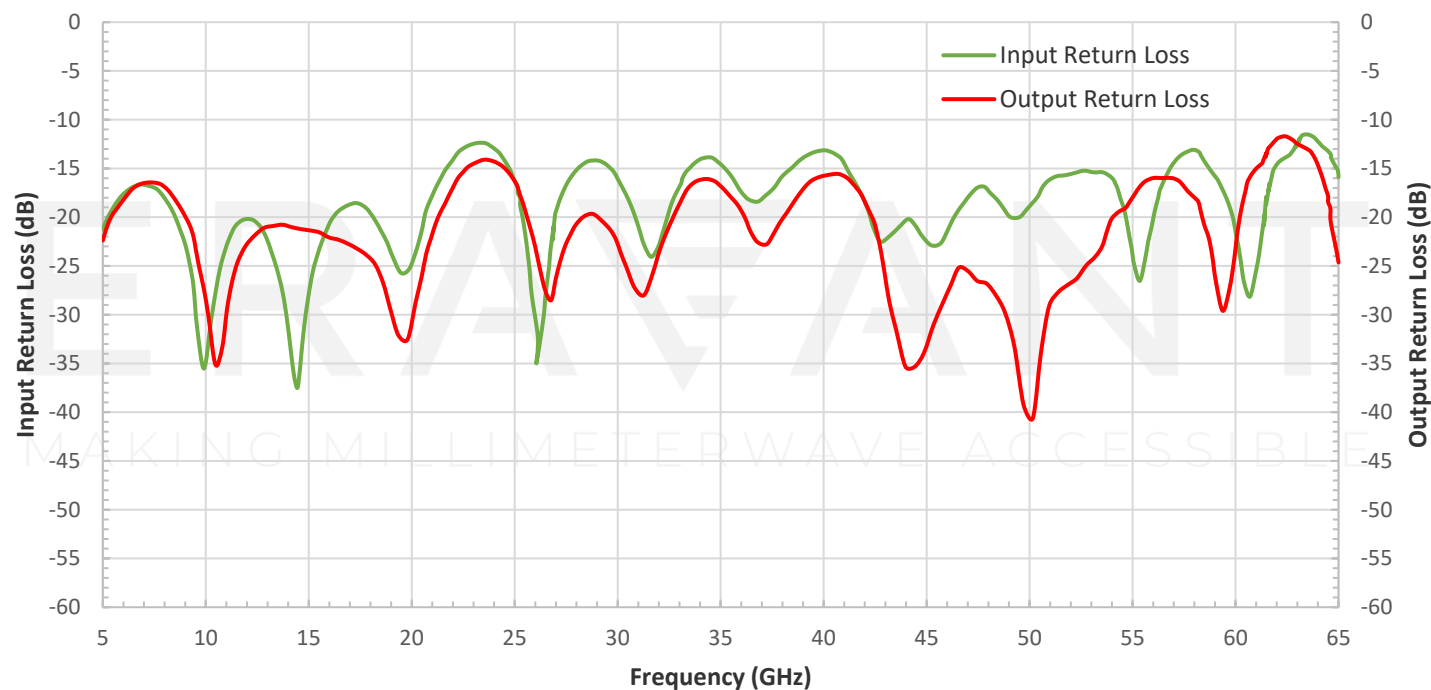
SUPPLEMENTAL DETAILS



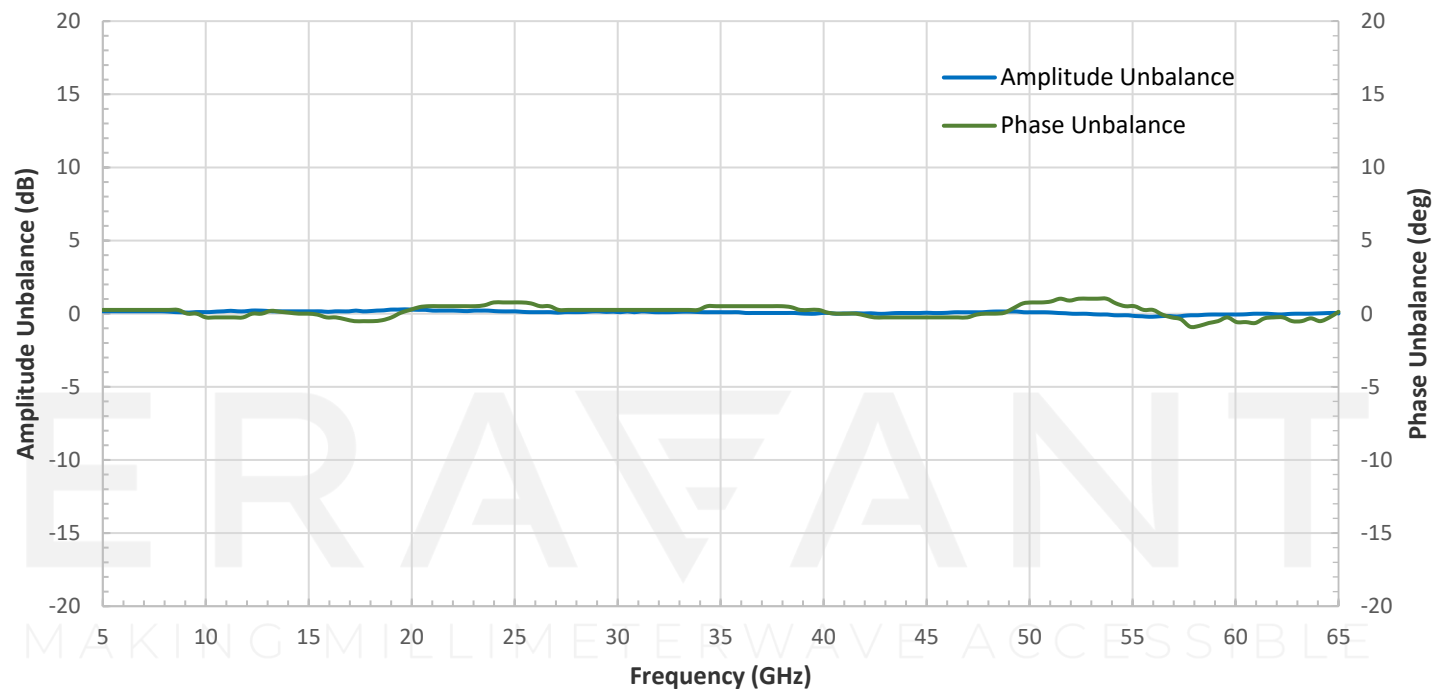
Typical Insertion Loss and Isolation vs. Frequency



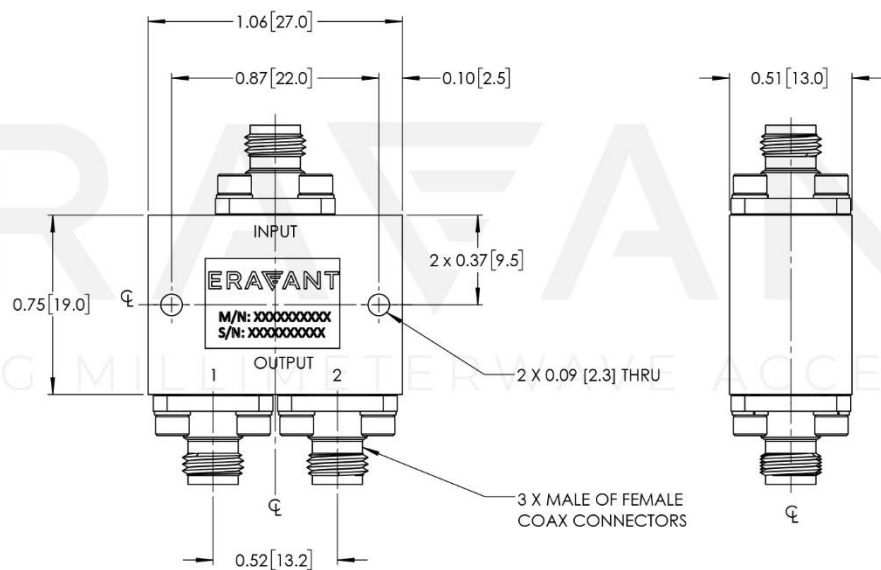
Typical Return Loss vs. Frequency



Amplitude and Phase Unbalance vs. Frequency



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 case temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- Proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.

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