3dB 1W Fixed Attenuator
DC - 67 GHz

Product Description

RFS1G67V03 is a fixed attenuator with a frequency range of DC to 67GHz.

The max input Power of the fixed attenuator is 1W. The typical VSWR of 1.5:1.

The working temperature of this product is between - 40℃ and + 85℃.

Features

- Frequency up to 67GHz
- Broad bandwidth
- Low VSWR
- High Attenuation Precision

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications (T_A=+25ºC)

Parameter	Min	Typ	Max	Units
Frequency Range	DC		67	GHz
Attenuation precision		±1.0		dB
Attenuation		3		dB
VSWR		1.3	1.5	: 1
Input Power			1	W
Weight		0.014 Max.		lbs.
Input / Output Connectors		1.85mm-Female(Input)-1.85mm-Male(Output)		

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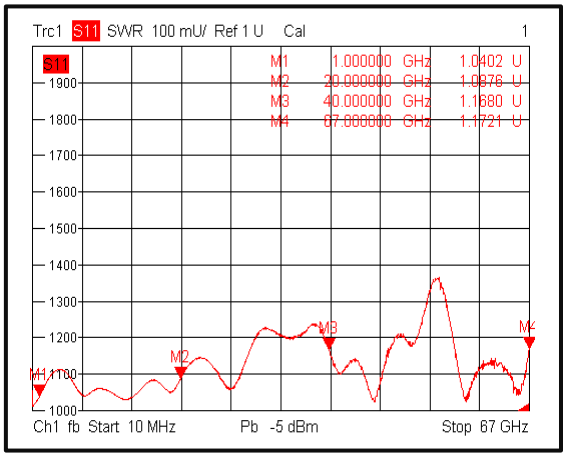
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40ºC to +85ºC (Case Temperature)
Storage Temperature	-50ºC to +105ºC
Thermal Shock	-40ºC → +85ºC (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85ºC for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

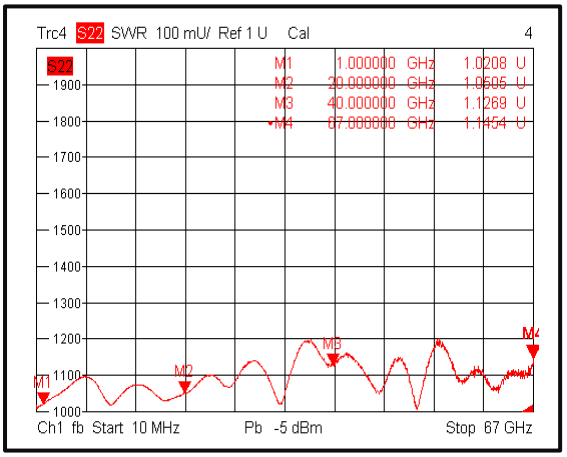
**For vibration testing details please see additional information section.

Typical Performance Plots

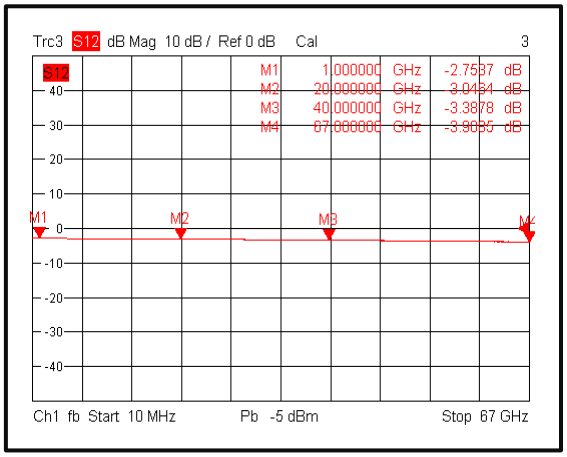
Input VSWR



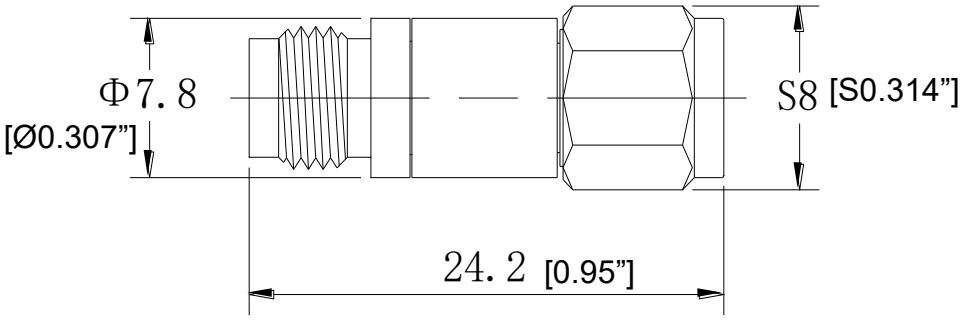
Output VSWR

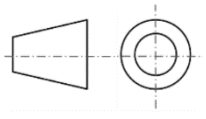


Attenuation vs. Frequency



Outline Drawing





Notes:
1. Package Material: Aluminum
2. All dimensions are in millimeters [inches].

Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RFS1G67V03	Input connector 1.85mm-Female and Output connector 1.85mm-Male	DC-67GHz Fixed Attenuator

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