

## 3dB 1W Fixed Attenuator DC - 67 GHz



### Features

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

### 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°C and + 85°C.

### 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<sub>A</sub>=+25°C)

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)			

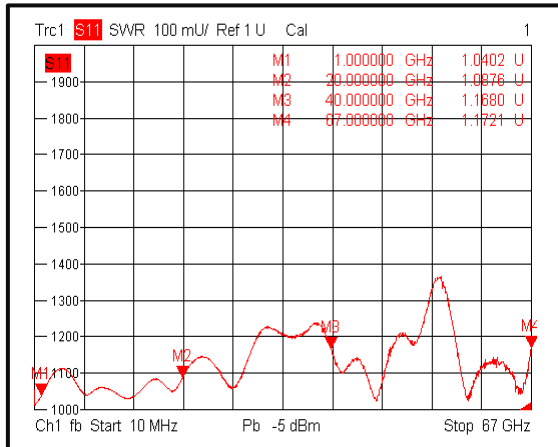
**Environmental Specifications and Test Standards**

Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-50°C to +105°C
Thermal Shock	-40°C → +85°C (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 +85°C 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)

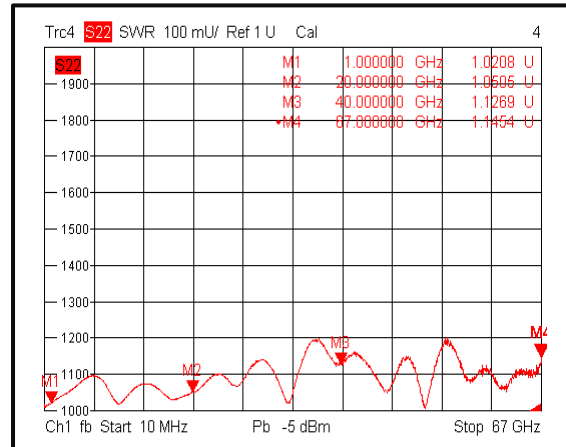
\*\*For vibration testing details please see additional information section.

Typical Performance Plots

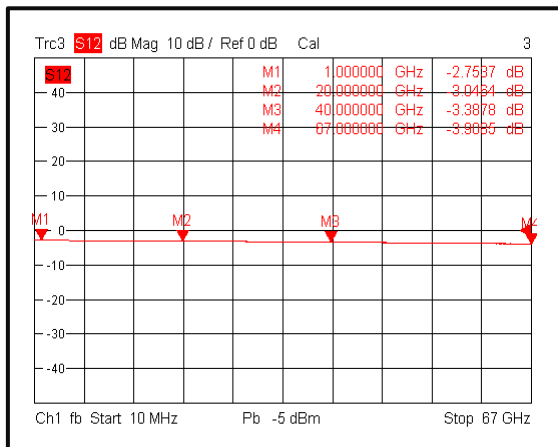
Input VSWR



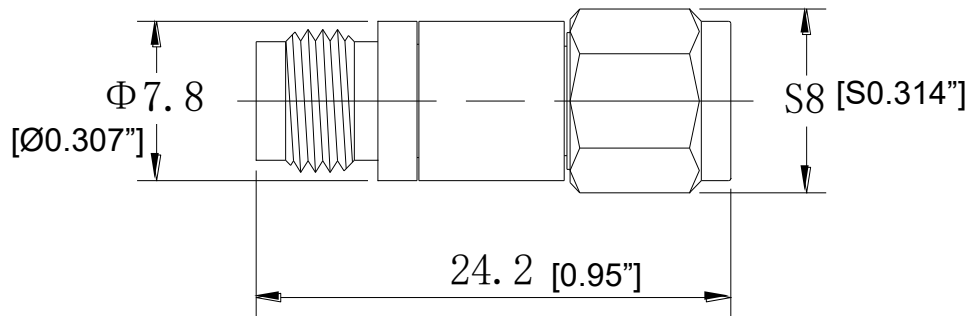
Output VSWR



Attenuation vs. Frequency

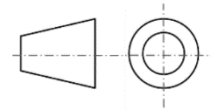


**Outline Drawing**



Notes:

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



Additional Information

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

**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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