

150W High Power Fixed Attenuator



Product Description

RFS150GXB is a high power fixed attenuator.

The max average power of the attenuator is 150W.

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

Features

- Wide frequency Band
- Low VSWR
- Multiple Attenuation Values Available

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=+25°C)

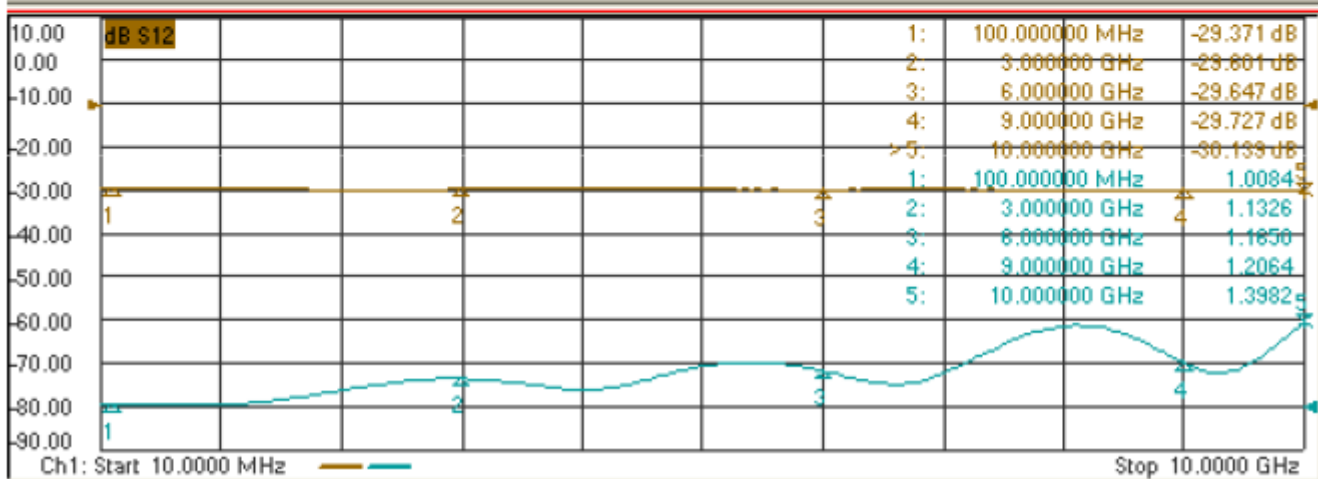
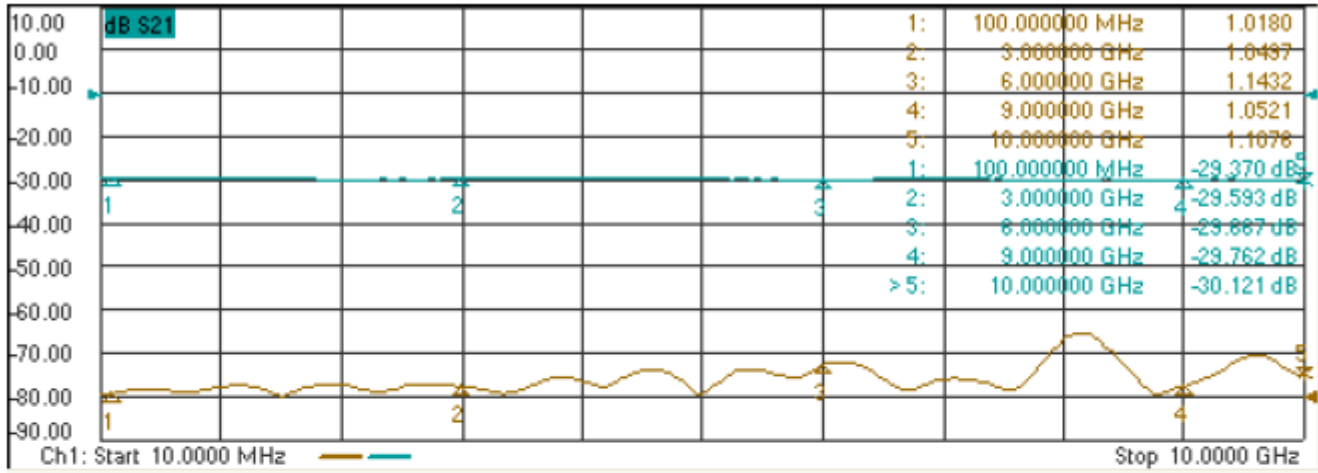
Parameter	Frequency (GHz)	VSWR (max.)	Attenuation Accuracy (dB)						Power (CW)	Peak Power(KW) (0.5% Duty Cycle, 5us Pulse Width)
			3	6	10	20	30	40		
RFS150G6B	DC-6	1.30	±0.8	±0.8	±0.75	±0.75	±0.75	±0.75	150	5
RFS150G8B	DC-8	1.35	/	/	/	±0.75	±0.75	±0.75	150	5
RFS150G10B	DC-10	1.40	/	/	/	±0.8	±0.8	±0.8	150	5
Impedance	50Ω									
Weight	3.31 Max.lbs.									
Connectors	SMA, N, 7/16 (Male or Female)									

Environmental Specifications and Test Standards

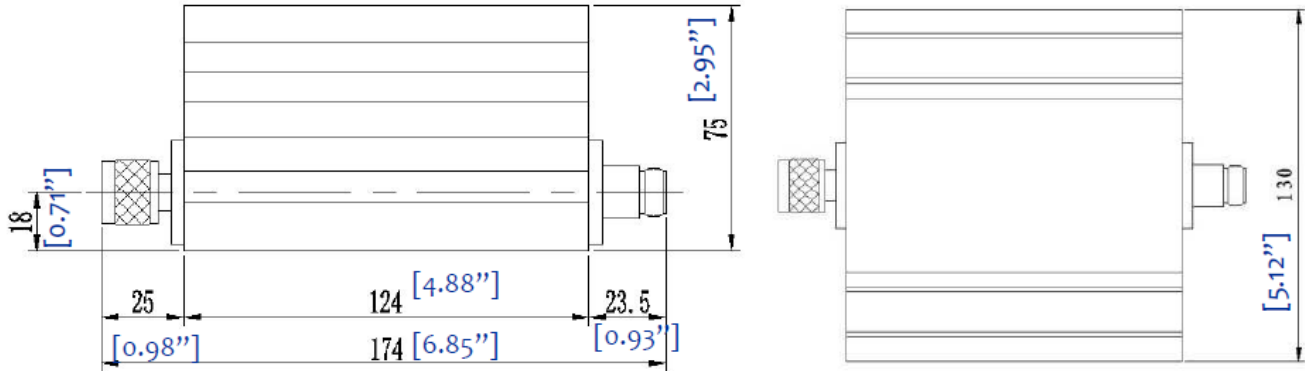
Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-55°C to +125°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +125°C for 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

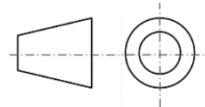


Outline Drawing



Notes:

1. Finish: Body painted with gray/black epoxy enamel
2. All dimensions are in millimeters [inches].
3. Tolerances ± 0.25 [0.01] unless otherwise specified.



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
RFS150GXB	SMA, N,7/16 (Male or Female)	150W High Power Fixed Attenuator

RS150G	X	B	X	X	X	X
	Frequency		Attenuator Value	Connector Type	Connector Gender Input	Connector Gender Output
	6 = 6 GHz 8 = 8 GHz 10 = 10 GHz		10 = 10 dB 20 = 20 dB 30 = 30 dB 40 = 40 dB 50 = 50 dB	S = SMA D = 7/16 N = N Type	F = Female M = Male	F = Female M = Male

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