

100W Coaxial Fixed Attenuator DC-18GHz



A



AB



C

Features

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

Product Description

RFS100G18B is a coaxial fixed attenuator with a frequency range of DC to 18GHz.

The max average power of the attenuator is 100W. The max VSWR of 1.45:1.

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_A=+25°C)

Parameter		Min	Typ	Max	Units
Frequency Range		DC		18	GHz
Attenuation Value & Accuracy	3		-1.5/+2.5		
	6		-1.0/+3.0		
	10		-2.0/+2.5		
	20		±1.8		dB
	30		-1.2/+2.0		
	40		-1.2/+2.0		
	50		-1.2/+2.0		
VSWR				1.45	: 1
*Average Power				100	W
Peak Power (5μs pulse width with 10% duty cycle)				1	KW
Impedance			50		Ω
Weight	A		1.1 Max.		lbs.
	AB		3.14 Max.		lbs.
	C		3.97 Max.		lbs.
Connectors		N,SMA,TNC			

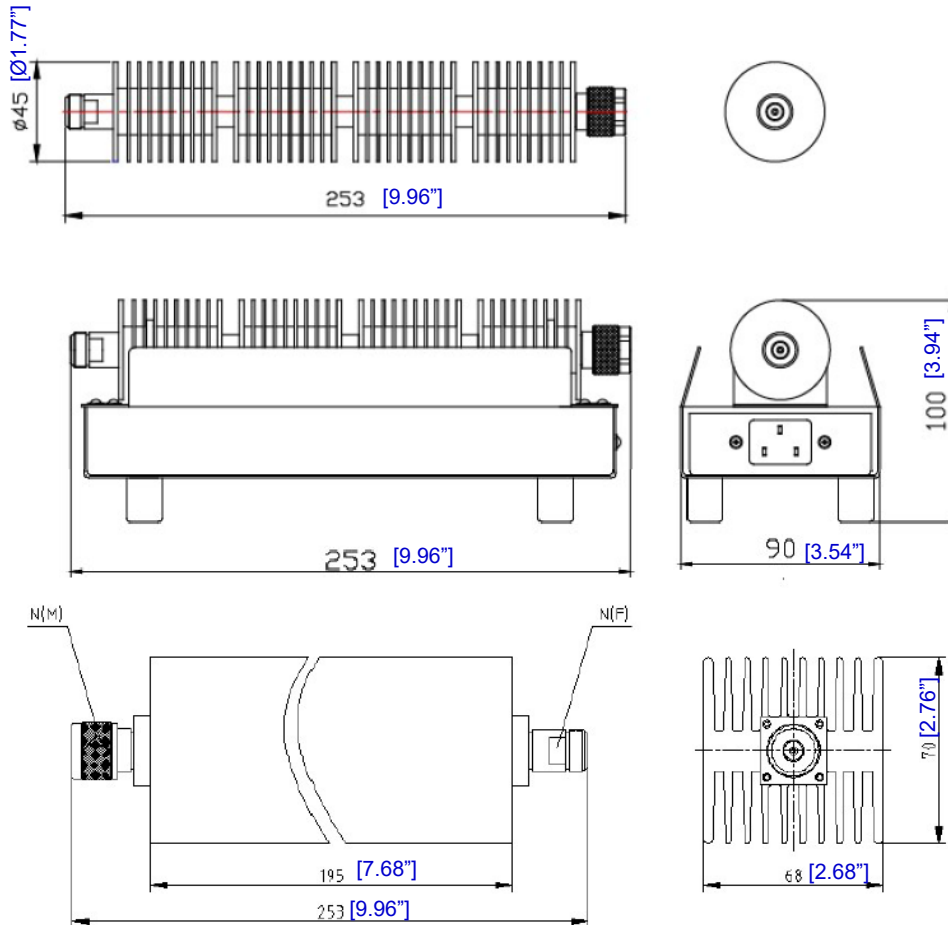
* Average Power:derated linearly to 10W @ 125°C.

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)

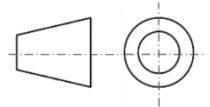
**For vibration testing details please see additional information section.

Outline Drawing



Notes:

1. Housing: Aluminum
2. Finish: Black Anodize
3. All dimensions are in millimeters [inches].
4. Tolerances $\pm 3\%$ 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
RFS100G18B	N,SMA,TNC	DC-18GHz Fixed Attenuator

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