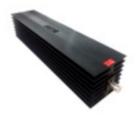


500W Coaxial Fixed Attenuator DC-12.4GHz



Product Description

The RFS500G12A is a coaxial fixed attenuator with a frequency range of DC to 12.4GHz.

The max average power of the attenuator is 500W. The max VSWR of 1.4:1.

The working temperature of this product is between - 55°C and + 125°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		Min	Тур	Max	Units	
Frequency Range		DC		12.4	GHz	
Attenuation Value & Accuracy -	30		-3.0/+4.0		- dB	
	40		-3.0/+3.0		ч	
VSWR				1.4	: 1	
Average Power				500	W	
Peak Power (5% Duty Cycle, 5us Pulse Width)				10	KW	
Impedance			50		Ω	
Weight			19.4		lbs.	
Input / Output Connectors		N-Male (Input) – N-Female (Output)				
Connectors		Brass Nickel Plated				
Male Pin		Brass Gold Plated				
Female Pin		Beryllium Copper Gold Plated				

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Environmental Specifications and Test Standards

Parameter	Description		
Operational Temperature	-55⁰C to +125°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	Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 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.

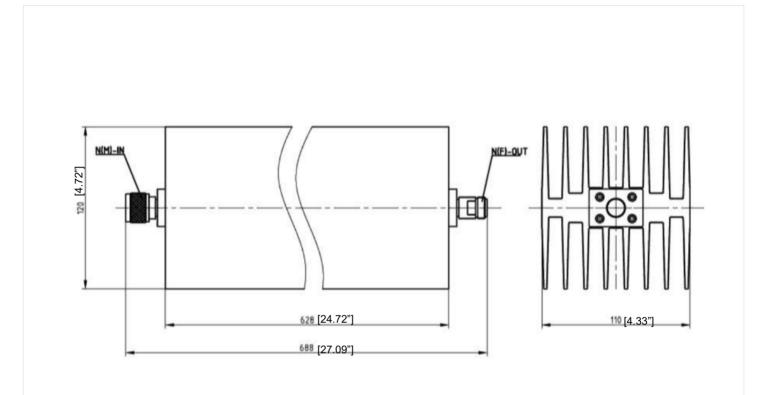
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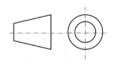


Outline Drawing



Notes:

- 1. Package Material: Aluminum
- 2. Finish: Black Anodized
- 3. All dimensions are in millimeters [inches].
- 4. 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	

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Ordering Information

Part Number	Modification	Description
RFS500G12A	Input connector N-Male and Output connector N-Female	DC-12.4GHz Fixed Attenuator

Important Notice

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