150W High Power Fixed Coaxial Attenuator

Product Description

RFS150GXA is a high power fixed attenuator.

The max average power of the attenuator is 150W.

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

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=+25ºC)

Parameter	Frequency (GHz)	VSWR (max.)	Attenuation Accuracy (dB)				Power (CW)	Peak Power(KW) (0.5% Duty Cycle, 5us Pulse Width)
			10	20	30	40~50		
RFS150G1A	DC-1	1.15	±0.5	±0.5	±0.5	±0.5	150	10
RFS150G2A	DC-2	1.20	±1.0	±1.0	±0.6	±0.6	150	10
RFS150G3A	DC-3	1.30	±1.5	±1.0	±0.8	±0.8	150	10
RFS150G4A	DC-4	1.35	±1.5	±1.5	±1.0	±1.0	150	10
Impedance	50Ω							
Weight	4 Max.lbs.							
Connectors	N or 7/16 (Male or Female)							

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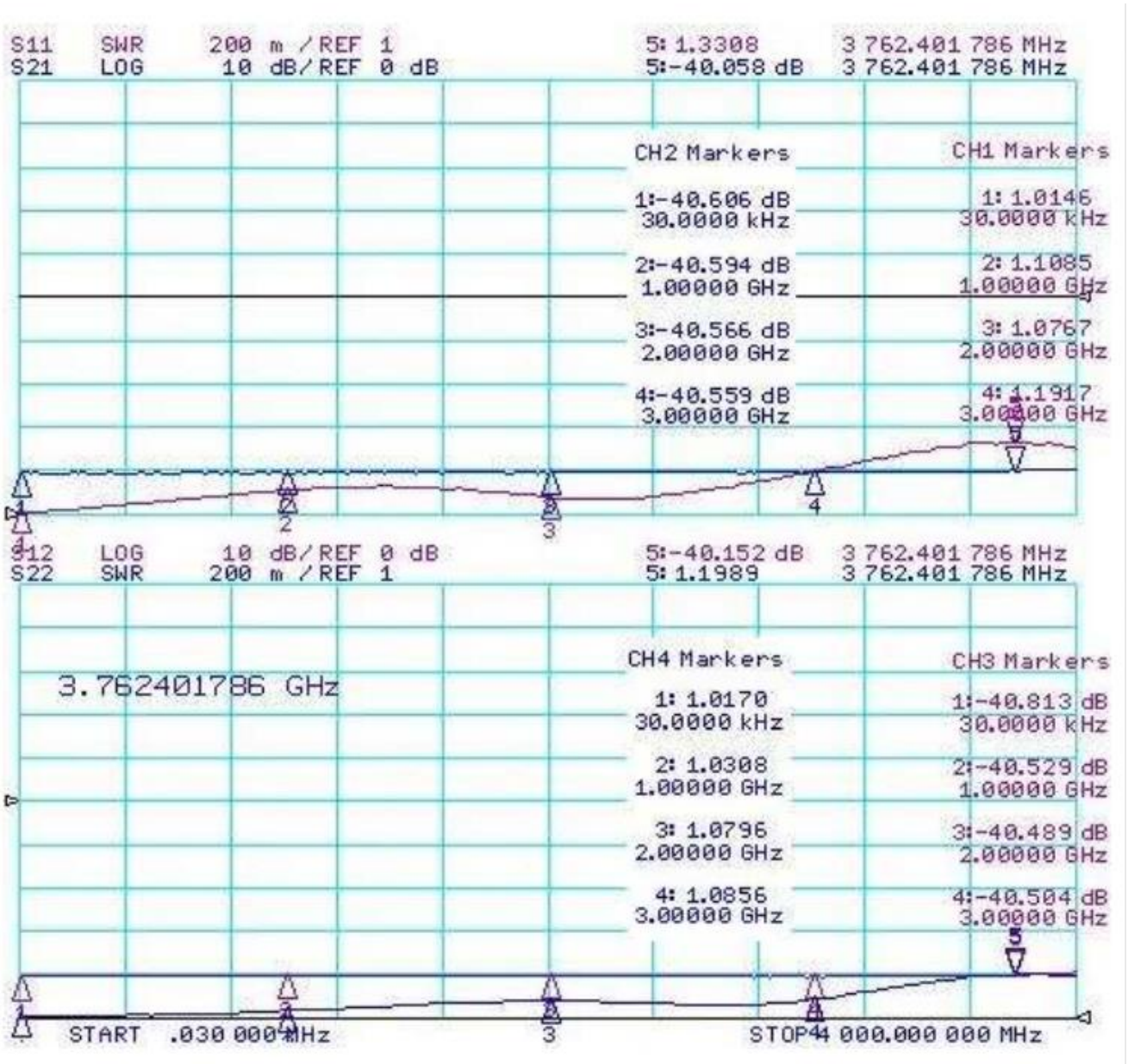
Environmental Specifications and Test Standards

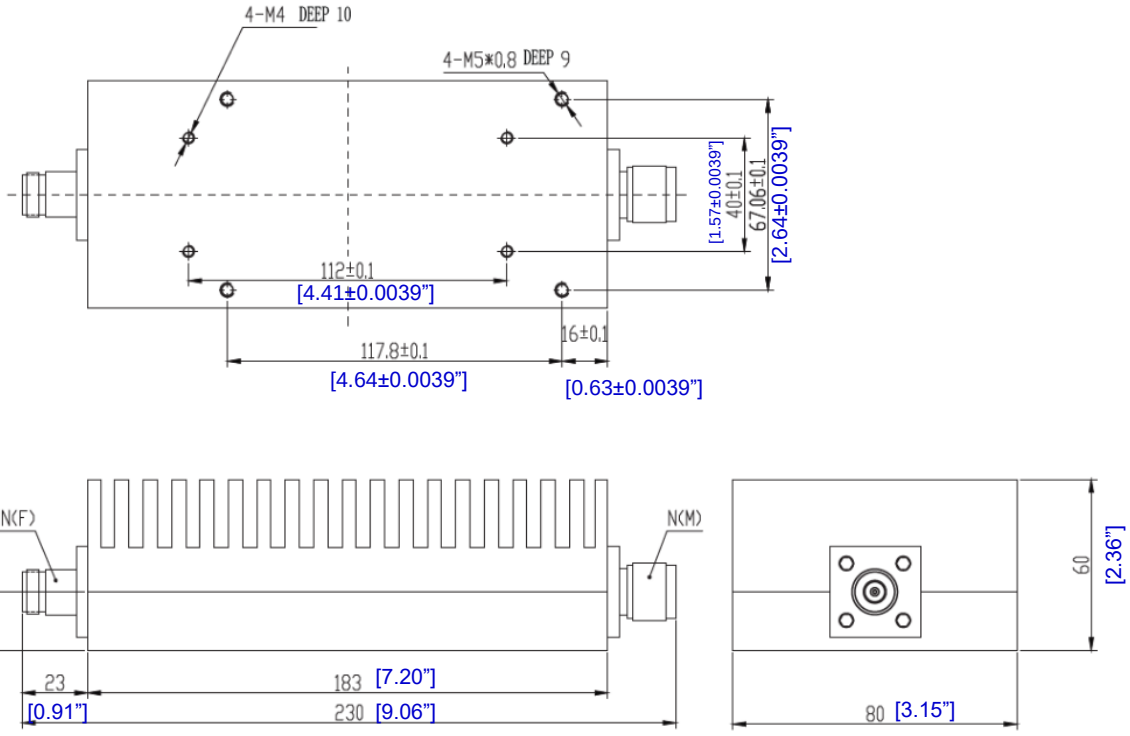
Parameter	Description
Operational Temperature	-40ºC to +85ºC (Case Temperature)
Storage Temperature	-55ºC to +125ºC
Thermal Shock	-40ºC → +85ºC (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +125ºC for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

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
RFS150GXA	N or 7/16 (Male or Female)	150W High Power Fixed Attenuator

Important Notice

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