300W High Power Fixed Termination
DC-3GHz

Product Description

RFST300G3A is a 300W high power coaxial termination with a frequency range of DC to 3GHz.

The connectors are N or 7/16.

Features

- High Power Handling: 300W
- Low VSWR

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)

Parameters	Min.	Typ.	Max.	Units
Frequency Range	DC		3	GHz
VSWR			1.20	:1
Average Power			300	W
Peak Power (0.5% Duty Cycle, 5us Pulse Width)			10	KW
Impedance		50		Ω
Connectors		N,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 +105ºC
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
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.

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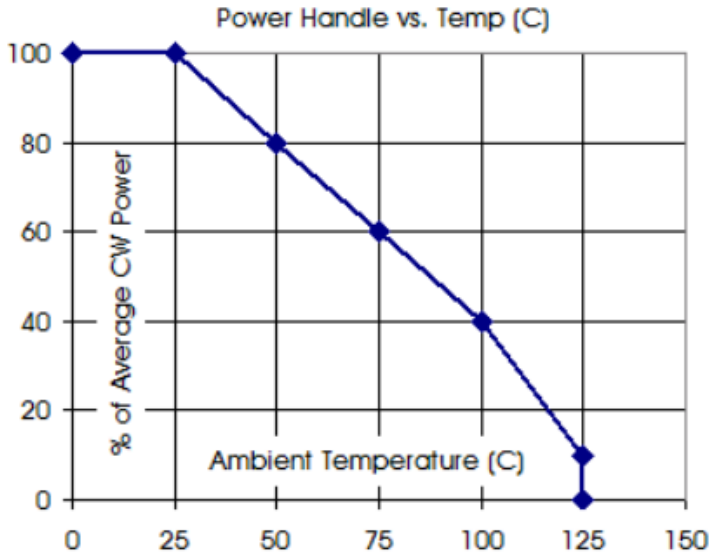
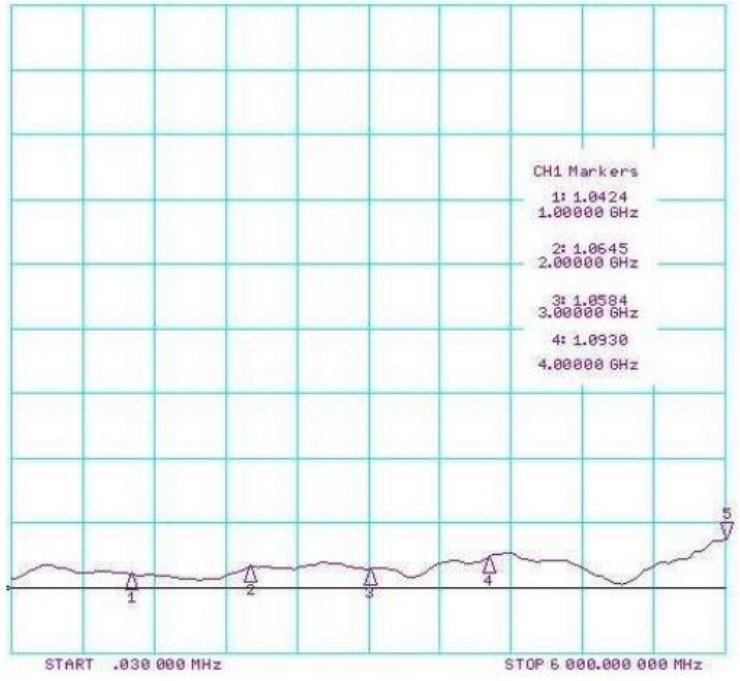
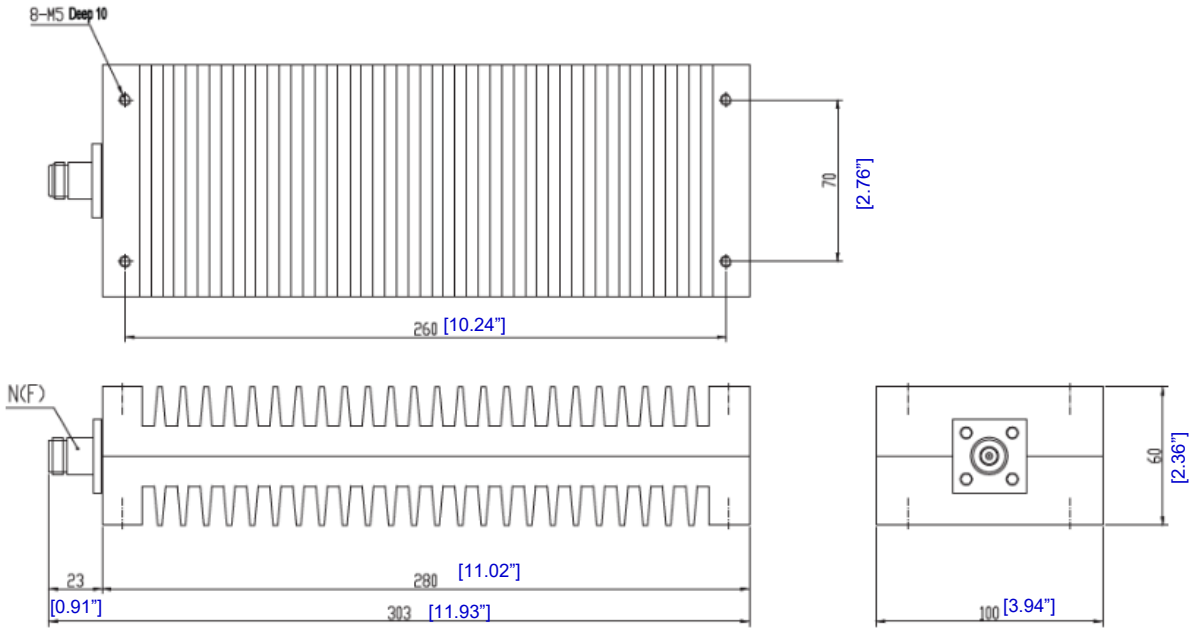
Typical Performance Plots

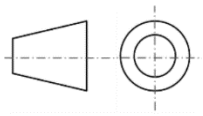




Outline Drawing



Notes:
1. External Finish : Body painted with 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
RFST300G3A	Connectors N,7/16	DC-3GHz 300W High Power Fixed Termination

Important Notice

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