

25W Coaxial Termination DC-12.4GHz



Product Description

RFST25G12 is a coaxial termination with a frequency range of DC to 12.4GHz.

The power of the termination is 50W. The max VSWR of 1.30:1.

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

Features

- Wide frequency Band
- 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=+25°C)

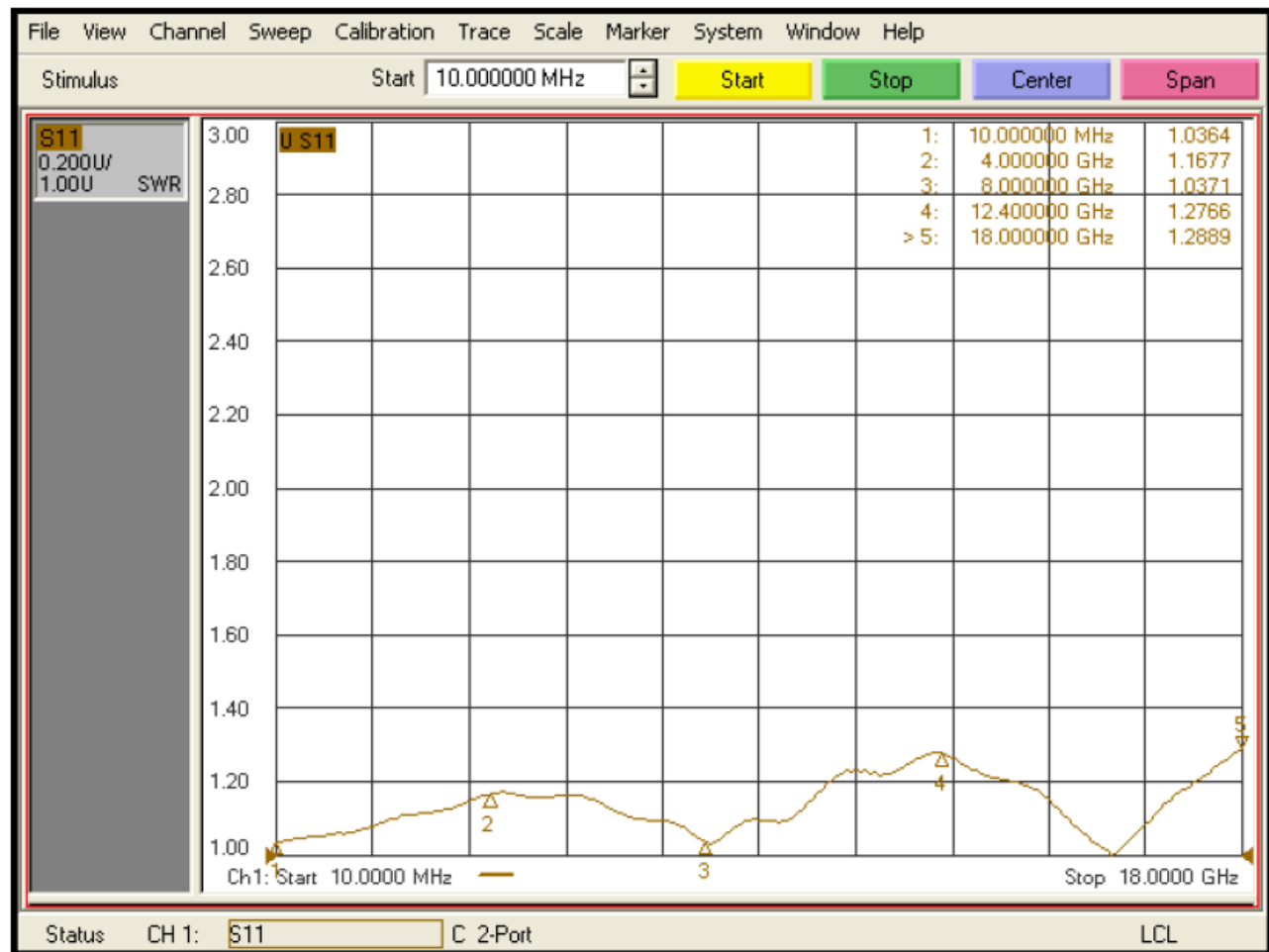
Parameter	Min	Typ	Max	Units
Frequency Range		DC-12.4		GHz
VSWR			1.3	: 1
Power Handling (CW)		25		W
Peak Power		1 (5μs pulse, 0.5% Duty Cycle)		KW
Impedance		50		Ω
Connectors		SMA, N, TNC, 7/16		
Package		Epoxy Sealed (Standard)		
		Hermetically Sealed (Optional)		

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)

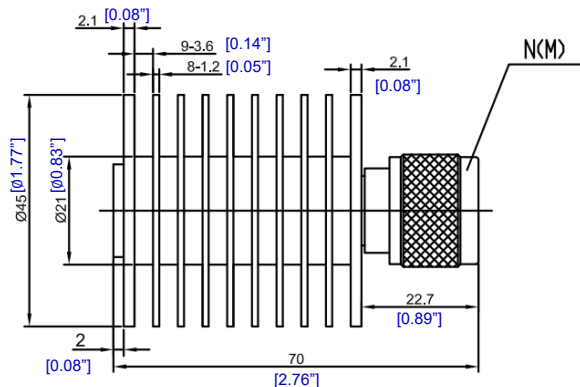
**For vibration testing details please see additional information section.

Typical Performance Plots

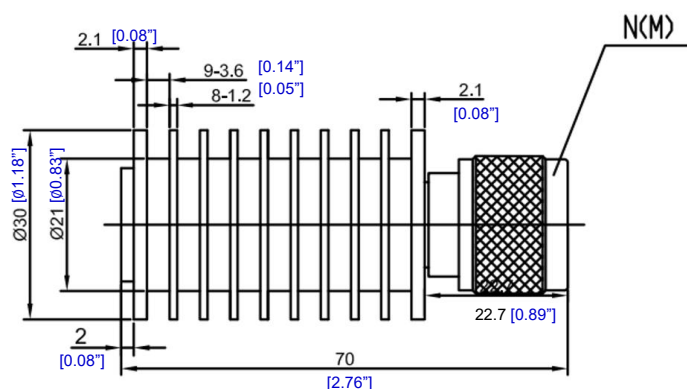


Outline Drawing

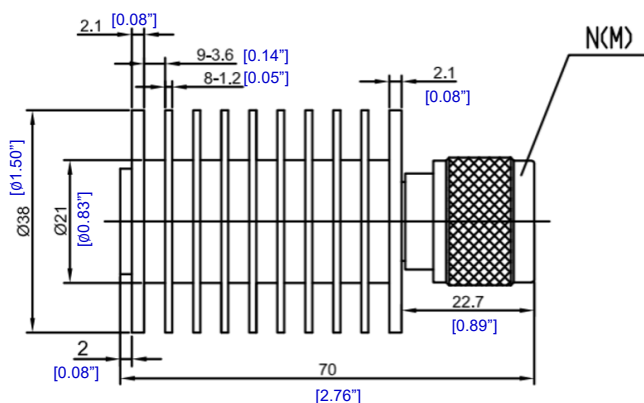
Type B :



Type C :



Type D :



Notes:

1. Finish: Body painted black epoxy enamel
2. All dimensions are in millimeters [inches].
3. Standard torque wrench must be used to secure RF connectors.

Additional Information

Documentation

ESD Policy

Webpage

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
RFST25G12	Connectors SMA, N, TNC, 7/16	DC-12.4GHz coaxial Termination

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