

25W Coaxial Termination DC-18GHz



Product Description

The RFST25G18 is a termination with a frequency range of DC to 18GHz.

The average power of the termination is 25W. The max VSWR of 1.25:1.

The working temperature of this product is between - 50°C and + 120°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		18	GHz
VSWR			1.25	: 1
Average Power	@25°C	25		W
	@125°C	2.5		
Peak Power		0.5		KW
Weight		0.11		lbs.
Impedance		50		Ω
Connector Type	SMA,N (TNC,BNC special requirement)			
Package	Epoxy Sealed (Standard)			
	Hermetically Sealed (Optional)			

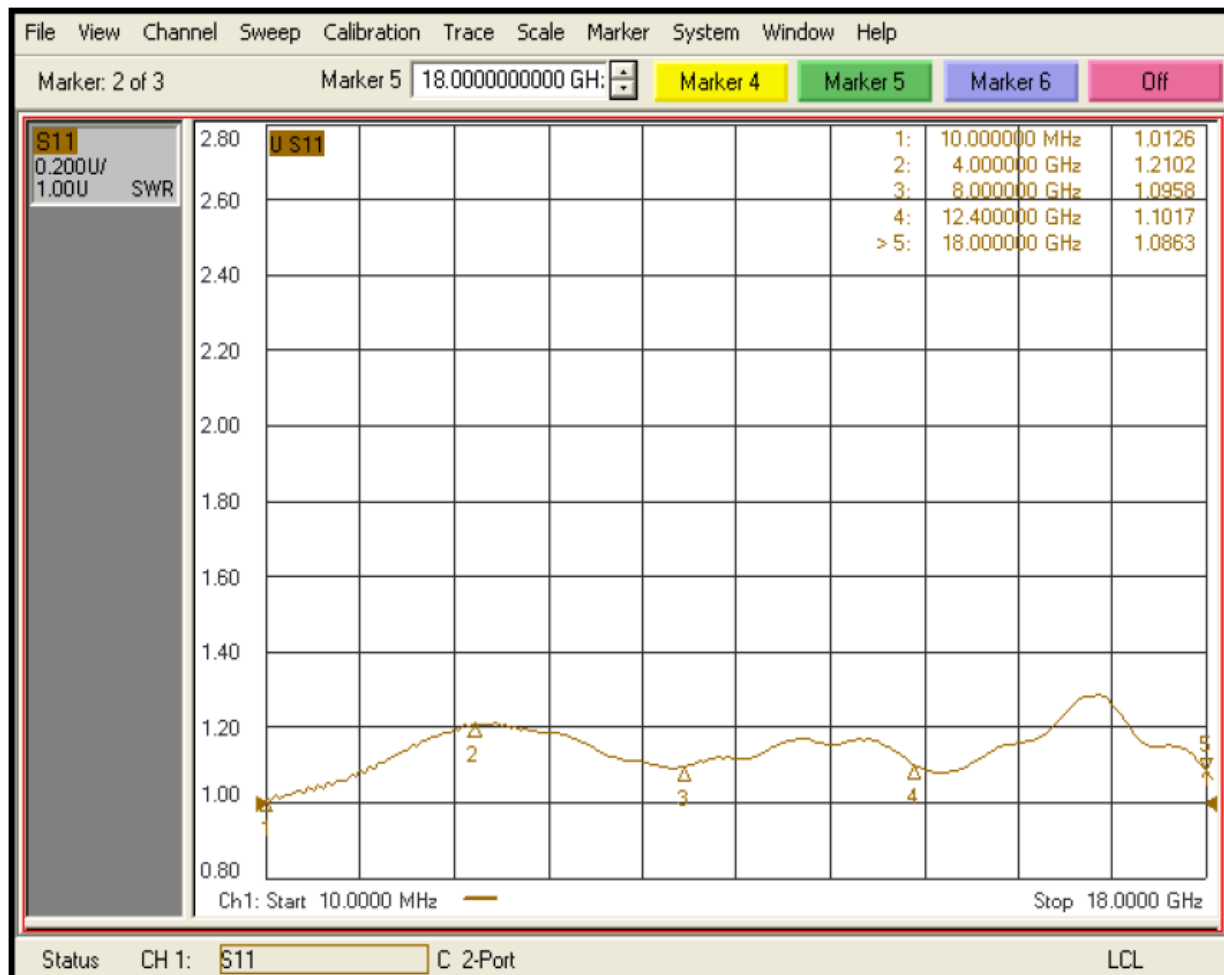
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-50°C to +120°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 +120°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)

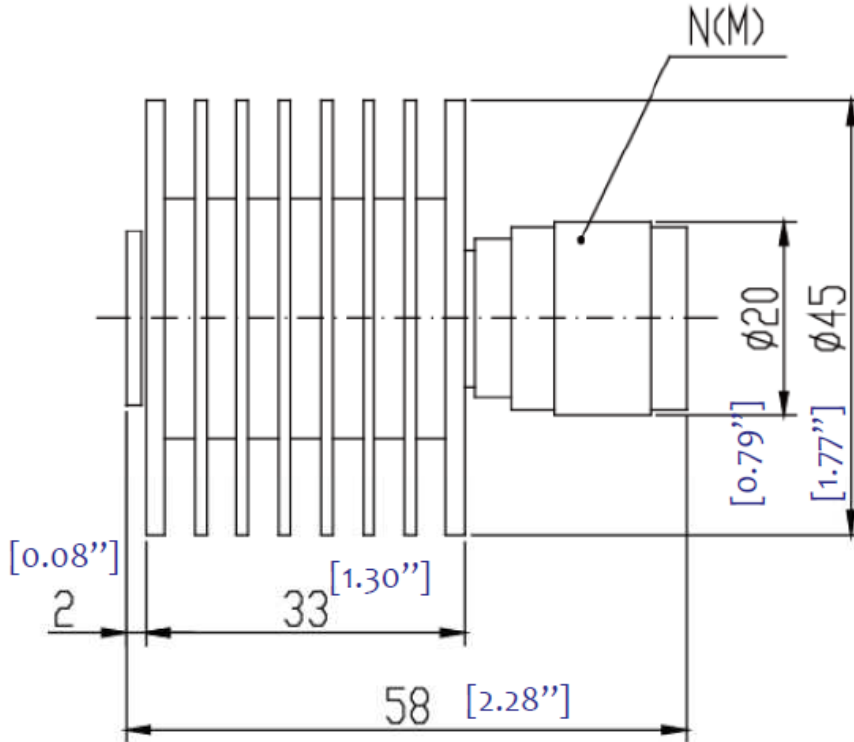
**For vibration testing details please see additional information section.

Typical Performance Plots

VSWR

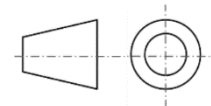


Outline Drawing



Notes:

1. Package Material: Aluminum or Copper
2. Finish: Body painted black epoxy enamel
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

Ordering Information

Part Number	Modification	Description
RFST25G18	SMA,N(TNC,BNC special requirement)	DC-18GHz Termination

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