

50W Coaxial Mismatch Termination Fc<18GHz ~ $\pm 5\%$ GHz



Product Description

RFMNST50G is a narrow band mis-match load with a frequency range of Fc<18GHz to $\pm 5\%$ GHz.

This narrowband mismatch load can handle 50W CW and is available in a variety of VSWR options. The center frequency can be selected up to 18GHz.

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)

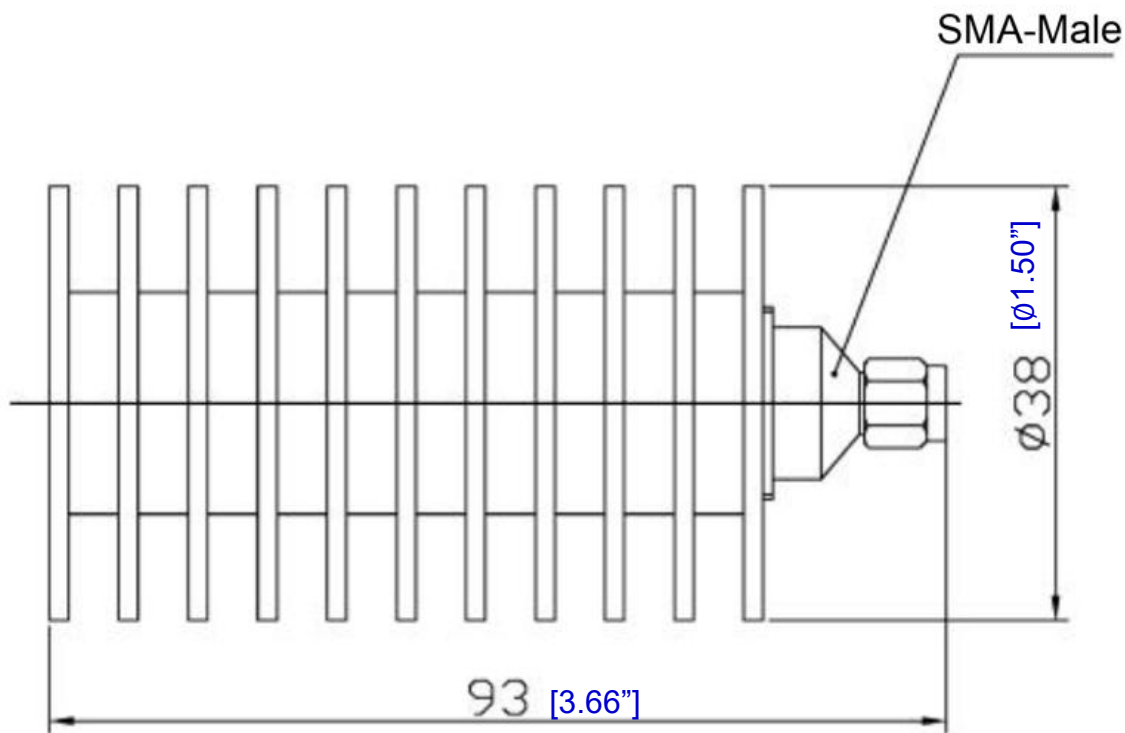
Parameter	Min	Typ	Max	Units
Frequency Range	Fc<18GHz~ $\pm 5\%$ GHz			GHz
VSWR	1.5,2,2.5,3,3.5,4,4.5,5 $\pm 7\%$			: 1
Average Power	50			W
Peak Power (5 μ s pulse width, 1% Duty Cycle)	5			KW
Weight	0.315 Max.			lbs.
Impedance	50			Ω
Connector Type	SMA-Male			
Connector Material	Brass Nickel Plated			
Male Pin	Brass Gold Plated			
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.

Outline Drawing



Notes:

1. Package Material: Aluminum
2. Finish: Black Anodized
3. All dimensions are in millimeters [inches].
4. Standard torque wrench must be used to secure RF connectors.
5. Actual size may vary depending on the frequency and VSWR value chosen



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
RFMNST50G	Standard	Fc<18GHz ~ ±5%GHz Mismatch Termination

Important Notice

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