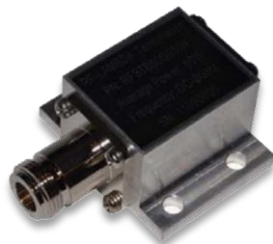


50W High Power Embedded Termination DC-6GHz



Product Description

RFSTB50G06 is a 50W High Power Embedded Termination with a frequency range of DC to 6GHz.

The connectors are N and SMA.

Features

- High Power Handling: 50W
- 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 ($T_A=+25^{\circ}\text{C}$)

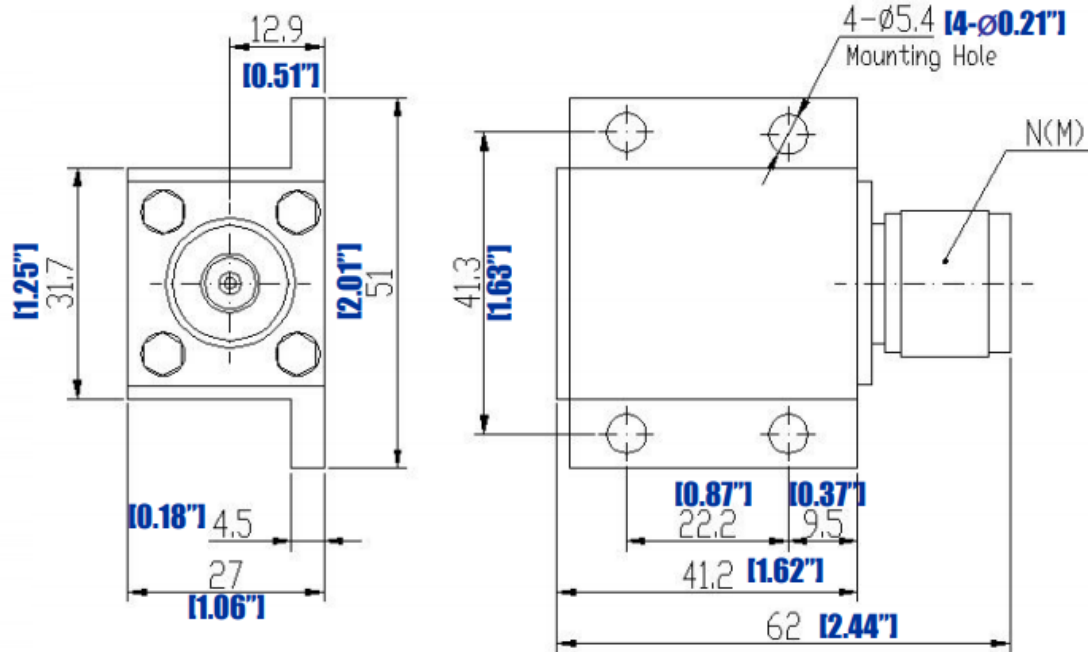
Parameters	Min.	Typ.	Max.	Units
Frequency Range	DC		6	GHz
VSWR			1.35	:1
Average Power			50	W
Peak Power			1	KW
Impedance		50		Ω
Coaxial Connectors	N,SMA (Stainless Steel Available Upon Special Request)			

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-55°C to +105°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
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. All dimensions are in millimeters [inches].
3. Tolerance ± 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
RFSTB50G06	Connectors N or SMA	DC-6GHz 50W High Power Embedded Termination
RFSTB50G06SF	Standard SMA Female	DC-6GHz 50W High Power Embedded Termination
RFSTB50G06NF	Standard N Female	DC-6GHz 50W High Power Embedded Termination
RFSTB50G06SM	Standard SMA Male	DC-6GHz 50W High Power Embedded Termination
RFSTB50G06NM	Standard N Male	DC-6GHz 50W High Power Embedded Termination

** Note: Add –SS to the Part Number for Stainless Steel Connector Option.

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