High Power

Termination

TERM-25W-183N+

50Ω 25W DC to 18 GHz

The Big Deal

- Ultra-wideband, DC to 18 GHz
- Excellent return loss, 22 dB typ. up to 18 GHz
- Input power handling, 25W
- Male N-type connector

CASE STYLE: LL2798

Product Overview

Mini-Circuits' TERM-25W-183N+ is an ultra-wideband 50 high power termination capable of absorbing signals up to 25W from DC to 18 GHz. It provides excellent return loss across its entire operating frequency range, effectively dissipating signal power with minimal reflections. This model has N-type male connectors, allowing connections with N-type female connectors. The unit features rugged construction for a long life of use and comes in passivated stainless steel connector with black anodized aluminum housing.

Key Features

Feature	Advantages
Wideband, DC to 18 GHz	Extremely wide frequency range provides application flexibility and makes this model ideal for broadband and multi-band use.
Good return loss: • 22 dB typ. up to 18 GHz	Good return loss minimizes signal reflections across multiple-decade frequency range
Power handling up to 25W	Meets a wide range of system power requirements.
Wide operating temperature range, -55 to +100˚C	Withstands tough operating conditions and is suitable for use near high power componentry where heat rise is common.

Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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Termination *N-Male*

TERM-25W-183N+

50Ω 25W DC to 18 GHz

Generic photo used for illustration purposes only

CASE STYLE: LL2798

Connector	Model
N-type Male	TERM-25W-183N+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

Features

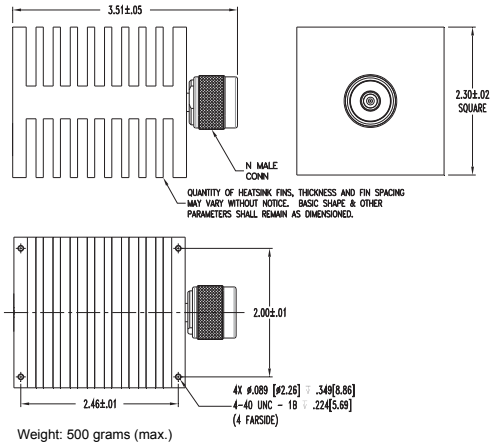
- Wideband coverage, DC to 18 GHz
- Return loss, 22 dB typ. up to 18 GHz
- Male N-type connector

Applications

- Cellular communications
- Satellite communications
- Test set-up
- Defense and Radar

Outline Dimensions

inches [mm]



Weight: 500 grams (max.)

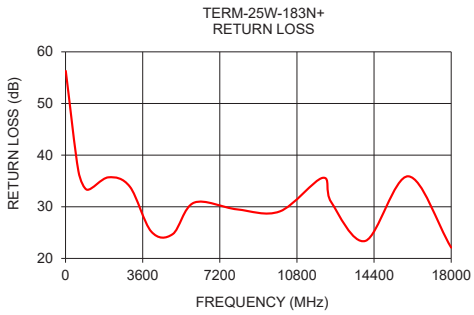
Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	18	GHz
Impedance			50		Ohms
Return Loss	DC - 6	20.8	32	—	dB
	6 - 12.4	17.7	30		
	12.4 - 18	15.5	29		
Input Power[1]	DC - 18	—	—	25	W

1. At 25°C, derate linearly to 10W at 100°C.

Typical Performance Data

Frequency (MHz)	Return Loss (dB)
10	56.30
600	36.90
1000	33.30
2000	35.70
3000	33.90
4000	25.20
5000	24.70
6000	30.80
8000	29.50
10000	29.10
12000	35.60
12400	30.90
14000	23.40
16000	35.90
18000	22.10



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