

COAXIAL Termination

TERM-10W-183N+

DC to 18 GHz N-Male 500

KEY FEATURES

- · Wideband Operation, DC to 18 GHz
- Input Power Handling, 10 W
- Excellent VSWR, 1.08 dB Typ.
- · Rugged Construction

Generic photo used for illustration purposes only

APPLICATIONS

- Cellular Communications
- Satellite Communications
- Test & Measurement Systems
- Defense & Radar

PRODUCT OVERVIEW

Mini-Circuits' TERM-10W-183N+ is a wideband 50Ω high power termination capable of absorbing signals up to 10 W 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's N-Type interface allows mating to any N-Female connector. The unit features rugged construction for a long life and comes in a Passivated Stainless-Steel housing.

ELECTRICAL SPECIFICATIONS¹ AT +25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Units
Frequency Range	-	DC	-	18	GHz
VSWR	DC - 10	-	1.04	1.35	:1
	10 - 18	-	1.18	1.40	

^{1.} Specifications are tested to minimum frequency of 0.01 GHz

ABSOLUTE MAXIMUM RATINGS²

Operating Case Temperature	-45° C to +80° C	
Storage Temperature	-45° C to +80° C	
Input Power ³	10 W	

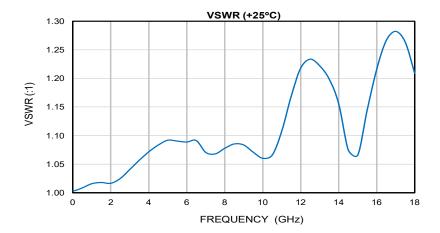
^{2.} Permanent damage may occur if any of these limits are exceeded. 3. At +25°C derate linearly to 1 W at 125°C.

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TYPICAL PERFORMANCE GRAPHS



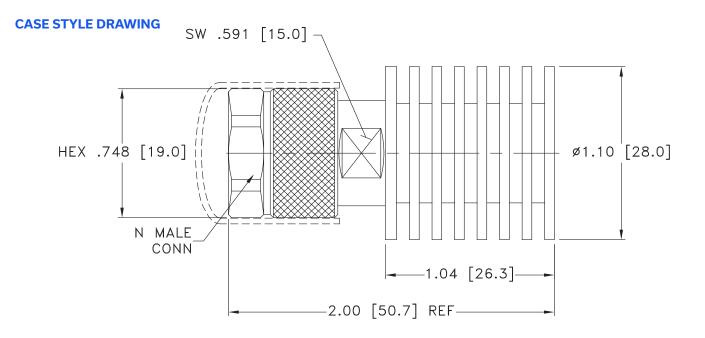
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CONNECTOR SPECIFICATIONS

Mini-Circuits

Description	Connector	
Connector Type	N-Male	
Orientation	Straight	



Weight: 65.5 grams MAX

Dimensions are in inches [mm]. Tolerances: 2 Pl.±0.3; 3 Pl. ± .015 inches

PRODUCT MARKING*: TERM-10W-183N+

*Marking may contain other features or characters for internal lot control.



Termination

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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

CLICK HERE

	Data
Performance Data & Graphs	Graphs
	S-Parameter (S1P Files) Data Set (.zip file)
Case Style	LL3725-1
RoHS Status	Compliant
Environmental Ratings	ENV153

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/terms/viewterm.html



TERM-10W-183N+ Termination 50 Ω , N-Male Typical Performance Data (+25°C) FREQ. **VSWR** (GHz) (:1)0.01 1.0 0.10 1.0 0.50 1.0 1.00 1.0 1.50 1.0 2.00 1.0 2.50 1.0 3.00 1.0 3.50 1.1 4.00 1.1 4.50 1.1 5.00 1.1 5.50 1.1 6.00

6.50

7.00

7.50

8.00

8.50

9.00

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17.50 18.00 1.1

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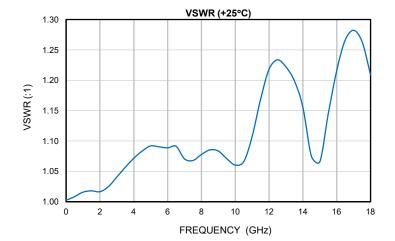
1.1

1.2

1.3

1.3 1.3 1.2

Typical Performance Curves



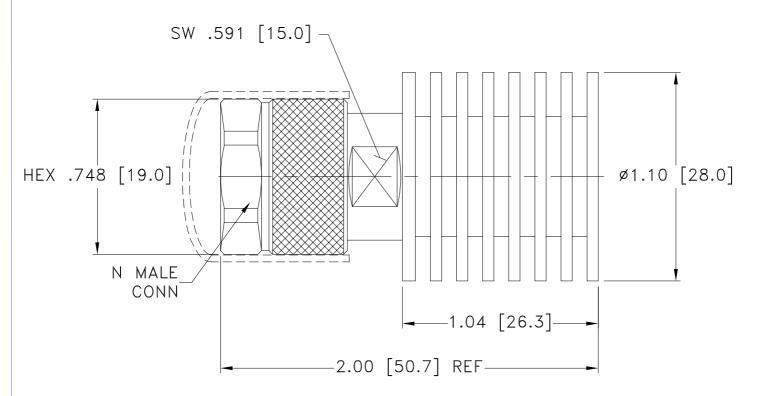


Case Style

LL

Outline Dimensions

LL3725-1



Weight: 65.5 grams MAX

Dimensions are in inches [mm]. Tolerances: 2 Pl. \pm .03; 3 Pl. \pm .015 inches

Notes:

Case material: Aluminum Alloy.
 Finish: Black Anodize.





P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

Environmental Specifications

ENV153



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-45° C to 125° C or -45° C to 80° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-45° C to 125° C or -45° C to 80° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-45° to 125° C 5 Cycles	MIL-STD-202, Method 107, Condition B except -45° C instead of -65° C
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I
Connector Durability	500 mating/unmating cycles	MIL-PRF-39012E, PARAGRAPH 4.6.12
Burn-In	5W for 16 hours; 10W for 16 hours	TERM-5W-183N+;TERM-10W-183N+

ENV153 Rev: OR

09/04/25

DCO-1857 File: ENV153.pdf