

Termination

TERM-5W-183N+

50Ω DC to 18 GHz N-Male

KEY FEATURES

- · Wideband Operation, DC to 18 GHz
- Input Power Handling, 5 W
- Excellent VSWR, 1.09 dB Typ.
- Rugged Construction



Generic photo used for illustration purposes only

+RoHS Compliant The +Suffix identifies RoHS Compliance. ee our website for methodologies and qualifications

APPLICATIONS

- Cellular Communications
- Satellite Communications
- Test Set-up
- Defense & Radar

PRODUCT OVERVIEW

Mini-Circuits' TERM-5W-183N+ is a wideband 50Ω high power termination capable of absorbing signals up to 5 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 has an N-type male connector, allowing connection to an N-type female connector. The unit features rugged construction for a long life and comes in a Passivated Stainless-Steel housing.

ELECTRICAL SPECIFICATIONS AT +25°C

| Parameter | Condition (GHz) | Min. | Тур. | Max. | Units |
|-----------------|-----------------|------|------|------|-------|
| Frequency Range | - | DC | - | 18 | GHz |
| VSWR | DC - 10 | - | 1.04 | 1.30 | .1 |
| | 10 - 18 | - | 1.15 | 1.35 | .1 |

ABSOLUTE MAXIMUM RATINGS¹

| Operating Case Temperature | -45° C to +125° C | |
|----------------------------|-------------------|--|
| Storage Temperature | -45° C to +125° C | |
| Input Power ² | 5 W | |

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

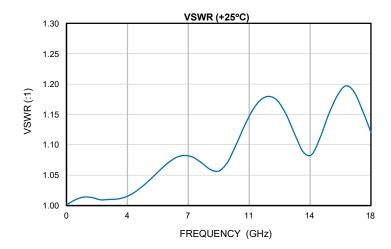
2. At +25°C derate linearly to 0.5 W at 125°C.

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TYPICAL PERFORMANCE GRAPHS

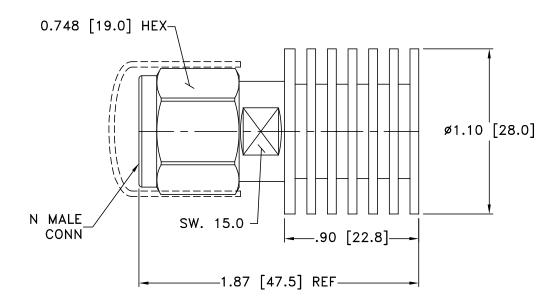


50Ω DC to 18 GHz N-Male

CONNECTOR SPECIFICATIONS

| Description | Connector | |
|----------------|-----------|--|
| Connector Type | N-Male | |
| Orientation | Straight | |

OUTLINE DRAWING



Weight: 65.0 grams MAX Dimensions are in inches [mm]. Tolerances: 2 Pl.±.03; 3 Pl. ±.015 inches

PRODUCT MARKING*: TERM-5W-183N+

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



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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 |
| RoHS Status | Compliant |
| Environmental Ratings | ENV151 |

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



Fixed Attenuator

TERM-5W-183N+

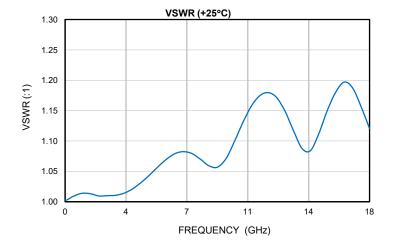
Typical Performance Data (+25°C)

| FREQ. | VSWR |
|-------|------|
| (MHz) | (:1) |
| 10 | 1.0 |
| 100 | 1.0 |
| 500 | 1.0 |
| 1000 | 1.0 |
| 1500 | 1.0 |
| 2000 | 1.0 |
| 2500 | 1.0 |
| 3000 | 1.0 |
| 3500 | 1.0 |
| 4000 | 1.0 |
| 4500 | 1.0 |
| 5000 | 1.0 |
| 5500 | 1.1 |
| 6000 | 1.1 |
| 6500 | 1.1 |
| 7000 | 1.1 |
| 7500 | 1.1 |
| 8000 | 1.1 |
| 8500 | 1.1 |
| 9000 | 1.1 |
| 9500 | 1.1 |
| 10000 | 1.1 |
| 10500 | 1.1 |
| 11000 | 1.2 |
| 11500 | 1.2 |
| 12000 | 1.2 |
| 12500 | 1.2 |
| 13000 | 1.1 |
| 13500 | 1.1 |
| 14000 | 1.1 |
| 14500 | 1.1 |
| 15000 | 1.1 |
| 15500 | 1.2 |
| 16000 | 1.2 |
| 16500 | 1.2 |
| 17000 | 1.2 |
| 17500 | 1.2 |
| 18000 | 1.1 |



TERM-5W-183N+

Typical Performance Curves



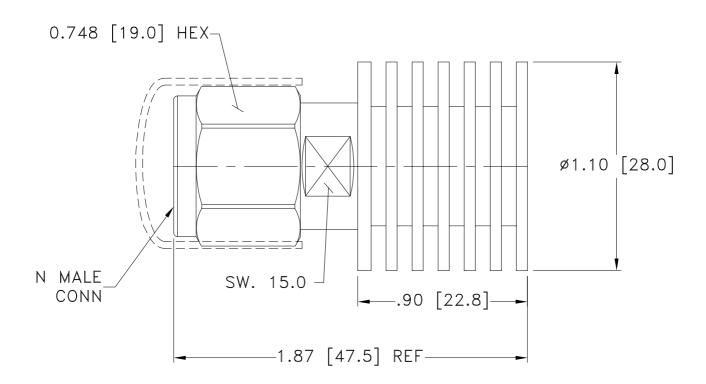


Case Style

LL

Outline Dimensions

LL3725



Weight: 65.0 grams MAX

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

Case material: Stainless steel.
 Finish: Passivated.





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

ENV151



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 Ambient Environment | Individual Model Data Sheet |
| Storage Temperature | -45° C to 125° 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) | 0.06In peak, 10-55 Hz, 120 cycles for each axis | MIL-STD-20MIL2H, Method 201 |
| Mechanical Shock | 100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18) | MIL-STD-202H, Method 213, Condition I |
| Connector Durability | 500 mating/unmating cycles | MIL-PRF-39012E, PARAGRAPH 4.6.12 |
| Burn-In | 5W for 16 hours | |

ENV151 Rev: OR

05/12/25

DCO-1757 File: ENV151.pdf