

COAXIAL Termination

TERM-10W-183S+

DC to 18 GHz SMA-Male 500

KEY FEATURES

- · Wideband Operation, DC to 18 GHz
- Input Power Handling, 10 W
- Excellent VSWR, 1.07 dB Typ.
- · Rugged Construction

Generic photo used for illustration purposes only

APPLICATIONS

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

PRODUCT OVERVIEW

Mini-Circuits' TERM-10W-183S+ 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 SMA-Male Interface, allows mating to any SMA-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	-	1.03	1.35	:1
	10 - 18	-	1.14	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	

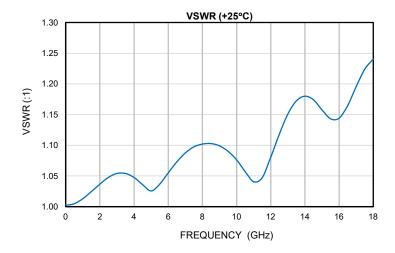
^{2.} Permanent damage may occur if any of these limits are exceeded. 3. At +25°C derate linearly to 1 W at 125°C.

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TYPICAL PERFORMANCE GRAPHS



TERM-10W-183S+

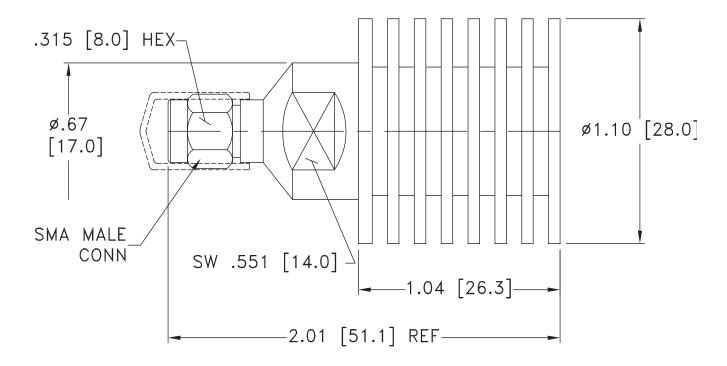
50Ω DC to 18 GHz SMA-Male

CONNECTOR SPECIFICATIONS

Mini-Circuits

Description	Connector	
Connector Type	SMA-Male	
Orientation	Straight	

CASE STYLE DRAWING



Weight: 53.5 grams MAX

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

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

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



Termination

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50Ω DC to 18 GHz SMA-Male

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD CLICK HERE

	Data	
Performance Data & Graphs	Graphs	
	S-Parameter (S1P Files) Data Set (.zip file)	
Case Style	LL3724-1	
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

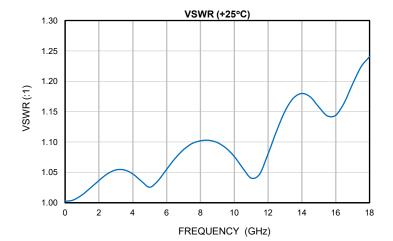


TERM-10W-183S+ Termination 50 Ω , SMA-Male Typical Performance Data (+25°C) FREQ. **VSWR** (GHz) (:1) 0.01 1.0 0.10 1.0 0.50 1.0 1.00 1.0 1.50 1.0 2.00 1.0 2.50 1.0 3.00 1.1 3.50 1.1 4.00 1.0 4.50 1.0 5.00 1.0 5.50 1.0 6.00 1.1 6.50 1.1 7.00 1.1 7.50 1.1 8.00 1.1 8.50 1.1 9.00 1.1 9.50 1.1 10.00 1.1 10.50 1.1 11.00 1.0 11.50 1.0 12.00 1.1 12.50 1.1 13.00 1.2 13.50 1.2 14.00 1.2 14.50 1.2 15.00 1.2 15.50 1.1 16.00 1.1 16.50 1.2 17.00 1.2 1.2 1.2 17.50

18.00



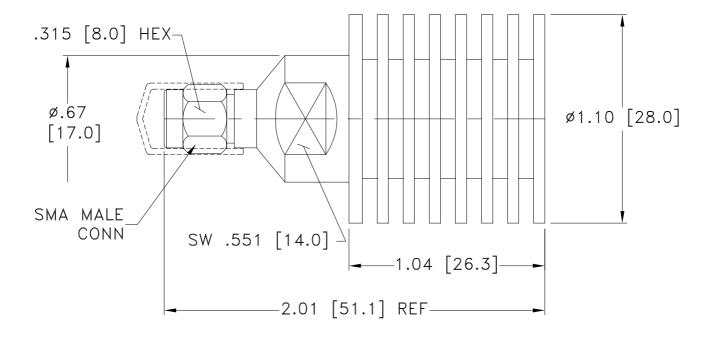
Typical Performance Curves





Outline Dimensions

LL3724-1



Weight: 53.5 grams MAX

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

Case material: Aluminum Alloy.
 Finish: Black Anondize.





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

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