COAXIAL

Termination

TERM-2W-183S+

50Ω DC to 18 GHz SMA-Male

KEY FEATURES

- Wideband Operation, DC to 18 GHz
- Input Power Handling, 2 W
- Excellent VSWR, 1.09 dB Typ.
- Rugged Construction

Generic photo used for illustration purposes only

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

APPLICATIONS

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

PRODUCT OVERVIEW

Mini-Circuits' TERM-2W-183S+ is a wideband 50Ω high power termination capable of absorbing signals up to 2 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 SMA-Male connector, allowing connections with SMA-Female connectors. The unit features rugged construction for a long life and comes in a Nickel-plated Brass housing.

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	DC	-	18	GHz
VSWR	DC - 6	-	1.04	1.33	:1
	6 - 12	-	1.07	1.33	
	12 - 18	-	1.16	1.33	

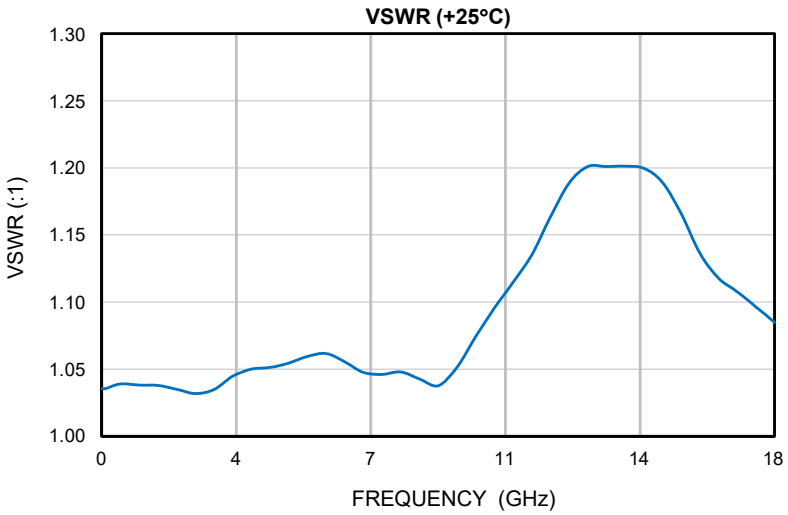
ABSOLUTE MAXIMUM RATINGS[1]

Operating Case Temperature	-40° C to +120° C
Storage Temperature	-40° C to +120° C
Input Power[2]	2 W

1. Permanent damage may occur if any of these limits are exceeded.
2. At +25°C derate linearly to 0.5 W at +120°C.

REV. OR
ECO-025413
TERM-2W-183S+
MCL NY
250425

TYPICAL PERFORMANCE GRAPH



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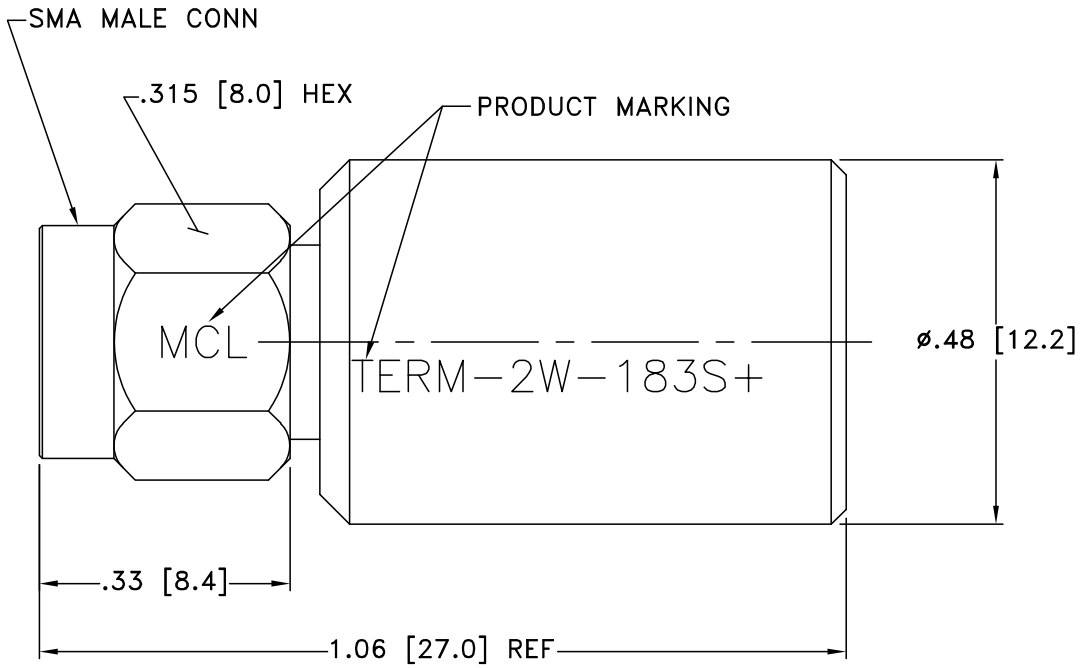
CONNECTOR SPECIFICATIONS

Description	Connector
Connector Type	SMA-Male
Orientation	Straight

OUTLINE DRAWING



Weight: 21 grams MAX
Dimensions are in inches [mm]. Tolerances: 2 Pl.±.03; 3 Pl. ± .015 inches

PRODUCT MARKING*: TERM-2W-183S+
*Marking may contain other features or characters for internal lot control.

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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD CLICK HERE

Performance Data & Graphs	Data Graphs S-Parameter (S1P Files) Data Set (.zip file)
Case Style	LL3658
RoHS Status	Compliant
Environmental Ratings	ENV150

NOTES

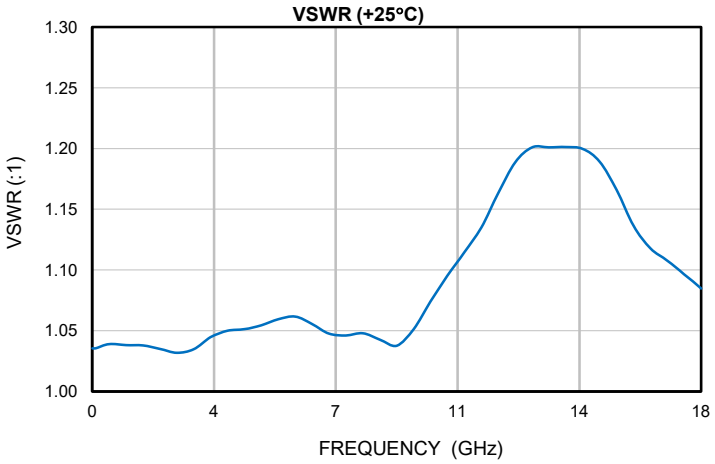
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's 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-2W-183S+

Typical Performance Data (+25°C)

FREQ. (MHz)	VSWR (: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	1.1
4500	1.1
5000	1.1
5500	1.1
6000	1.1
6500	1.1
7000	1.0
7500	1.0
8000	1.0
8500	1.0
9000	1.0
9500	1.1
10000	1.1
10500	1.1
11000	1.1
11500	1.1
12000	1.2
12500	1.2
13000	1.2
13500	1.2
14000	1.2
14500	1.2
15000	1.2
15500	1.2
16000	1.1
16500	1.1
17000	1.1
17500	1.1
18000	1.1

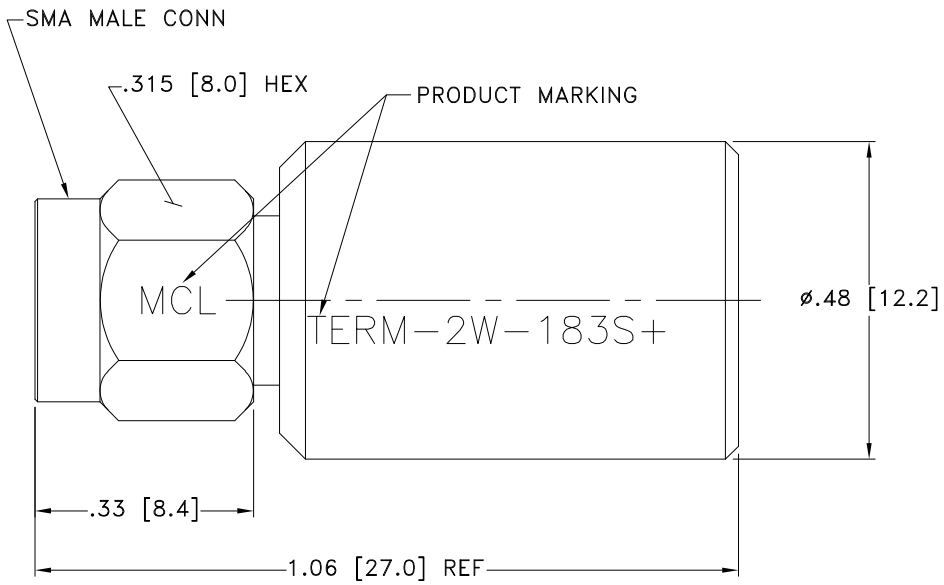
Typical Performance Curves



Case Style LL

Outline Dimensions

LL3658



Weight: 21 grams MAX

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

Notes:

1. Case material: Brass.
2. Finish: Nickel Plating.

Mini-Circuits

Environmental Specifications ENV150

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	-40° to 120° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-40° to 120° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55 to 125°C, 10 Cycles	MIL-STD-202, Method 107, Condition B
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	2W for 16 hours	....