

Termination

TERM-50W-183S+

50Ω 50W DC to 18 GHz SMA Male

THE BIG DEAL

- · Ultra-Wideband Operation, DC to 18 GHz
- Input Power Handling, 50W
- Excellent Return Loss, 26 dB Typ. up to 18 GHz

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Generic photo used for illustration purposes only

Model No.	TERM-50W-183S+
Case Style	LL2798-3
Connectors	SMA Male

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

APPLICATIONS

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

PRODUCT OVERVIEW

Mini-Circuits' TERM-50W-183S+ is an ultra-wideband 50Ω high power termination capable of absorbing signals up to 50W 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 SMA male connectors, allowing connections with SMA 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

Features	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: - 26 dB typ. up to 18 GHz	Good return loss minimizes signal reflections across multiple-decade frequency range	
Power Handling up to 50W	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.	



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ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Units
Frequency Range	-	DC	-	18	GHz
	DC - 6	19.1	35	-	
Return Loss	6 - 12.4	16.5	28	-	dB
	12.4 - 18	14.7	26	-	
Input Power ¹	DC - 18	-	-	50	W

^{1.} At 25°C, derate linearly to 20W at 100°C.

ABSOLUTE MAXIMUM RATINGS²

Parameter	Ratings
Operating Temperature	-55 °C to +100 °C
Storage Temperature	-55 °C to +100 °C

^{2.} Permanent damage may occur if any of these limits are exceeded.



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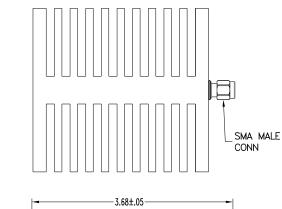
TERM-50W-183S+

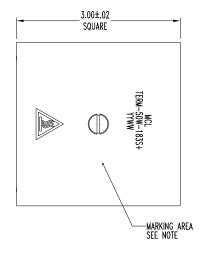
 50Ω 50W DC to 18 GHz SMA Male

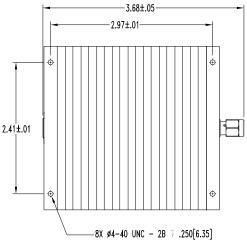
COAXIAL CONNECTIONS

Input	SMA Male

OUTLINE DRAWING







Weight: 862 grams (max.)



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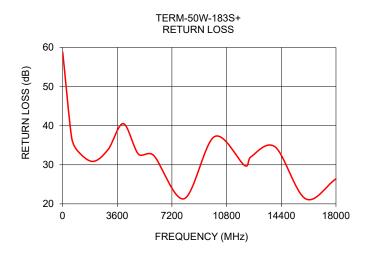
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TYPICAL PERFORMANCE DATA / GRAPHS

Frequency (MHz)	Return Loss (dB)
10	58.83
600	36.92
1000	33.51
2000	30.85
3000	33.90
4000	40.51
5000	32.70
6000	32.38
8000	21.31
10000	37.20
12000	29.78
12400	32.02
14000	34.56
16000	21.29
18000	26.40



NOTE

- 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

