

# High Power Termination

## TERM-25W-183S+

50Ω 25W DC to 18 GHz

### The Big Deal

- Ultra-wideband, DC to 18 GHz
- Excellent return loss, 26 dB typ. up to 18 GHz
- Input power handling, 25W
- SMA male connector



CASE STYLE: LL2798-1

### Product Overview

Mini-Circuits' TERM-25W-183S+ is an ultra-wideband 50 high power termination capable of absorbing signals up to 25W 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

Feature	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 25W	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 components where heat rise is common.

#### 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/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)



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## SMA-Male

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50Ω 25W DC to 18 GHz

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

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

### Features

- Wideband coverage, DC to 18 GHz
- Return loss, 26 dB typ. up to 18 GHz
- SMA male connector



CASE STYLE: LL2798-1

Connector	Model
SMA Male	TERM-25W-183S+

### +RoHS Compliant

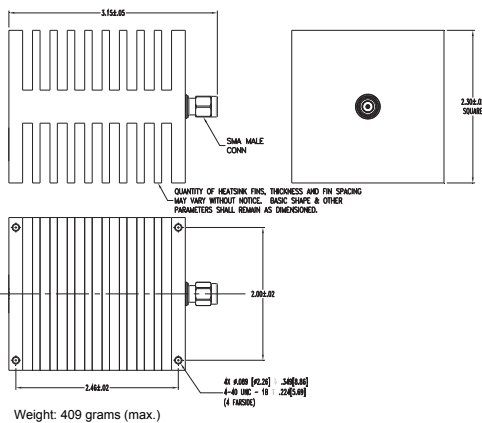
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Applications

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

### Outline Dimensions

inches (mm)



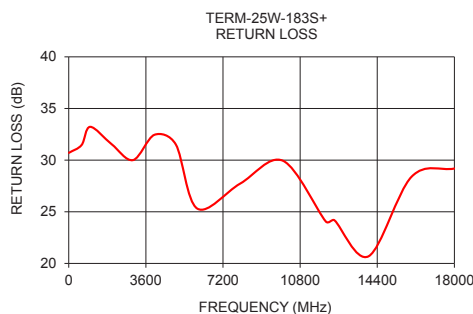
### Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	18	GHz
Impedance			50		Ohms
Return Loss	DC - 6	20.8	34	—	dB
	6 - 12.4	17.7	30		
Input Power <sup>1</sup>	12.4 - 18	15.5	26		W
	DC - 18	—	—	25	

1. At 25°C, derate linearly to 10W at 100°C.

### Typical Performance Data

Frequency (MHz)	Return Loss (dB)
10	30.71
600	31.47
1000	33.22
2000	31.54
3000	30.00
4000	32.45
5000	31.51
6000	25.31
8000	27.73
10000	29.94
12000	24.06
12400	24.18
14000	20.70
16000	28.39
18000	29.18



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