Coaxial **SMP** Termination

SMPF-TERM50+

DC to 18 GHz 50Ω

The Big Deal

- SMP-F connector
- Excellent return loss, 26 dB up to 8 GHz; 20 dB up to 18 GHz
- Input power handling up to 1W



CASE STYLE: LL2145

Product Overview

Mini-Circuits' SMPF-TERM50+ is a wideband 50Ω termination capable of absorbing signals up to 1W from DC to 18 GHz. This model provides excellent return loss across its entire operating frequency range, effectively dissipating power with minimal signal reflection. The unit features and SMP-F connector with rugged construction for a long life of use and comes in a gold-plated beryllium copper case measuring only 0.5 (l) x 0.19" (dia.).

Feature	Advantages		
Wideband, DC to 18 GHz	Wide frequency range provides application flexibility and makes this model ideal for broad- band and multi-band use.		
Good return loss: • 26 dB up to 8 GHz • 20 dB up to 18 GHz	Good return loss minimizes signal reflections across multiple-decade frequency range.		
SMP-female connector	Provides termination for assemblies using SMP connector types without the need for ad- ditional adapters.		
Power handling up to 1W	SMPF-TERM50+ meets a wide range of system power requirements in a small device size.		
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.		

Kev Features

- 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



Coaxial **SMP** Termination

50Ω

SMP-FEMALE

А

.189

4.8

в

.500

12.7

DC to 18000 MHz

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

Outline Drawing

Outline Dimensions (^{inch}_{mm})

D

.134

3.4

Е

wt

0.8

grams

С

.130

3.3

ANTI LOCK RING

Features

- wideband coverage, DC to 18000 MHz
- return loss, 26 dB typ. up to 8000 MHz and 20 dB typ. 8000 to 18000 MHz
- rugged construction

Applications

- cellular communications
- · satellite communications
- · test set-up
- defense & radar

SMPF-TERM50+



CASE STYLE: LL2145

Connector SMP-FEMALE Model SMPF-TERM50+

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

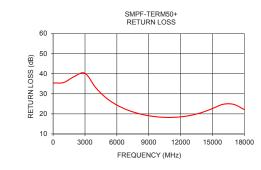
Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	_	18000	MHz
Impedance			50		Ohms
Return Loss	DC - 4000	26	32	_	dB
	4000 - 8000	17	26	—	
	8000 - 18000	16	20	—	
Input Power ¹	DC - 18000	_	_	1.0	W

1. At 50°C, derate linearly to 350mW at 100°C

Typical Performance Data

Frequency (MHz)	Return Loss (dB)	
10	35.36	
1000	35.61	
2000	38.63	
3000	40.21	
4000	33.12	
5000	27.90	
6000	24.39	
7000	21.93	
8000	20.21	
9000	19.06	
10000	18.41	
11000	18.22	
12000	18.51	
13000	19.31	
14000	20.68	
15000	22.67	
16000	24.77	
17000	24.71	
18000	22.09	



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