

# Termination TNC

## TTRM-50+

50Ω

DC to 6000 MHz

### The Big Deal

- TNC-Male connector
- Excellent return loss, 26 dB
- Input power handling up to 2W



CASE STYLE: LL1178

### Product Overview

Mini-Circuits' TTRM-50+ is a wideband 50Ω termination capable of absorbing signals up to 2W from DC to 6000 MHz. This model provides excellent return loss across its entire operating frequency range, effectively dissipating power with minimal signal reflection. The unit features a TNC-Male connector with rugged construction for a long life of use and comes in a Cu-Sn-Zn plated brass case measuring only 1.10 (l) x 0.48" (dia.).

### Key Features

Feature	Advantages
Wideband, DC to 6000 GHz	Wide frequency range provides application flexibility and makes this model ideal for broadband and multi-band use.
Good return loss, 26 dB	Good return loss minimizes signal reflections across multiple-decade frequency range.
TNC-Male connector	Provides termination for assemblies using TNC connector types without the need for additional adapters.
Power handling up to 2W	TTRM-50+ 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.

#### 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.  
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TTRM-50+



(picture for reference only)

CASE STYLE: LL1178

Connectors Model  
TNC-Male TTRM-50+

**+RoHS Compliant**

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

## Maximum Ratings

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

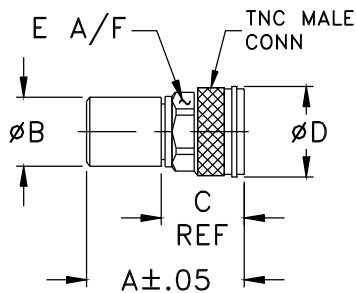
## Features

- wideband, DC to 6000 MHz
- return loss, 26 dB typ. from DC to 6000 MHz
- rugged construction

## Applications

- cellular communications
- satellite communications
- test set-up

## Outline Drawing



## Electrical Specifications

FREQUENCY (MHz)	IMPEDANCE (OHMS)	RETURN LOSS (dB) MIN.			POWER RATING* (W)
		DC-2 GHz	DC-4 GHz	DC-6 GHz	
DC-6000	50	24	22	21	2

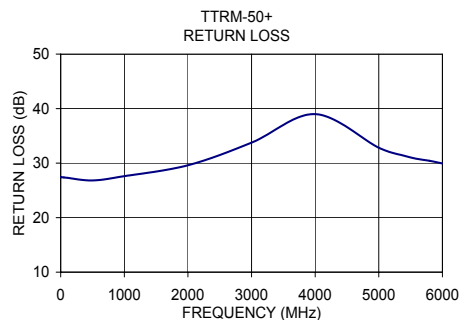
\* At 25°C, derate linearly at 1Watt at 100°C.

## Typical Performance Data

Frequency (MHz)	Return Loss (dB)
1.00	27.44
5.00	27.43
10.00	27.42
50.00	27.38
100.00	27.31
500.00	26.83
1000.00	27.61
2000.00	29.60
3000.00	33.76
4000.00	38.99
5000.00	32.83
5400.00	31.35
5600.00	30.78
5800.00	30.43
6000.00	29.93

## Outline Dimensions (inch/mm)

A	B	C	D	E	wt
1.10	0.48	0.58	0.63	0.551	grams
27.94	12.19	14.73	16.00	14.00	24.0



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