

TNC / N-Type Fixed Attenuator

BW-40TMNF100W+

50Ω 100W 40dB DC to 4000 MHz

The Big Deal

- Extremely wideband, DC to 4 GHz
- TNC / N-Type
- Excellent VSWR, 1.30:1 typ.



CASE STYLE: GH986-1

Product Overview

The BW-40TMNF100W+ precision fixed attenuators achieves extremely wide frequency range from DC up to 4 GHz. Bi-Directional, enabling high power to be applied to either of the ports. Excellent attenuation flatness, good VSWR (1.30:1 typ.) and rugged construction make these models ideal solutions for applications requiring precise attenuation across very wide frequency range.

Key Features

Feature	Advantages
Extremely wideband, DC to 4 GHz	Ideal for an exceptionally wide variety of lab and system applications.
Excellent attenuation accuracy, ± 2.0 dB typ. or better across full range	Provides precise, consistent attenuation across the entire frequency band, ideal for broadband and multi-band usage.
Good VSWR <ul style="list-style-type: none">• 1.24 @ 2 GHz typ.• 1.07 @ 4 GHz typ.	Efficient power utilization with minimal signal power reflected back to source.
100W power handling	Provides precise attenuation for a range of input power levels up to 100W
Passivated stainless steel connectors	Rugged construction withstands harsh environmental conditions for high reliability and long life of use.

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



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Connectors	Model
TNC Male - N-Type Female	BW-40TMNF100W+

+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

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

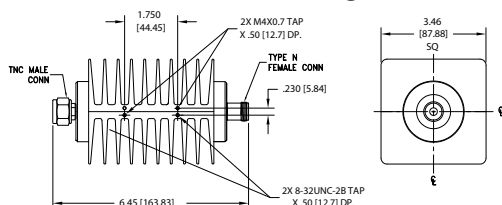
Features

- DC to 4000 MHz
- excellent VSWR, 1.30:1 typ.
- TNC-Male and N-Female connectors
- Bi-directional

Applications

- matching
- instrumentation
- test set-ups

Outline Drawing



Weight: 1100 grams.
Dimensions are in inches [mm]

Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min.	Typ.	Max.	Unit
Frequency Range ¹		DC	—	4000	MHz
Attenuation	DC - 4000		40		dB
Attenuation Accuracy	DC - 4000		±2		dB
VSWR	DC - 4000	—	—	1.45	:1
Input Power ²	DC - 4000	—	—	100	W

Temperature coefficient for attenuation .0004 dB/dB/°C typ.

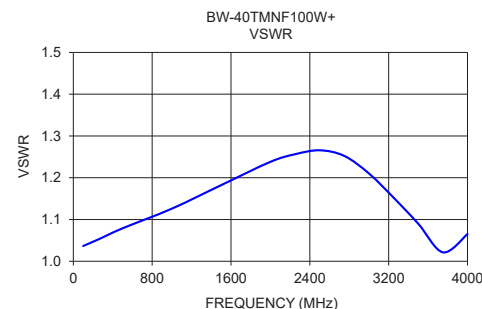
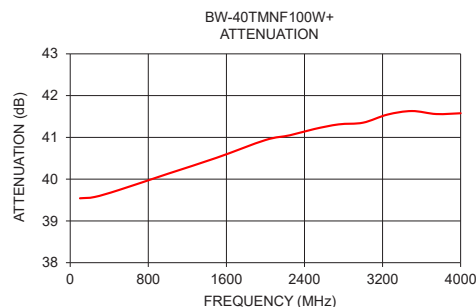
1. Useable to 5 GHz

2. Average power at 25°C ambient, derate linearly to 40W at 100°C, bi-directional.

Peak power 1kW max., 5µ sec pulse width, 100 Hz PRF 3.

Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100	39.54	1.04
250	39.57	1.05
500	39.74	1.08
1000	40.13	1.13
1500	40.51	1.18
2000	40.94	1.24
2250	41.05	1.26
2500	41.20	1.27
2750	41.31	1.25
3000	41.35	1.21
3250	41.54	1.15
3500	41.63	1.09
3750	41.56	1.02
4000	41.58	1.07



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