## Coaxial

# N-Type Fixed Attenuator BW-30N100W+

100W DC to 6000 MHz  $50\Omega$ 30dB

# The Big Deal

- · Wideband operation, DC to 6 GHz
- High power handling, 100W
- Good flatness, ±0.65 dB typ.



CASE STYLE: GH986

## **Product Overview**

Mini-Circuits' BW-30N100W+ is a 30 dB coaxial precision fixed attenuator providing high-power handling of up to 100W over the DC to 6 GHz frequency range. This model supports many high-power applications requiring precise attenuation over a broad frequency range including high-power measurement, matching, instrumentation, and more. It provides good VSWR (1.25 typ.), outstanding attenuation flatness (±0.65 dB) and excellent thermal stability from -55 to 100°C. It features rugged construction with N-male to N-female connectors and heat dissipation fins for efficient cooling.

## **Key Features**

Feature	Advantages				
Wideband operation, DC to 6 GHz	Wide frequency range makes the BW-30N100W+ suitable for a wide variety of applications.				
High power handling to 100W	Supports high-power test lab and system applications including high-power measurement, matching, instrumentation, and more.				
Good VSWR, 1.25:1 typ.	Well-matched for $50\Omega$ systems; reduces effects of phase variation.				
Good flatness, ±0.65 dB	Provides consistent attenuation performance across the entire frequency band.				
Excellent thermal stability, -55 to 100°C	Designed with heat dissipation fins for efficient cooling, the BW-20N100W+ provides reliable performance without the need for external cooling equipment.				
Compact size (3.46 x 3.46 x 6.36")	Outstanding performance capability and power handling with minimal space requirements.				

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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# N-Type Fixed Attenuator

100W 30dB DC to 6000 MHz

Operating Temperature -55°C to 100°C Storage Temperature -55°C to 125°C Peak Power\* 1K Watt

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

#### **Features**

- wideband, DC to 6000 MHz
- excellent VSWR. 1.25:1
- N-Male and N-Female connectors

### **Applications**

- matching
- instrumentation
- · test set-ups

# BW-30N100W+



CASE STYLE: GH986

Connectors Model N-Male-N-Fem BW-30N100W+

+RoHS Compliant

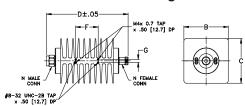
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min.	Тур.	Max.	Unit		
Frequency Range		DC	_	6000	MHz		
Attenuation	DC - 6000	28.5	30	31.5	dB		
VSWR	DC - 2500	_	1.15	1.35			
VSWR	2500 - 6000	_	1.30	1.45	:1		
Input Power (Male) <sup>1</sup>	DC - 6000	_	_	100	W		
Input Power (Female)	DC - 6000	_	_	20	W		

<sup>1.</sup> Derate linearly to 20 Watt at 100°C

#### **Outline Drawing**

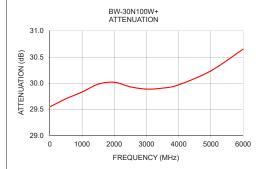


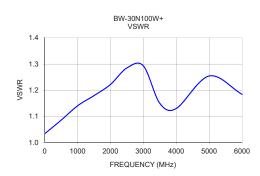
### Outline Dimensions (inch )

В С G wt. 3.46 3.46 6.36 1.75 .23 grams 87.88 161.54 44.45 5.84

## **Typical Performance Data**

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
0.3	29.55	1.03
500.0	29.70	1.09
1000.0	29.83	1.14
1500.0	29.98	1.18
2000.0	30.02	1.22
2500.0	29.93	1.29
3000.0	29.89	1.29
3500.0	29.91	1.15
4000.0	29.97	1.13
5000.0	30.24	1.25
6000.0	30.65	1.18





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<sup>\* 5</sup>µ second pulse 0.05% duty cycle.

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R416010000	R420003110	R411801000	R411815121	R413305000	R413801000	R414520000	R411808121	R412500124	R412414124
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