

# Precision Fixed Attenuator

BW-N3W5+

50Ω 5W 3dB DC to 18000 MHz

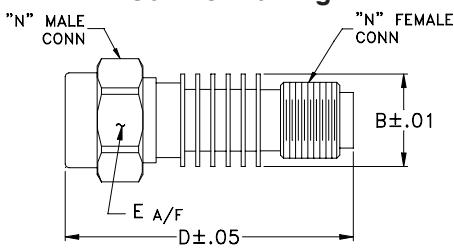
**Maximum Ratings**

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C\*\*

\*\*With mated connectors. Unmated, 85°C max.

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

**Outline Drawing****Outline Dimensions (inch/mm)**

B	D	E	wt
.61	1.90	.812	grams
15.49	48.26	20.62	49.7

**Features**

- DC to 18000 MHz
- precise attenuation
- excellent VSWR, 1.20 typ
- stainless steel N male and female connectors

CASE STYLE: DC736

Connectors Model  
N-Female N-Male BW-N3W5+**Applications**

- matching
- instrumentation
- test set-ups

**+RoHS Compliant**

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

**Electrical Specifications**

FREQ. RANGE (MHz)	ATTENUATION <sup>1</sup> (dB)		VSWR <sup>2</sup> (:1)		MAX. INPUT POWER <sup>3</sup> (W)
	f <sub>L</sub> -f <sub>U</sub>	Nom.	DC-4 GHz	4-8 GHz	
DC-18000	3	±0.40	1.20	1.25	1.30

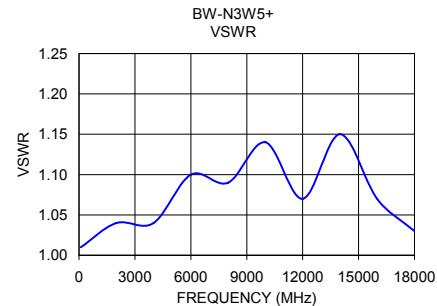
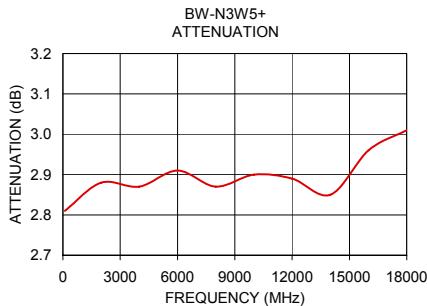
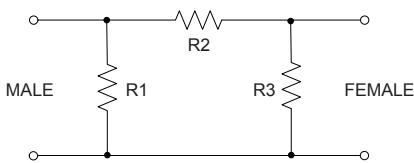
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.

2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.

3. Average power at 25°C ambient, derate linearly to 2W at 100°C. Peak Power 125W max. 5μsec. pulse width, 100 Hz PRF.

**Typical Performance Data**

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100	2.81	1.01
2000	2.88	1.04
4000	2.87	1.04
6000	2.91	1.10
8000	2.87	1.09
10000	2.90	1.14
12000	2.89	1.07
14000	2.85	1.15
16000	2.96	1.07
18000	3.01	1.03

**Electrical Schematic****Notes**

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
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