

# Precision Fixed Attenuator

## BW-N20W5+

50Ω 5W 20dB DC to 18000 MHz



Generic photo used for illustration purposes only

CASE STYLE: DC736

Connectors	Model
N-Female N-Male	BW-N20W5+

### 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.

### Features

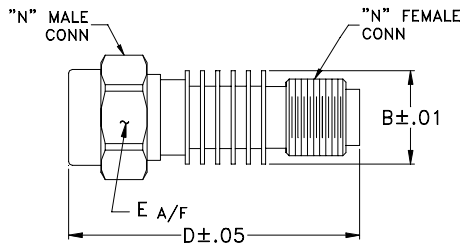
- DC to 18000 MHz
- precise attenuation
- excellent VSWR, 1.20 typ
- stainless steel N male and female connectors

### Applications

- matching
- instrumentation
- test set-ups

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

### Outline Drawing



### Outline Dimensions (inch/mm)

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

### Electrical Specifications

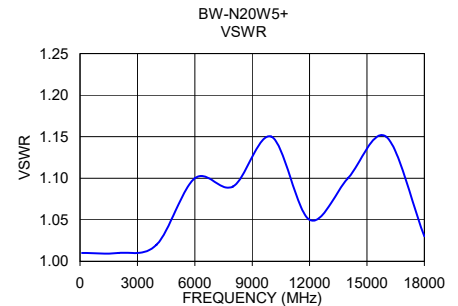
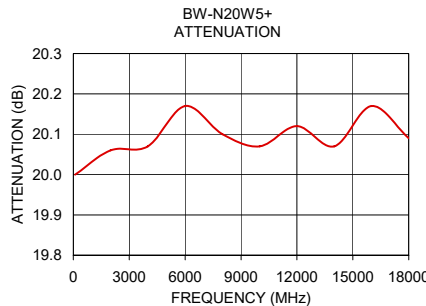
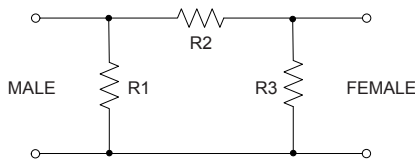
FREQ. RANGE (MHz)	ATTENUATION <sup>1</sup> (dB)		VSWR <sup>2</sup> (:1)			MAX. INPUT POWER <sup>3</sup> (W)
	Nom.	ACCURACY	DC-4 GHz Max.	4-8 GHz Max.	8-12.4 GHz Max.	
$f_L - f_U$ DC-18000	20	-0.5, +0.8	1.20	1.25	1.30	5

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	20.00	1.01
2000	20.06	1.01
4000	20.07	1.02
6000	20.17	1.10
8000	20.10	1.09
10000	20.07	1.15
12000	20.12	1.05
14000	20.07	1.10
16000	20.17	1.15
18000	20.09	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-Circuit's applicable established test performance criteria and measurement instructions.
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