



## COAXIAL

# Precision Fixed Attenuator **BW-N20W20+**

50Ω 20 W 20 dB DC to 18 GHz N-Female to N-Male

### FEATURES

- DC to 18 GHz
- Precision Attenuation
- Excellent VSWR, 1.30:1 Typ.
- Stainless Steel N-Male and Female Connectors



Generic photo used for illustration purposes only

### APPLICATIONS

- Impedance Matching
- Instrumentation
- Test Setups
- High Power Measurements

<b>Model No.</b>	BW-N20W20+
<b>Case Style</b>	DC1645
<b>Connectors</b>	N-Female to N-Male

#### +RoHS Compliant

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

### ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC		18	GHz
Attenuation	DC - 18		20		
	DC - 12.4	19.25		20.75	dB
	12.4 - 18	19.0		21.0	
VSWR	DC - 6			1.3	
	6 - 12.4			1.3	:1
	12.4 - 18			1.4	
Input Power <sup>1</sup>	DC - 18			20	W

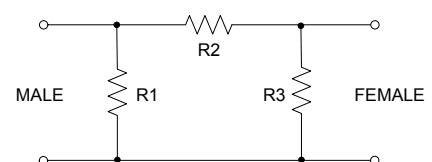
1. Max. Power at +25°C ambient, derate linearly to 4 W +100°C. Peak power 500 W max. 5 μsec. pulse width, 100 Hz PRF.

### ABSOLUTE MAXIMUM RATINGS<sup>2</sup>

Parameter	Ratings
Operating Temperature <sup>3</sup>	-55°C to +100°C
Storage Temperature	-55°C to +100°C

2. Permanent damage may occur if any of these limits are exceeded.  
3. +85°C with output into open or short.

### ELECTRICAL SCHEMATIC



REV. E  
ECO-024469  
BW-N20W20+  
MCL NY  
250210





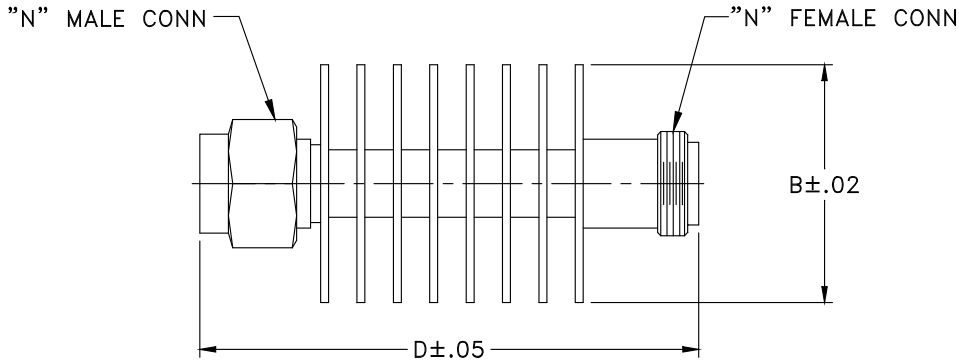
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Mini-Circuits

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## OUTLINE DRAWING



## OUTLINE DIMENSIONS (Inch/mm)

A	B	C	D	E	wt
--	1.50	--	3.04	--	grams
--	38.10	--	77.22	--	86.0



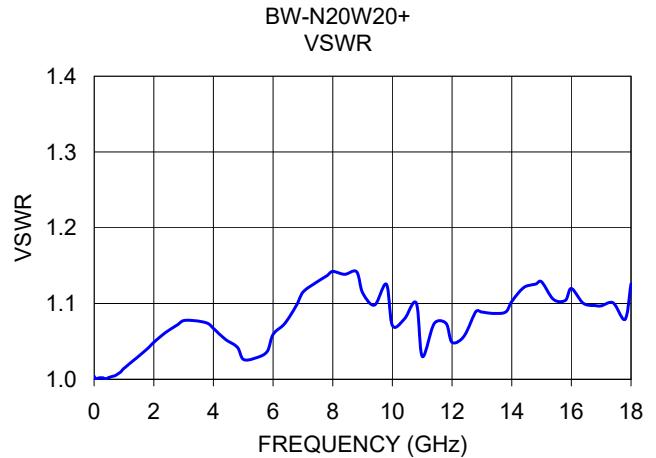
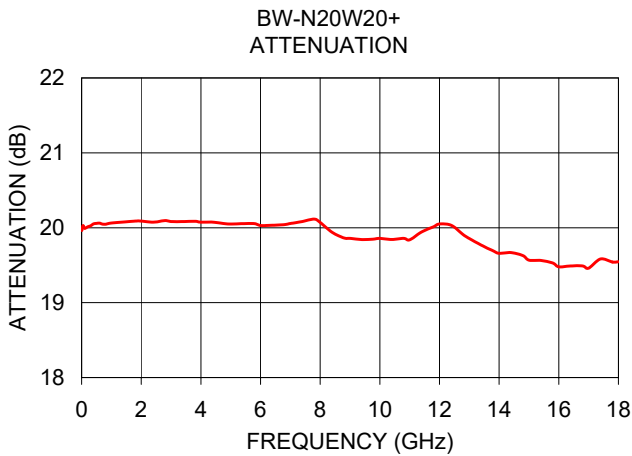
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### TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.01	19.96	1.00
2.0	20.09	1.05
4.0	20.07	1.07
6.0	20.03	1.06
8.0	20.07	1.14
10.0	19.86	1.07
12.4	20.03	1.06
14.0	19.66	1.10
16.0	19.48	1.12
18.0	19.55	1.13



#### 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-Circuits' 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/terms/viewterm.html](http://www.minicircuits.com/terms/viewterm.html)

