Precision Fixed Attenuator

BW-N3W20+

 50Ω 20W 3dB

DC to 18 GHz

Maximum Ratings

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

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

Features

• DC to 18 GHz

Applications

 instrumentation • test set-ups

matching

- precise attenuation
- excellent VSWR, 1.30:1 typ

· high power measurements

• stainless steel N male and female connectors

Generic photo used for illustration purposes only CASE STYLE: DC1645

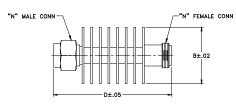
Model Connectors

N-Female N-Male BW-N3W20+

+RoHS Compliant

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

Outline Drawing



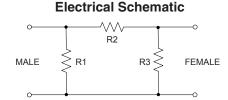
Outline Dimensions (inch)

wt	E	D	С	В	Α
grams		3.04		1.50	
86.0		77.22		38.10	

Electrical Specifications at 25°C

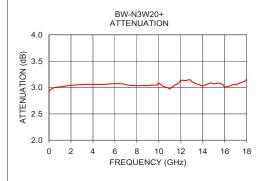
Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	_	18	GHz
Attenuation	DC - 18	_	3	_	
	DC - 12.4	2.5	_	3.5	dB
	12.4 - 18	2.25	_	3.75	
	DC - 6	_	_	1.3	
VSWR	6 - 12.4	_	_	1.3	:1
	12.4 - 18	_	_	1.4	
Input Power ¹	DC - 18	_	_	20	W

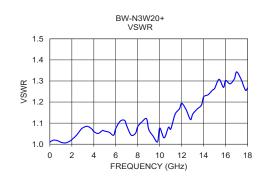
1. Max. power at 25°C ambient, derate linearly to 4W at 100°C. Peak power 500W max. 5µsec. pulse with, 100Hz PRF.



Typical Performance Data

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.01	2.92	1.01
2.0	3.04	1.02
4.0	3.06	1.06
6.0	3.07	1.07
8.0	3.03	1.08
10.0	3.08	1.08
12.4	3.13	1.16
14.0	3.03	1.22
16.0	3.01	1.30
18.0	3.16	1.27





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