Coaxial

Precision Fixed Attenuator

BW-N3W20+

50Ω 20W 3dB DC to 18 GHz

Generic photo used for illustration purposes only

CASE STYLE: DC1645

Connectors	Model
N-Female N-Male	BW-N3W20+

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
- precise attenuation
- excellent VSWR, 1.30:1 typ
- stainless steel N male and female connectors

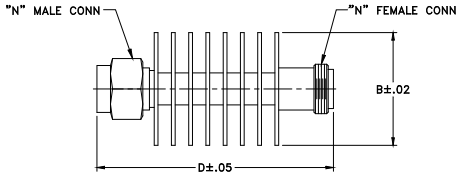
Applications

- matching
- instrumentation
- test set-ups
- high power measurements

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch / mm)

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

Electrical Specifications at 25°C

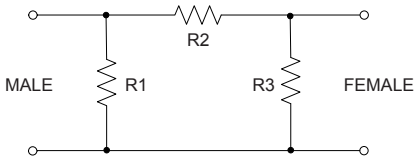
Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	18	GHz
Attenuation	DC - 18	—	3	—	dB
	DC - 12.4	2.5	—	3.5	
	12.4 - 18	2.25	—	3.75	
VSWR	DC - 6	—	—	1.3	:1
	6 - 12.4	—	—	1.3	
	12.4 - 18	—	—	1.4	
Input Power[1]	DC - 18	—	—	20	W

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

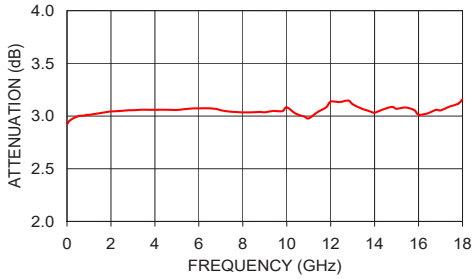
Typical Performance Data

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

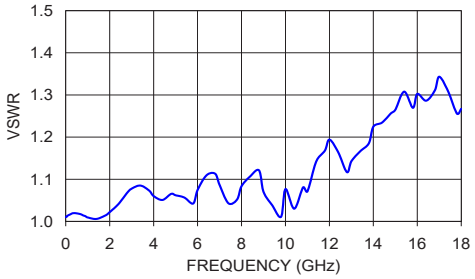
Electrical Schematic



BW-N3W20+
ATTENUATION



BW-N3W20+
VSWR



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-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