

# Precision Fixed Attenuator

50Ω 20W 10dB DC to 18 GHz

## BW-N10W20+

### 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 typ
- stainless steel N male and female connectors

### Applications

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



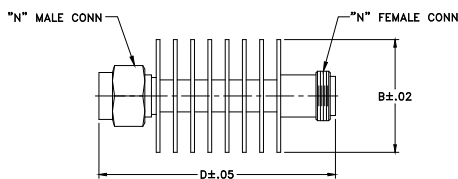
Generic photo used for illustration purposes only  
CASE STYLE: DC1645

Connectors Model  
N-Female N-Male BW-N10W20+

### +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

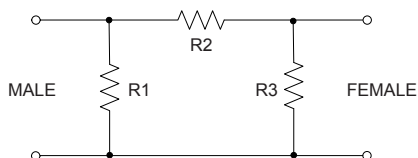
Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	18	GHz
Attenuation	DC - 18	—	10	—	dB
	DC - 12.4	9.25	—	10.75	
	12.4 - 18	9.0	—	11.0	
VSWR	DC - 6	—	—	1.3	:1
	6 - 12.4	—	—	1.3	
	12.4 - 18	—	—	1.4	
Input Power <sup>1</sup>	DC - 18	—	—	20	W

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

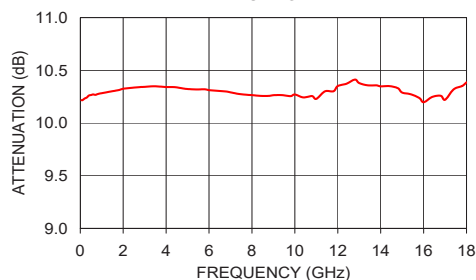
### Typical Performance Data

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.05	10.22	1.00
2.0	10.33	1.04
4.0	10.34	1.09
6.0	10.31	1.05
8.0	10.27	1.11
10.0	10.27	1.10
12.4	10.37	1.25
14.0	10.35	1.25
16.0	10.20	1.08
18.0	10.39	1.12

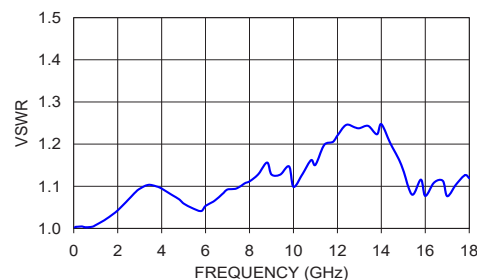
### Electrical Schematic



BW-N10W20+  
ATTENUATION



BW-N10W20+  
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.

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