



Mini-Circuits

COAXIAL

Precision Fixed Attenuator **BW-N10W20+**

50Ω 20 W 10 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

APPLICATIONS

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



Generic photo used for illustration purposes only

Model No.	BW-N10W20+
Case Style	DC1645
Connectors	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		10		
	DC - 12.4	9.25		10.75	dB
	12.4 - 18	9.0		11.0	
VSWR	DC - 6			1.3	
	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 4 W +100°C. Peak power 500 W max. 5 μsec. pulse width, 100 Hz PRF.

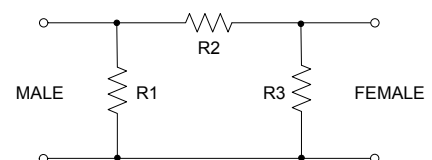
ABSOLUTE MAXIMUM RATINGS²

Parameter	Ratings
Operating Temperature ³	-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. D
ECO-024469
BW-N10W20+
MCL NY
250210





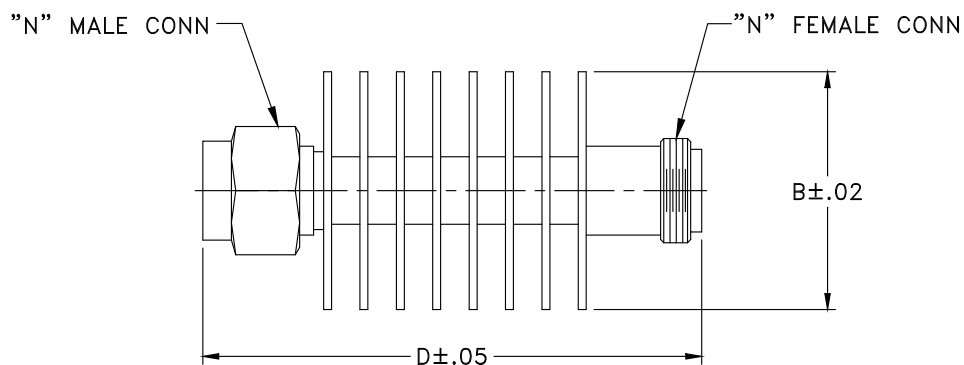
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OUTLINE DRAWING



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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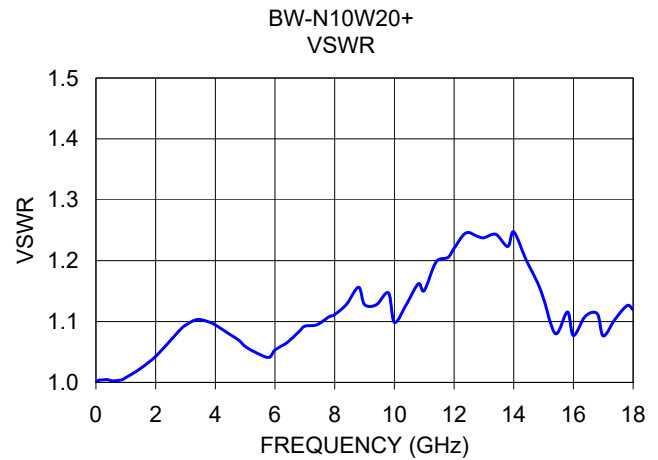
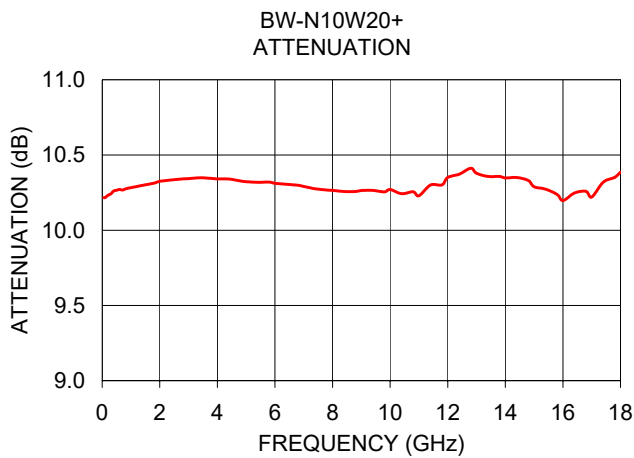
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TYPICAL PERFORMANCE DATA AND CHARTS

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



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-Circuits' applicable established test performance criteria and measurement instructions.
- 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

