COAXIAL

Precision Fixed Attenuator BW-N1W5+

50Ω 5 W 1 dB DC to 18 GHz N-Type Female to N-Type Male

FEATURES

- DC to 18 GHz
- Precision Attenuation
- Excellent VSWR, 1.20 typ.
- Stainless Steel N-Type Male and Female Connectors

Generic photo used for illustration purposes only

Model No.	BW-N1W5+
Case Style	DC736
Connectors	N-Type Female to N-Type Male

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

APPLICATIONS

- Impedance Matching
- Instrumentation
- Test setups

ELECTRICAL SPECIFICATIONS AT +25 °C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Unit
Frequency Range	-	DC	-	18	GHz
Attenuation, Nominal	-	-	1	-	dB
Attenuation, Accuracy[1]	DC–18	-	±0.40	-	dB
VSWR[2]	DC–4	-	-	1.20	:1
	4–8	-	-	1.25	
	8–12.4	-	-	1.30	
Input Power[3]	-	-	-	5.0	W

1. At +25 °C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004 dB/dB/°C typ.
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
3. Average power at +25 °C ambient, derate linearly to 2 W at +100 °C. Peak Power 125 W max. 5 µsec. pulse width, 100 Hz PRF.

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-55 °C to +100 °C
Storage Temperature[4]	-55 °C to +100 °C

4. With mated connectors. Unmated, +85°C max.
Permanent damage may occur if any of these limits are exceeded.

REV. E
ECO-024310
BW-N1W5+
MCL NY
250124

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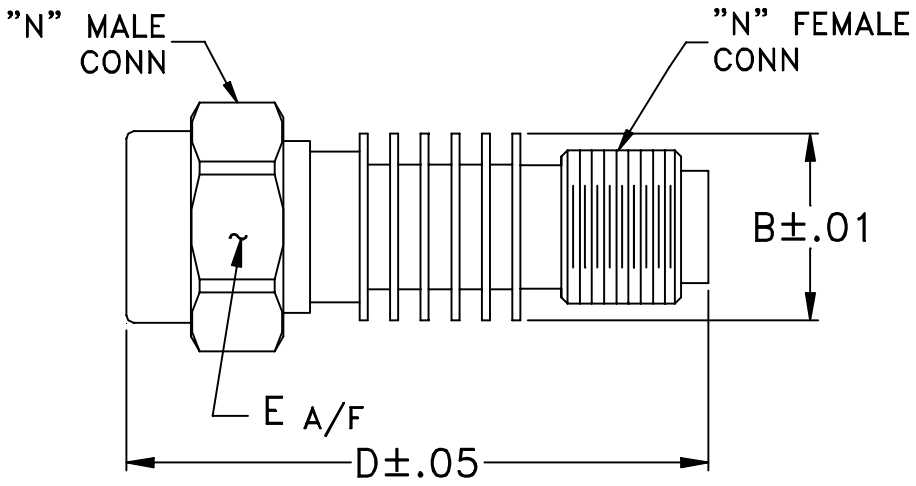
OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch / mm)

B	D	E	wt
.61	1.90	.812	grams
15.49	48.26	20.62	49.7

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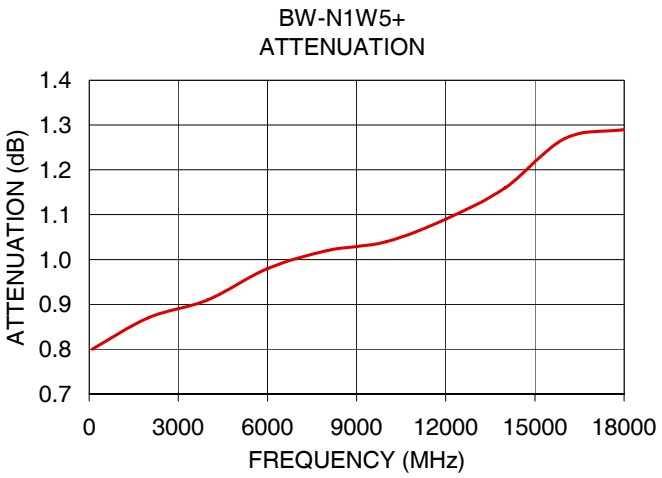
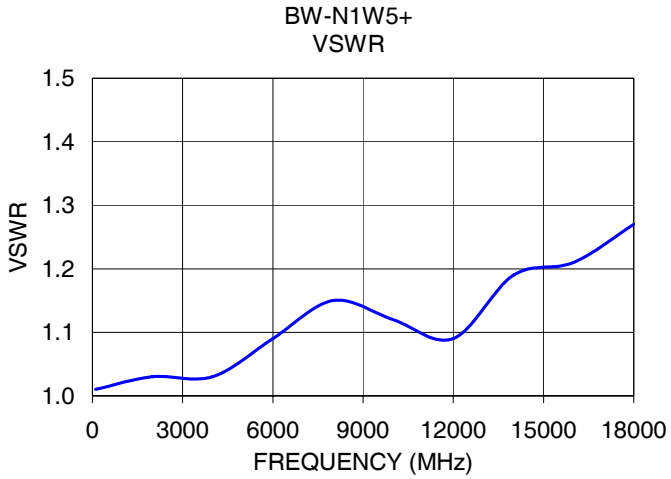
TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100	0.80	1.01
2000	0.87	1.03
4000	0.91	1.03
6000	0.98	1.09
8000	1.02	1.15
10000	1.04	1.12
12000	1.09	1.09
14000	1.16	1.19
16000	1.27	1.21
18000	1.29	1.27





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