COAXIAL

Fixed Attenuator

BW-30N100W+

50Ω 100 W 30 dB DC to 6 GHz N-Male to N-Female

THE BIG DEAL

- DC to 6 GHz
- High Power Handling, 100 W
- Excellent VSWR, 1.25:1 Typ.
- N-Male and N-Female Connectors

Generic photo used for illustration purposes only

APPLICATIONS

- Impedance Matching
- Instrumentation
- Test Setups

Model No.	BW-30N100W+
Case Style	GH986
Connectors	N-Male to N-Female

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

PRODUCT OVERVIEW

Mini-Circuits' BW-30N100W+ is a 30 dB coaxial precision fixed attenuator providing high power handling of up to 100 W over the DC to 6 GHz frequency range. This model supports many of high-power applications requiring precise attenuation over a broad frequency range including high-power measurement, matching, instrumentation, and more. It provides good VSWR (1.25 typ.), outstanding attenuation flatness (±0.65 dB) and excellent thermal stability from -55 to +100˚C. It features rugged construction with N-male to N-female connectors and heat dissipation fins for efficient cooling.

KEY FEATURES

Feature	Advantages
Wideband Operation, DC to 6 GHz	Wide frequency range makes the BW-30N100W+ suitable for a wide variety of applications.
High Power Handling to 100 W	Supports high-power test lab and system applications including high-power measurement, matching, instrumentation, and more.
Good VSWR, 1.25:1 Typ.	Well-matched for 50Ω systems; reduces effects of phase variation.
Good Flatness, ±0.65 dB	Provides consistent attenuation performance across the entire frequency band.
Rugged Construction	Excellent durability for a long lifetime of use.
Excellent Thermal Stability, -55 to +100˚C	Designed with heat dissipation fins for efficient cooling, the BW-30N100W+ provides reliable performance without the need for external cooling equipment.
Compact Size (3.46 x 3.46 x 6.36")	Outstanding performance capability and power handling with minimal space requirements.

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ECO-024663
BW-30N100W+
MCL NY
250225

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ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC		6	GHz
Attenuation	DC - 6	28.5	30	31.5	dB
VSWR	DC - 2.5 2.5 - 6		1.15 1.30	1.35 1.45	:1
Input Power (Male)[1]	DC - 6			100	W
Input Power (Female)	DC - 6			20	W

1. Derate linearly to 20 W at +100°C.

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +125°C
Peak Power[2]	1K Watt

Permanent damage may occur if any of these limits are exceeded.
2. 5 μ second pulse 0.05% duty cycle.

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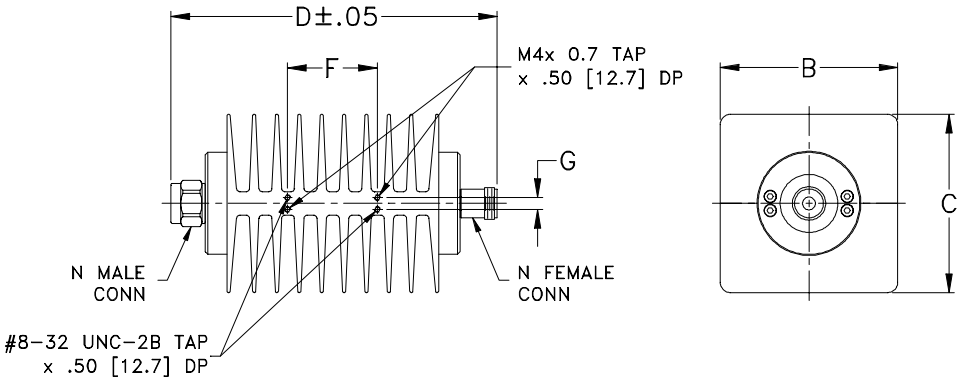
OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch / mm)

B	C	D	E	F	G	wt.
3.46	3.46	6.36	--	1.75	.23	grams
87.88	87.88	161.54	--	44.45	5.84	1100.0

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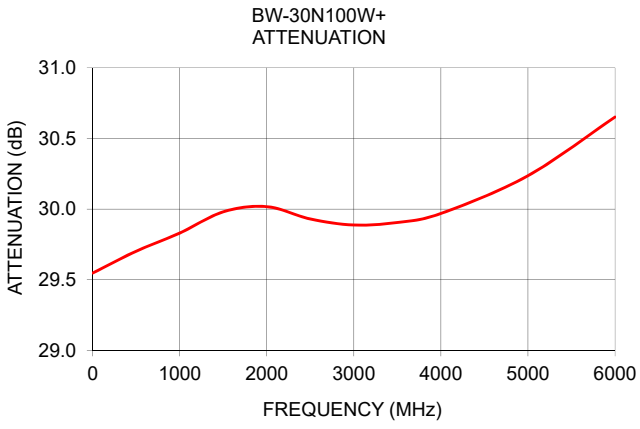
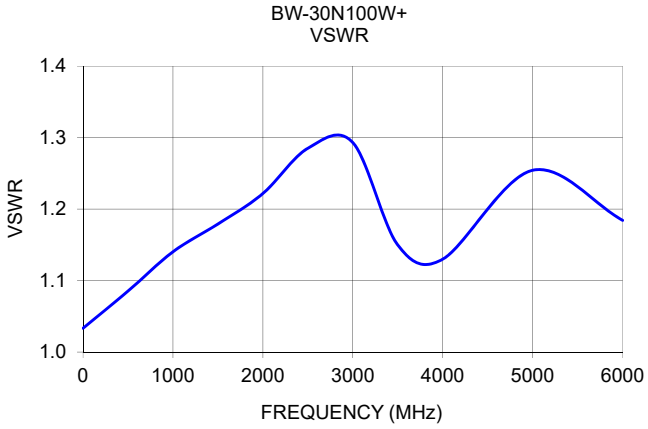
TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
0.3	29.55	1.03
500.0	29.70	1.09
1000.0	29.83	1.14
1500.0	29.98	1.18
2000.0	30.02	1.22
2500.0	29.93	1.29
3000.0	29.89	1.29
3500.0	29.91	1.15
4000.0	29.97	1.13
5000.0	30.24	1.25
6000.0	30.65	1.18





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