



Mini-Circuits®

COAXIAL

Fixed Attenuator

BW-40N100W+

50Ω 100 W 40 dB DC to 4 GHz N-Male to N-Female

FEATURES

- DC to 4 GHz
- High Power Handling, 100 W
- Excellent VSWR, 1.20:1 Typ.
- N-Male and N-Female Connectors

APPLICATIONS

- Impedance Matching
- Instrumentation
- Test Setups



Generic photo used for illustration purposes only

Model No.	BW-40N100W+
Case Style	GH986
Connectors	N-Male to N-Female

+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 ¹		DC		4	GHz
Attenuation, Nominal ²	DC - 4		40		dB
Attenuation, Accuracy	DC - 4		±1.6		dB
VSWR	DC - 0.5			1.15	:1
	0.5 - 2			1.35	
	2 - 4			1.40	
Input Power ³	DC - 4			100	W

1. Useable to 5 GHz.

2. Temperature coefficient for attenuation .0004 dB/dB/°C typ.

3. Average power at 25°C ambient, derate linearly to 50 W at +100°C, bi-directional.
Peak power 1 kW 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

Permanent damage may occur if any of these limits are exceeded.

4. With mated connectors. Unmated, +85°C max.





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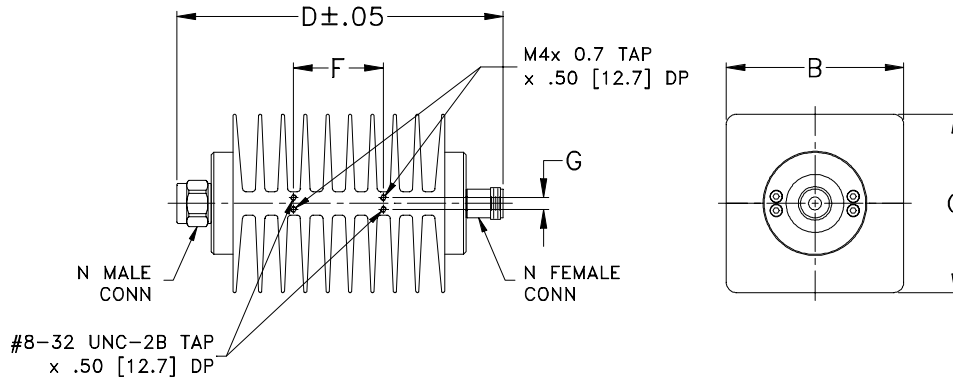
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OUTLINE DRAWING



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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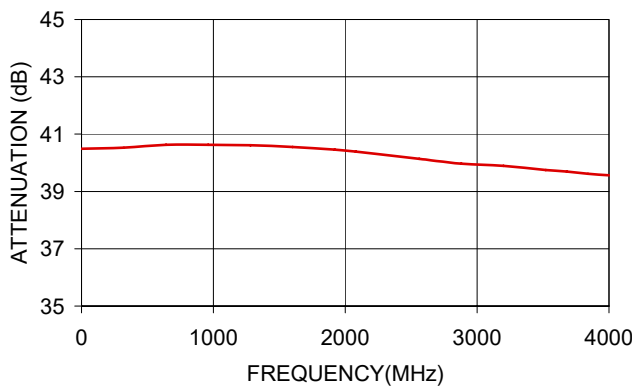
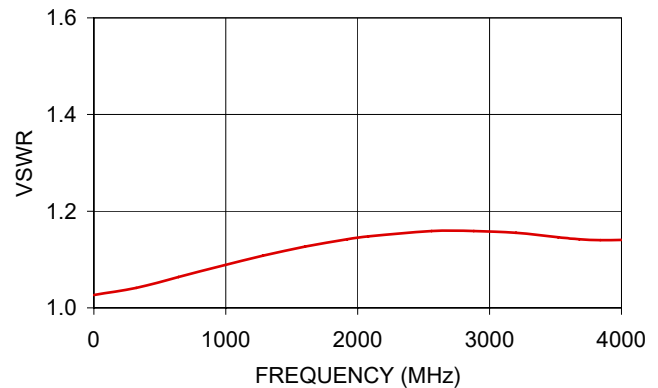
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TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
1.00	40.49	1.03
320.92	40.53	1.04
640.84	40.63	1.06
960.76	40.63	1.09
1280.68	40.61	1.11
1600.60	40.55	1.13
1920.52	40.46	1.14
2080.48	40.39	1.15
2560.36	40.14	1.16
2880.28	39.97	1.16
3200.20	39.89	1.16
3520.12	39.75	1.15
3680.08	39.69	1.14
3840.04	39.62	1.14
4000.00	39.56	1.14

BW-40N100W+
ATTENUATIONBW-40N100W+
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-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

