Precision Fixed Attenuator

BW-N10W50+

 50Ω 10 dB DC to 18 GHz



The Big Deal

- High Power Handling, 50W
- Excellent VSWR, 1.30 typ.
- Wide Frequency Range, DC to 18 GHz

Product Overview

The BW-N10W50+ 10 dB precision fixed attenuator achieves great flatness versus frequency from DC to 18 GHz and handles high power signals up to 50W. High power handling, excellent VSWR, and precise performance make the BW-N10W50+ ideal for applications including high power measurement, improving matching, test setups, and other functions demanding accurate attenuation and high power capability.

Key Features

Feature	Advantages
Wide Frequency Range	DC to 18 GHz frequency range gives the BW-N10W50+ attenuator versatile application functionality.
Excellent VSWR, 1.30 typ.	Well-matched for 50Ω systems; reduces effects of phase variation.
Flat attenuation	Accurate performance within ±0.5 dB over the full frequency range.
Rugged Construction	Excellent durability for a long lifetime of use.
Heat Dissipation Fins	Designed to dissipate heat efficiently, the BW-N10W50+ requires no external cooling equipment.
Compact Size (2.65" x 2.65" x 4.5")	Outstanding performance capability and power handling without prohibitive space constraints.

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.

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.ninicircuits.com/MCLStore/terms.jsp

Precision Fixed Attenuator

BW-N10W50+

 50Ω

50W

10 dB

DC to 18 GHz

Maximum Ratings

Operating Temperature	-55°C to 100°C**
Storage Temperature	-55°C to 100°C

**85°C with output into open or short.

Coaxial Connections

IN (50W)	N-Male
OUT	N-Female

unidirectional

- **Applications** matching
- instrumentation
- test set-ups
- · high power measurements

Features

- DC to 18 GHz
- precise attenuation
- excellent VSWR, 1.30 typ
- · passivated stainless steel N-type connectors

Connectors

N-type

Model

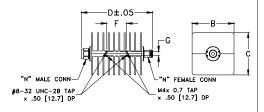
BW-N10W50+

CASE STYLE: GH1788

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing



Outline Dimensions (inch)

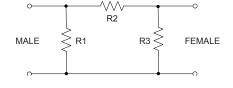
В	С	D	E	F	G	wt.
2.65	2.65	4.50		1.25	.25	grams
67.31	67.31	114.30		31.75	6.35	720.0

Electrical Specifications at 25°C

Parameter		Condition (GHz)	Min.	Тур.	Max.	Unit	
Frequency Range			DC	_	18	GHz	
Attenuation		DC - 18	9.0	10.0	11.0	dB	
VSWR	IN	DC - 18	_	_	1.45	:1	
VSWN	OUT	DC - 18	_	_	1.5		
Input Power ¹		DC - 18	_	_	50	W	

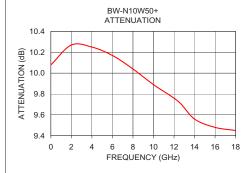
^{1.} Max. power at 25°C ambient, derate linearly to 20W at 100°C. Peak power 500W max. 5µsec. pulse width, 100Hz PRF, input N-Male. 5W max. at N-Female

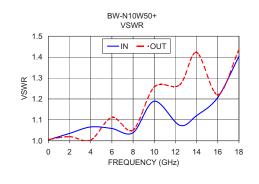
Simplified Electrical Schematic



Typical Performance Data

Frequency (GHz)	Attenuation (dB)	VSWR (:1)	
		IN	OUT
0.01	10.08	1.00	1.01
2.0	10.27	1.04	1.02
4.0	10.25	1.07	1.00
6.0	10.17	1.06	1.11
8.0	10.04	1.04	1.05
10.0	9.89	1.19	1.26
12.4	9.73	1.07	1.27
14.0	9.56	1.12	1.42
16.0	9.48	1.21	1.22
18.0	9.45	1.40	1.44





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 ins C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively: "Standard Terms"). Durch asset 15:11-12. Ferrormance and updany authorities and contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. The parts covered by this specification document are subject to Mini-Circuit's 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/MCLStore/terms.jsp

Permanent damage may occur if any of these limits are exceeded

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Attenuators - Interconnects category:

Click to view products by Mini-Circuits manufacturer:

Other Similar products are found below:

R411803119	R413806115	R413808000	R413810115	R413850115	R414510000	R414701000	R415303000	BNC-13 R41	11800121
R411801121	R412412124	R412450000	R413800000	R413805000	R413830000	R413840115	R414730000	R415420000	R415703000
R416010000	R420003110	R411801000	R411815121	R413305000	R413801000	R414520000	R411808121	R412500124	R412414124
R412501124	HMC-C584	R413802000	R412400124	R411700124	R417310130	R411801119	R412419124	R411703124	R412401124
R443131000	R417130110	R414700000	R414505000	R411802119	R417720128	R420706110	R413811000	R413803115	R414501000