Coaxial Precision Fixed Attenuator BW-SXXW2+Series

50Ω 2W DC to 18000 MHz

The Big Deal

- Wideband, DC to 18 GHz
- Outstanding attenuation flatness
- Excellent VSWR, 1.11 typ up to 18 GHz



Product Overview

The BW-SXXW2+ series of precision fixed attenuators achieves wide frequency range with excellent flatness of attenuation. Available in a variety of attention values for different requirements, these units support a broad range of system and testing applications. Precise performance, excellent VSWR (1.11:1 typ.) and passivated stainless steel construction make these models ideal solutions for systems requiring precise attenuation across very wide frequency range.

Key Features

Feature	Advantages
Wideband, DC to 18 GHz	Ideal for an exceptionally wide variety of applications.
Excellent VSWR, 1.11 typ. up to 18 GHz	Efficient power utilization with low power reflected back to source.
Outstanding attenuation flatness	Provides precise, consistent attenuation across the entire frequency band, ideal for broadband and multi-band usage.
Passivated stainless steel connectors	Rugged construction withstands harsh environmental conditions for high reliability and long life of use.

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Coaxial Precision Fixed Attenuator

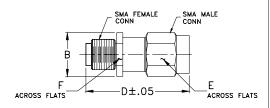
50Ω 2W 0.5dB

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Input Power ¹	2W max

Permanent damage may occur if any of these limits are exceeded. 1. Derates linearly to 10% at 125°C

Outline Drawing



Outline Dimensions (inch)

wt	F	Е	D	В
grams	.312	.312	.85	.36
4.3	7.92	7.92	21.59	9.14

Electrical Schematic

 $R3 \geq$

-0

FEMALE

0

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R2

 $\leq R1$

C

MALE

0

DC to 18000 MHz

Features

- DC to 18 GHz
- precise attenuation
- excellent VSWR, 1.11:1 typ. up to 18 GHz
- passivated stainless steel connectors

Applications

- test instrument
- lab use





Generic photo used for illustration purposes only CASE STYLE: FF658 Connectors Model SMA Female-SMA Male BW-S0.5W2+

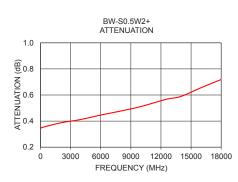
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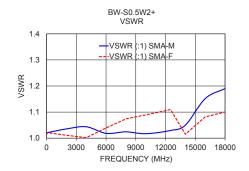
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	_	18	MHz
	10-6000	0.2	0.4	0.8	
Attenuation	6000-12400	0.2	0.5	0.8	dB
	12400-18000	0.2	0.6	0.8	
	10-6000	_	1.01	1.15	
Input VSWR	6000-12400	_	1.09	1.25	:1
	12400-18000	_	1.11	1.35	
	10-6000	_	1.02	1.15	
Output VSWR	6000-12400	-	1.07	1.25	:1
	12400-18000		1.12	1.35	

Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)		
		SMA-M	SMA-F	
10	0.34	1.02	1.02	
100	0.35	1.02	1.02	
2000	0.39	1.04	1.01	
4000	0.41	1.04	1.00	
6000	0.45	1.02	1.04	
8000	0.48	1.02	1.07	
10000	0.51	1.02	1.09	
12500	0.57	1.03	1.11	
14000	0.59	1.05	1.02	
16000	0.66	1.15	1.08	
18000	0.72	1.19	1.10	





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