

Precision Fixed Attenuator **BW-S9W2+**

Mini-Circuits

 50Ω 2 W 9 dB DC to 18 GHz SMA-Female to SMA-Male

FEATURES

- DC to 18 GHz
- Precision Attenuation
- Excellent VSWR, 1.20 Typ.
- Stainless Steel SMA Male and Female Connectors

APPLICATIONS

- Impedance Matching
- Instrumentation
- Test Setups



Generic photo used for illustration purposes only

Model No.	BW-S9W2+	
Case Style	FF658	
Connectors	SMA-Female to SMA-Male	

+RoHS Compliant The +Suffx identifies RoHS Compliance. See our website for methodologies and qualific

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		18	GHz
Attenuation, Nominal			9		dB
Attenuation, Accuracy ¹	DC - 18		-0.4, +0.8		dB
	DC - 4			1.20	
VSWR ²	4 - 8			1.25	:1
	8 - 12.4			1.30	
Input Power ³				2.0	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 0.5 W at +100°C. Peak Power 125 W max. 5 µsec. pulse width, 100 Hz PRF.

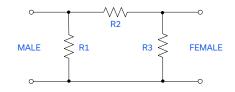
ABSOLUTE MAXIMUM RATINGS

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.

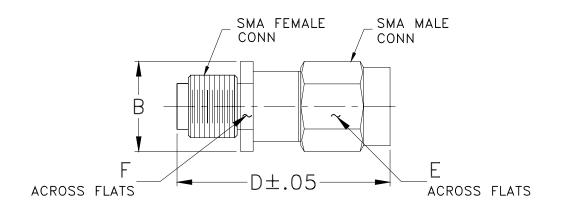
ELECTRICAL SCHEMATIC



REV. F ECO-024322 BW-S9W2+ MCL NY 250127



OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch)

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



COAXIAL

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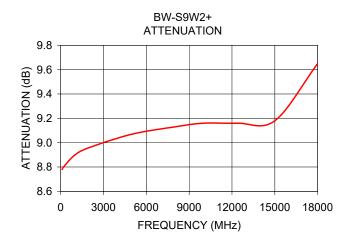
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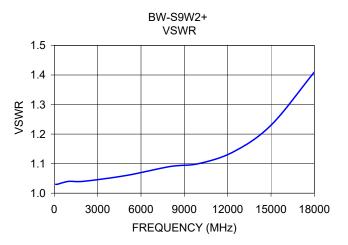
500

2 W 9 dB DC to 18 GHz SMA-Female to SMA-Male

TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	8.78	1.03
199.90	8.80	1.03
1000.00	8.90	1.04
1999.90	8.96	1.04
5000.00	9.07	1.06
7999.90	9.13	1.09
9999.90	9.16	1.10
12400.10	9.16	1.14
15000.00	9.18	1.23
18000.00	9.65	1.41





NOTES

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. Α.

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