

COAXIAL

Precision Fixed Attenuator **BW-S7W2+**

2 W 7 dB DC to 18 GHz SMA-Female to SMA-Male 500

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-S7W2+	
Case Style	FF658	
Connectors	SMA-Female to SMA-Male	

+RoHS Compliant The +Suffix identifies RoHS Compliance. 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			7		dB
Attenuation, Accuracy ¹	DC - 18		-0.4, +0.9		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.

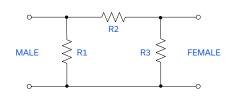
ABSOLUTE MAXIMUM RATINGS

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-S7W2+ MCL NY 250127



^{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.

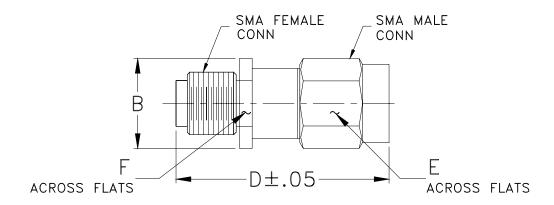


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50Ω 2 W 7 dB DC to 18 GHz SMA-Female to SMA-Male

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch)

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



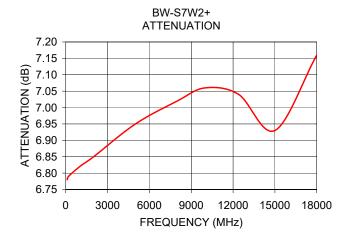
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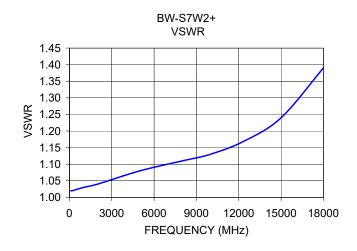
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500 2 W 7 dB DC to 18 GHz SMA-Female to SMA-Male

TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	6.78	1.02
199.90	6.79	1.02
1000.00	6.82	1.03
1999.90	6.85	1.04
5000.00	6.95	1.08
7999.90	7.02	1.11
9999.90	7.06	1.13
12400.10	7.04	1.17
15000.00	6.93	1.24
18000.00	7.16	1.39





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.

Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.

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