

COAXIAL

Precision Fixed Attenuator **BW-S7W5+**

5 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-S7W5+	
Case Style	DC737	
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				5.0	W

^{1.} At +25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004 dB/dB/°C typ.

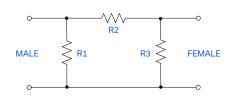
ABSOLUTE MAXIMUM RATINGS

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-024323 BW-S7W5+ 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 2 W at +100°C. Peak Power 125 W max. 5 usec. pulse width, 100 Hz PRF.

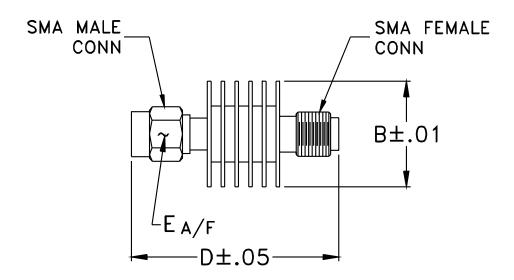


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50Ω 5 W 7 dB DC to 18 GHz SMA-Female to SMA-Male

OUTLINE DRAWING



OUTLINE DIMENSIONS $\binom{lnch}{mm}$

В D Ε wt 1.20 .61 .312 grams 15.49 30.48 7.92 9.1



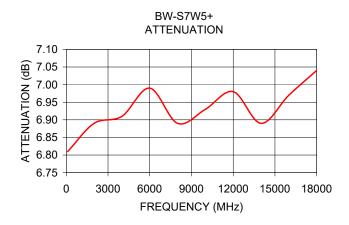
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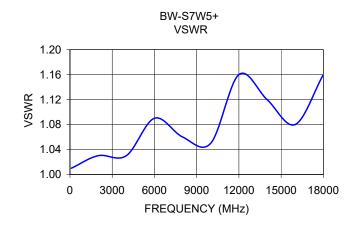
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500 5 W 7 dB DC to 18 GHz SMA-Female to SMA-Male

TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100	6.81	1.01
2000	6.89	1.03
4000	6.91	1.03
6000	6.99	1.09
8000	6.89	1.06
10000	6.93	1.05
12000	6.98	1.16
14000	6.89	1.12
16000	6.97	1.08
18000	7.04	1.16





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

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