

COAXIAL

Precision Fixed Attenuator **BW-S3W20+**

20 W 3 dB DC to 18 GHz SMA-Female to SMA-Male 500

FEATURES

- DC to 18 GHz
- Precision Attenuation
- Excellent VSWR, 1.30:1 Typ.
- Stainless Steel SMA-Male and Female Connectors

APPLICATIONS

- Impedance Matching
- Instrumentation
- Test Setups
- High Power Measurements



Generic photo used for illustration purposes only

Model No.	BW-S3W20+		
Case Style	DC1660		
Connectors	SMA-Female to SMA-Male		

+RoHS Compliant

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

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		18	GHz
	DC - 18		3		
Attenuation	DC - 12.4	2.5		3.5	dB
	12.4 - 18	2.25		3.75	
	DC - 6			1.3	
VSWR	6 - 12.4			1.3	:1
	12.4 - 18			1.4	
Input Power ¹	DC - 18			20	W

^{1.} Max. Power at +25°C ambient, derate linearly to 4 W +100°C. Peak power 500 W max. 5 µsec. pulse with, 100 Hz PRF.

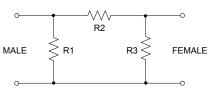
ABSOLUTE MAXIMUM RATINGS²

Parameter	Ratings
Operating Temperature ³	-55°C to +100°C
Storage Temperature	-55°C to +100°C

^{2.} Permanent damage may occur if any of these limits are exceeded.

3. +85°C with output into open or short.

ELECTRICAL SCHEMATIC



REV. C ECO-024518 BW-S3W20+ MCL NY 250213



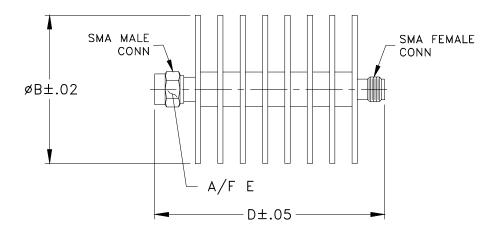


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50Ω 20 W 3 dB DC to 18 GHz SMA-Female to SMA-Male

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch)

A B C D E wt -- 1.50 -- 2.33 .312 grams -- 38.10 -- 59.18 7.92 49.2



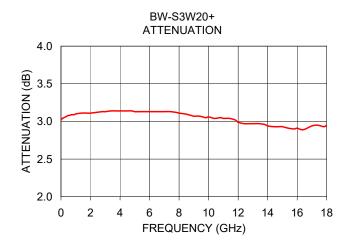
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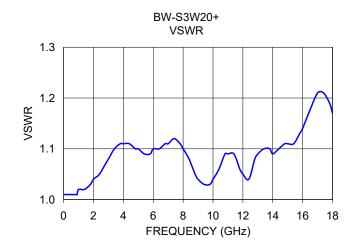
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TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.01	3.02	1.01
2.0	3.11	1.04
4.0	3.14	1.11
6.0	3.13	1.10
8.0	3.11	1.10
10.0	3.06	1.04
12.4	2.97	1.04
14.0	2.94	1.09
16.0	2.91	1.14
18.0	2.95	1.17





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-Circuits' applicable established test performance criteria and measurement instructions.

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