Precision Fixed Attenuator

BW-S30W20+

 50Ω 20W 30dB

DC to 18 GHz

Maximum Ratings

Operating Temperature	-55°C to 100°C**
Storage Temperature	-55°C to 100°C

**85°C with output into open or short.

Permanent damage may occur if any of these limits are exceeded

Features

• DC to 18 GHz

Applications

instrumentation

matching

• test set-ups

- precise attenuation
- excellent VSWR, 1.30:1 typ

· high power measurements

• stainless steel SMA male and female connectors

Generic photo used for illustration purposes only

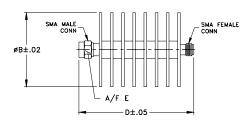
CASE STYLE: DC1660

Connectors Model SMA-F SMA-M BW-S30W20+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing



Outline Dimensions (inch)

wt	E	D	С	В	Α
grams	.312	2.33		1.50	
49.2	7.92	59.18		38.10	

Electrical Specifications at 25°C

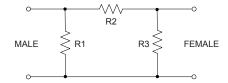
Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	_	18	GHz
Attenuation	DC - 18	_	30	_	
	DC- 12.4	29.0	_	31.0	dB
	12.4 - 18	28.5	_	31.5	
	DC - 6	_	_	1.30	
VSWR	6 - 12.4	_	_	1.3	:1
	12.4 - 18	_	_	1.4	
Input Power ¹		_	_	20	W

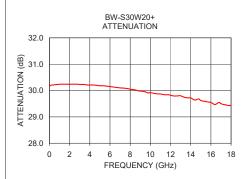
1, Max, power at 25°C ambient, derate linearly to 4W at 100°C. Peak power 500W max, 5usec, pulse width, 100Hz PRE

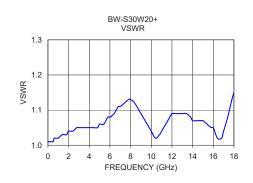
Typical Performance Data

Frequency	Attenuation	VSWR
(GHz)	(dB)	(:1)
0.01	30.18	1.01
2.0	30.24	1.04
4.0	30.21	1.05
6.0	30.15	1.08
8.0	30.05	1.13
10.0	29.92	1.04
12.4	29.79	1.09
14.0	29.72	1.07
16.0	29.55	1.05
18.0	29.45	

Electrical Schematic







- 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-Circuit's applicable established test performance criteria and measurement ins C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively "Standard Terms"). Purphasers of this part Ferrormance and updany attributes and contained in this specification document are based on Mini-Circuit's 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 benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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