Precision Fixed Attenuator

BW-S40W20+

 50Ω 20W 40dB

DC to 18 GHz

Maximum Ratings

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

**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, 1.25:1 typ

· high power measurements

• stainless steel SMA male and female connectors

Generic photo used for illustration purposes only

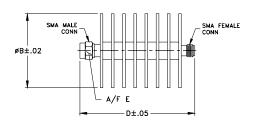
CASE STYLE: DC1660

Connectors Model SMA-F SMA-M BW-S40W20+

+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

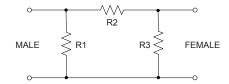
	i e				
Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	_	18	GHz
	DC - 18	_	40	_	
Attenuation	DC - 12.4	38.5	_	41.0	dB
	12.4 - 18	38.0	_	41.5	
VSWR	DC - 6	_	1.08	1.3	:1
VOVA	6 - 12.4	_	1.15	1.3	.1
	12.4 -18	_	1.25	1.4	
Input Power ¹		_	_	20	W

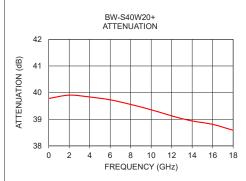
1, Max, power at 25°C ambient, derate linearly to 4W at 100°C. Peak power 500W max, 5usec, pulse width, 100Hz PRE

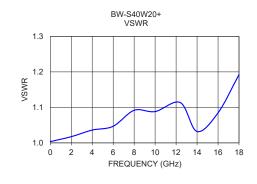
Typical Performance Data

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.01	39.78	1.00
2	39.91	1.02
4	39.84	1.04
6	39.73	1.05
8	39.56	1.09
10	39.36	1.09
12	39.08	1.11
14	38.94	1.03
16	38.81	1.08
18	38.59	1.19

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 Topod"). Durch teams at the conditions are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively: "Standard Topod"). Durch teams at the conditions are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively: "Standard Topod"). Durch teams at the collectively: "Standard Topod" (collectively: "Standard Topod"). Durch teams at the collectively: "Standard Topod" (collectively: "Standard Topod"). Durch teams at the collectively: "Standard Topod" (collectively: "Standard Topod"). Durch teams at the collectively: "Standard Topod" (collectively: "Standard Topod"). Durch teams at the collectively: "Standard Topod" (collectively: "Standard Topod").
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