Coaxial

Precision Fixed Attenuator

BW-S40W2+

50Ω 2W 40dB DC to 18000 MHz

Generic photo used for illustration purposes only

CASE STYLE: FF659

Connectors	Model
SMA Female-SMA Male	BW-S40W2+

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

Maximum Ratings

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

**With mated connectors. Unmated, 85°C max.
Permanent damage may occur if any of these limits are exceeded.

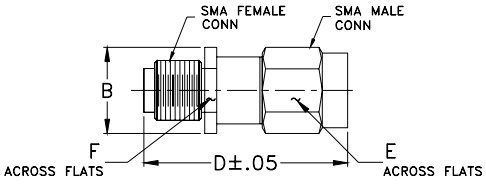
Features

- DC to 18000 MHz
- precise attenuation
- excellent VSWR, 1.20 typ.
- stainless steel SMA male and female connectors

Applications

- matching
- instrumentation
- test set-ups

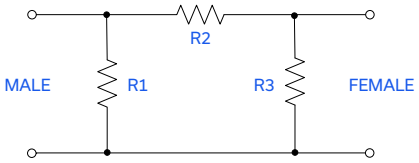
Outline Drawing



Outline Dimensions (inch / mm)

B	D	E	F	wt
.36	.99	.312	.312	grams
9.14	25.15	7.92	7.92	5.1

Electrical Schematic



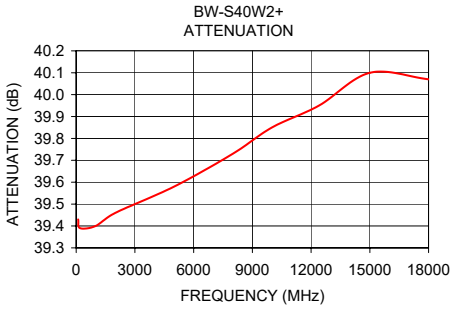
Electrical Specifications

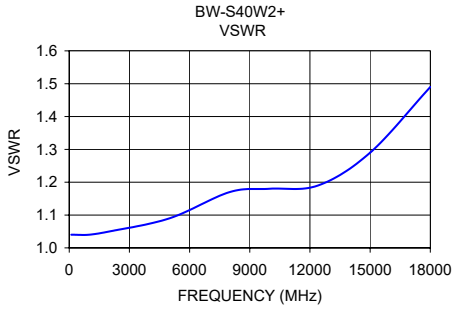
FREQ. RANGE (MHz)	ATTENUATION[1] (dB)		VSWR[2] (:1)			MAX. INPUT POWER[3] (W)
			DC-4 GHz	4-8 GHz	8-12.4 GHz	
f_L-f_U	Nom.	ACCURACY	Max.	Max.	Max.	
DC-18000	40	-1.5, +1.5	1.20	1.25	1.30	2

1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
3. Average power at 25°C ambient, derate linearly to 0.5W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF

Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	39.43	1.04
199.90	39.39	1.04
1000.00	39.40	1.04
1999.90	39.46	1.05
5000.00	39.58	1.09
7999.90	39.73	1.17
9999.90	39.85	1.18
12400.10	39.95	1.19
15000.00	40.10	1.29
18000.00	40.07	1.49





Notes
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 instructions.
C. 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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