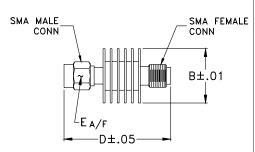
Coaxial **Precision Fixed Attenuator**

50Ω 8dB **5W**

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 ecour if any of these limits are exceeded				

Outline Drawing



Outline Dimensions (inch)

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

Features

- DC to 18000 MHz
- precise attenuation
- excellent VSWR, 1.20 typ.

DC to 18000 MHz

stainless steel SMA male and female connectors

Applications

matching

- instrumentation
- test set-ups





Generic photo used for illustration purposes only

CASE STYLE: DC737 Connectors Model

SMA Female-SMA Male BW-S8W5+

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

Electrical Specifications

FREQ. RANGE (MHz)	ATTENUATION' (dB)		DC-4 GHz	VSWR ² (:1) 4-8 GHz	8-12.4 GHz	MAX. INPUT POWER ³ (W)
f _L -f _U	Nom.	ACCURACY	Max.	Max.	Max.	
DC-18000	8	±0.60	1.20	1.25	1.30	5

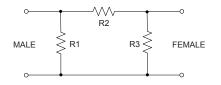
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ. 2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.

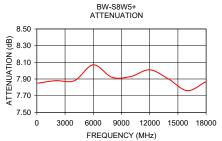
3. Average power at 25°C ambient, derate linearly to 2W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF.

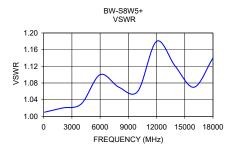
Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100	7.85	1.01
2000	7.88	1.02
4000	7.88	1.03
6000	8.07	1.10
8000	7.92	1.07
10000	7.93	1.06
12000	8.01	1.18
14000	7.90	1.12
16000	7.76	1.07
18000	7.87	1.14

Electrical Schematic







BEV. E M151107 EA-8723 BW-S8W5+ 200504 Page 1 of 1

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 Niin-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jspMíní-Circuits

www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

Fixed Attenuator

Typical Performance Data

FREQUENCY (MHz)	ATTENUATION (dB)	RETURN LOSS (dB)
100.00	7.85	46.06
2000.00	7.88	40.09
4000.00	7.88	36.61
6000.00	8.07	26.44
8000.00	7.92	29.42
10000.00	7.93	30.71
12000.00	8.01	21.66
14000.00	7.90	24.94
16000.00	7.76	29.42
18000.00	7.87	23.69

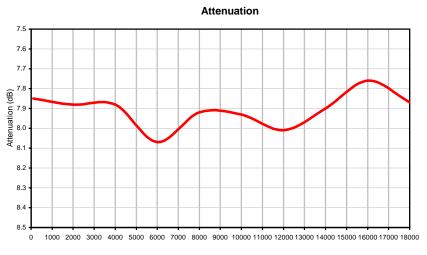


REV. X1 BW-S8W5+ 061107 Page 1 of 1

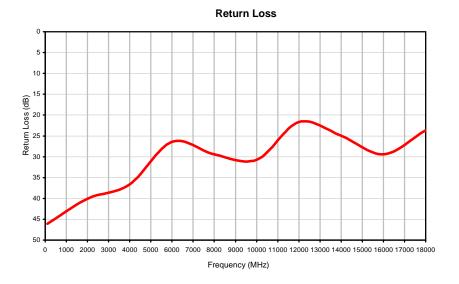
IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED O RoHS compliant P.O. Box 350166, Brooklyn, New York 11255-0003 (718) 934-4500 Fax (718) 932-4661 PeterPending The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

Fixed Attenuator

Typical Performance Curves



Frequency (MHz)





REV. X1 BW-S8W5+ 061107 Page 1 of 1

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Case Style

Outline Dimensions

CASE#	А	В	С	D	Е	WT. GRAMS
DC737		.61		1.20	.312	9.1
DC737		(15.49)		(30.48)	(7.92)	9.1

Dimensions are in inches (mm). Tolerances: 2 Pl. <u>+</u>.03; 3 Pl. <u>+</u>.015

Notes:

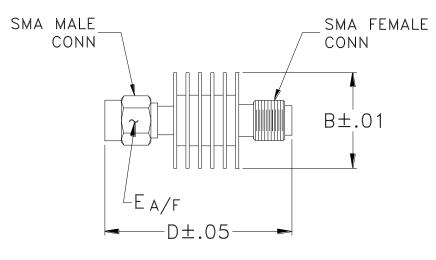
- 1. Case material: Aluminum alloy.
- 2. Case finish: Black anodize.



ISO 9001 ISO 14001 CERTIFIED

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Sheet 1 of 1

Mini-Circuits Environmental Specifications ENV28

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec	
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet	
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet	
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D	
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103	
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B	
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D	
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I	

ENV28 Rev: B 09/26/13 M143494 File: ENV28.pdf

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