Coaxial Precision Fixed Attenuator

40dB

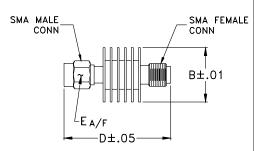
50Ω **5**W

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C**
**With mated connectors. Unmate	ed, 85°C max.
	A.0. 0. 0. 1. 1. 1. 1.

Permanent damage may occur 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

DC to 18000 MHz

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





CASE STYLE: DC737
Connectors Model
SMA Female-SMA Male BW-S40W5+

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

Electrical Specifications

FREQ. RANGE (MHz)	ATTENUATION ¹ (dB)		DC-4	VSWR ² (:1) DC-4 4-8 8-12.4		MAX. INPUT POWER ³ (W)
f f	Nom.	ACCURACY	GHz Max.	GHz Max.	GHz Max.	
f _L -f _U		ACCONACT				
DC-18000	40	±1.5	1.20	1.25	1.30	5

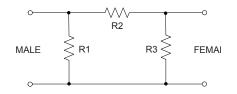
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ. 2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.

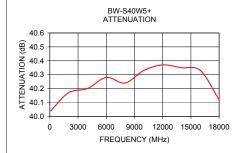
3. Average power at 25°C ambient, derate linearly to 2W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF.

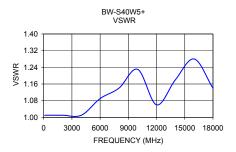
Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)	
((02)	()	
100	40.04	1.01	
2000	40.17	1.01	
4000	40.20	1.01	
6000	40.28	1.09	
8000	40.24	1.14	
10000	40.33	1.23	
12000	40.37	1.06	
14000	40.35	1.18	
16000	40.33	1.28	
18000	40.12	1.14	

Electrical Schematic







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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 intended to be excluded and do not form a part of this specification document. C. The parts covered by this specification document are analytication document are intended to be excluded and do not form a part of this specification document are and the specification document are intended to be excluded and do not form a part of this specification document are intended to be excluded and do not form a part of this specification document are intended to be excluded and do not form a part of this specification document are intended to be excluded and do not form a part of this specification document are intended to be excluded and do not form a part of this specification document 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 Mini-Circuits®

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Fixed Attenuator

Typical Performance Data

FREQUENCY (MHz)	ATTENUATION (dB)	RETURN LOSS (dB)
100.00	40.04	46.06
2000.00	40.17	46.06
4000.00	40.20	46.06
6000.00	40.28	27.32
8000.00	40.24	23.69
10000.00	40.33	19.73
12000.00	40.37	30.71
14000.00	40.35	21.66
16000.00	40.33	18.22
18000.00	40.12	23.69

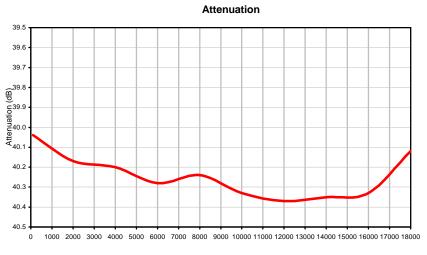


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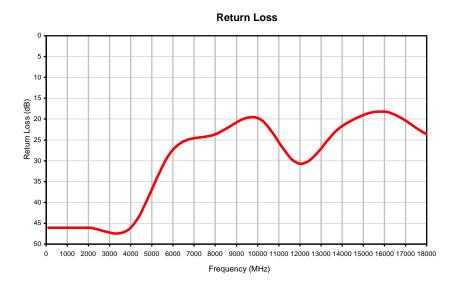
IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED O RoHS compliant P.O. Box 350166, Brooklyn, New York 1125-0003 (718) 934-4500 Fax (718) 932-4661 minicipality.com PeterPending The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

Fixed Attenuator

Typical Performance Curves



Frequency (MHz)



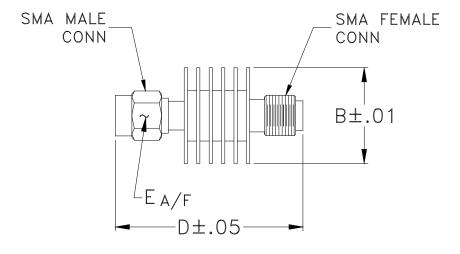
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Case Style

Outline Dimensions



CASE#	А	В	С	D	Е	WT. GRAMS
DC727		.61		1.20	.312	0.1
DC/3/		(15.49)		(30.48)	(7.92)	9.1

Internet http://www.minicircuits.com P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

INTERNET http://www.minicircuits.com

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

Notes:

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



Sheet 2 of 7

DC737

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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