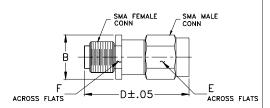
Coaxial **Precision Fixed Attenuator**

50Ω 2W 5dB

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

Outline Drawing



Outline Dimensions (inch)

wt	F	Е	D	В
grams	.312	.312	.85	.36
4.3	7.92	7.92	21.59	9.14

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



BW-S5W2+

Generic photo used for illustration purposes only CASE STYLE: FF658

Connectors Model SMA Female-SMA Male BW-S5W2+

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

Electrical Specifications

FREQ. RANGE (MHz)	ATTENUATION' (dB)			VSWR ² (:1)		MAX. INPUT POWER ³
			DC-4 GHz	4-8 GHz	8-12.4 GHz	(W)
f _∟ -f _∪	Nom.	ACCURACY	Max.	Max.	Max.	
DC-18000	5	±0.40	1.20	1.25	1.30	2

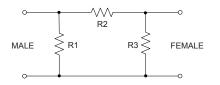
1. At 25°C, accuracy includes frequency and power variations. Accuracy extends to ±0.6 dB above 12.4 GHz.

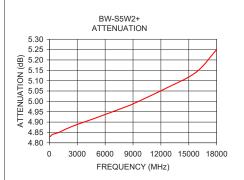
Temperature coefficient for attenuation: .0004dB/dB/°C typ.

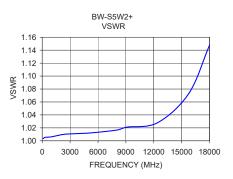
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ. 3. Average power at 25°C ambient, derate linearly to 0.5W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF

Typical Performance Data				
Frequency (MHz)	Attenuation (dB)	VSWR (:1)		
100.00	4.83	1.00		
325.00	4.84	1.01		
1000.00	4.85	1.01		
2500.00	4.88	1.01		
5000.00	4.92	1.01		
8000.00	4.97	1.02		
9100.00	4.99	1.02		
12400.00	5.06	1.03		
15760.00	5.14	1.07		
18000.00	5.25	1.15		

Electrical Schematic







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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 Nini-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.jsp Mini-Circuits

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

Fixed Attenuator

Typical Performance Data

FREQUENCY (GHz)	ATTENUATION (dB)	VSWR (:1)
100.00	4.83	1.00
325.00	4.84	1.01
1000.0	4.85	1.01
2500.0	4.88	1.01
5000.0	4.92	1.01
8000.0	4.97	1.02
9100.0	4.99	1.02
12400.0	5.06	1.03
15760.0	5.14	1.07
18000.0	5.25	1.15



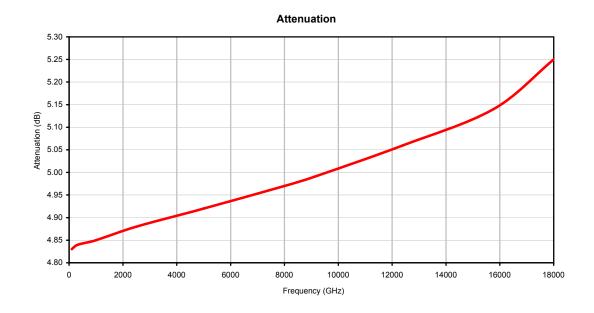


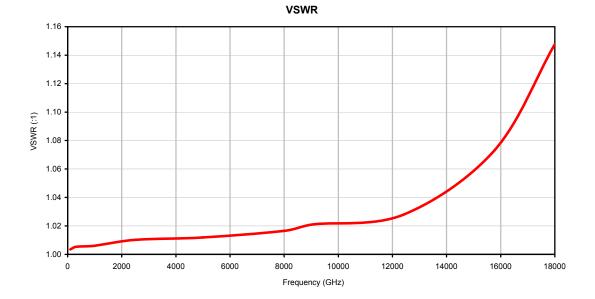
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

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Fixed Attenuator

Typical Performance Curves



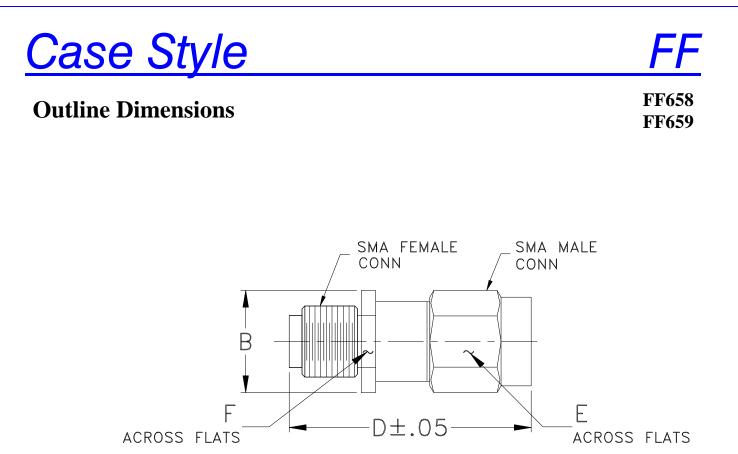






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REV.OR



CASE #.	А	В	С	D	Е	F	WT GRAMS
FF658		.36		.85 (21.59)	.312	.312	4.3
FF659		(9.14)		.99 (25.15)	(7.92)	(7.92)	5.1

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

Note:

1. Case material: Stainless steel.





P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com



RF/IF MICROWAVE COMPONENTS

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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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