

SMA/BNC

NON-CATALOG

# Adaptenuator

SF-BF-10

50Ω 0.5W 10dB DC to 2000 MHz

## Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 150°C

Permanent damage may occur if any of these limits are exceeded.

## Features

- improved interface matching
- wideband, DC to 2000 MHz, useable to 4000 MHz
- excellent VSWR, 1.1:1 typ.
- excellent flatness,  $\pm 0.1$  dB typ.
- rugged unibody construction



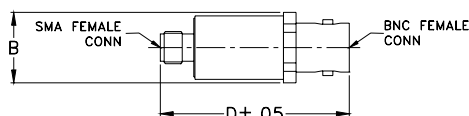
CASE STYLE: DJ872

| Connectors | Model      |          |
|------------|------------|----------|
| Conn1      | Conn2      |          |
| SMA-Female | BNC-Female | SF-BF-10 |

## Applications

- instrumentation
- provides attenuation and connector type change
- minimizes hardware

## Outline Drawing



## Electrical Specifications

| FREQ.<br>(MHz) | ATTENUATION (dB)                 |      |      |      |                |      |                |      | VSWR (:1)     |      |                |      |                |      | MAX.<br>INPUT<br>POWER<br>(W) |
|----------------|----------------------------------|------|------|------|----------------|------|----------------|------|---------------|------|----------------|------|----------------|------|-------------------------------|
|                | Flatness*                        |      |      |      |                |      |                |      |               |      |                |      |                |      |                               |
|                | DC-500<br>MHz                    |      |      |      | DC-1000<br>MHz |      | DC-2000<br>MHz |      | DC-500<br>MHz |      | DC-1000<br>MHz |      | DC-2000<br>MHz |      |                               |
|                | f <sub>L</sub> to f <sub>U</sub> | Nom. | Typ. | Max. | Typ.           | Max. | Typ.           | Max. | Typ.          | Max. | Typ.           | Max. | Typ.           | Max. |                               |
| DC-2000        | 10±0.3                           | 0.05 | 0.10 | 0.10 | 0.15           | 0.10 | 0.20           | 1.1  | 1.2           | 1.1  | 1.3            | 1.2  | 1.25           | 0.5  |                               |

\*Flatness defined as peak to peak attenuation over band divided by 2.

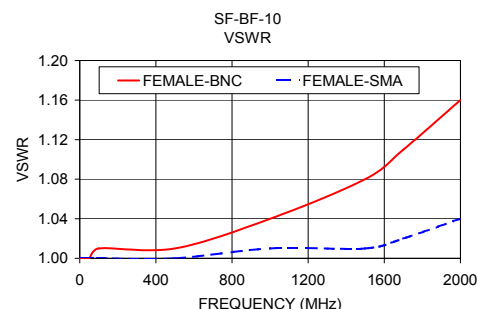
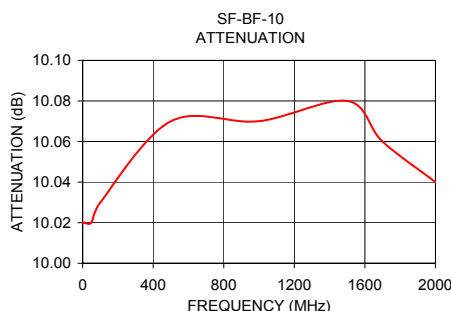
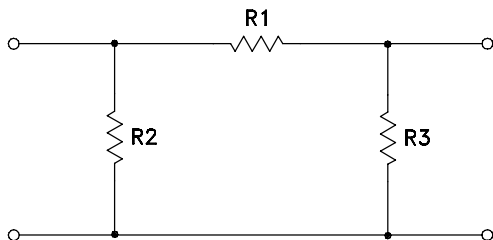
## Typical Performance Data

| FREQUENCY<br>(MHz) | ATTENUATION<br>(dB) | VSWR<br>(:1) |            |
|--------------------|---------------------|--------------|------------|
|                    |                     | BNC-Female   | SMA-Female |
| 1.00               | 10.02               | 1.00         | 1.00       |
| 5.00               | 10.02               | 1.00         | 1.00       |
| 10.00              | 10.02               | 1.00         | 1.00       |
| 50.00              | 10.02               | 1.00         | 1.00       |
| 100.00             | 10.03               | 1.01         | 1.00       |
| 500.00             | 10.07               | 1.01         | 1.00       |
| 1000.00            | 10.07               | 1.04         | 1.01       |
| 1500.00            | 10.08               | 1.08         | 1.01       |
| 1700.00            | 10.06               | 1.11         | 1.02       |
| 2000.00            | 10.04               | 1.16         | 1.04       |

## Outline Dimensions (inch/mm)

| B     | D     | wt    |
|-------|-------|-------|
| .55   | 1.47  | grams |
| 13.97 | 37.34 | 16.2  |

## Electrical Schematic



### 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](http://www.minicircuits.com/MCLStore/terms.jsp)


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