

# Type-N/BNC Adaptenuator

50Ω 0.5W 10dB DC to 2000 MHz

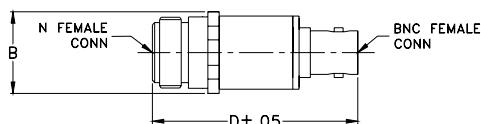
## Maximum Ratings

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.

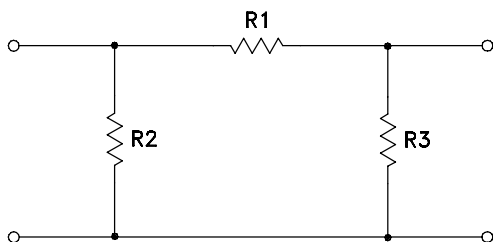
## Outline Drawing



## Outline Dimensions (inch/mm)

| B     | D     | wt    |
|-------|-------|-------|
| .73   | 1.79  | grams |
| 18.54 | 45.47 | 40.2  |

## Electrical Schematic



## 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

## Applications

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

NF-BF-10



CASE STYLE: DJ868

| Connectors |            | Model    |
|------------|------------|----------|
| Conn1      | Conn2      |          |
| N-Female   | BNC-Female | NF-BF-10 |

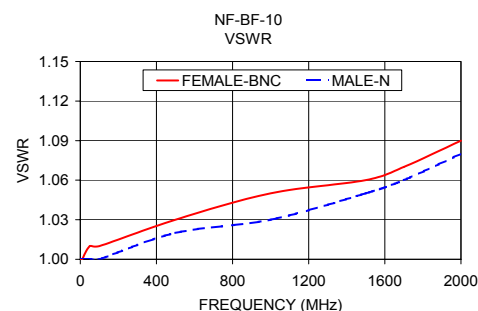
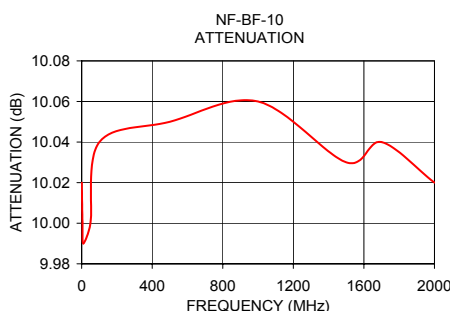
## Electrical Specifications

| 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 |      |                               |
|                | Nom.             | Typ. | Max. | Typ.           | Max. | Typ.           | Max. | Typ.          | Max. | Typ.           | Max. | Typ.           | Max. |                               |
| DC-2000        | 10±0.3           | 0.05 | 0.15 | 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   | N-Female |
| 1.00               | 10.02               | 1.00         | 1.00     |
| 5.00               | 10.00               | 1.00         | 1.00     |
| 10.00              | 9.99                | 1.00         | 1.00     |
| 50.00              | 10.00               | 1.01         | 1.00     |
| 100.00             | 10.04               | 1.01         | 1.00     |
| 500.00             | 10.05               | 1.03         | 1.02     |
| 1000.00            | 10.06               | 1.05         | 1.03     |
| 1500.00            | 10.03               | 1.06         | 1.05     |
| 1700.00            | 10.04               | 1.07         | 1.06     |
| 2000.00            | 10.02               | 1.09         | 1.08     |



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



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