

SMA/BNC

# Adaptenuator

**50Ω    0.5W    6dB    DC to 2000 MHz**
**SM-BM-6**


## 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

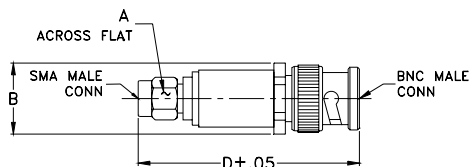
CASE STYLE: DJ869

| Connectors        | Model             | Price   | Qty.               |
|-------------------|-------------------|---------|--------------------|
| Conn1<br>SMA-Male | Conn2<br>BNC-Male | SM-BM-6 | \$19.95 ea. (1-24) |

## 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*                      |            |      |             |      |             |      |            |     |             |     |             |      |                               |
|                | f <sub>L</sub> -f <sub>U</sub> | DC-500 MHz |      | DC-1000 MHz |      | DC-2000 MHz |      | DC-500 MHz |     | DC-1000 MHz |     | DC-2000 MHz |      |                               |
|                | Nom.                           | Typ        | Max  | Typ         | Max  | Typ         | Max  | Typ        | Max | Typ         | Max | Typ         | Max  |                               |
| DC-2000        | 6±0.3                          | 0.05       | 0.15 | 0.10        | 0.20 | 0.15        | 0.25 | 1.1        | 1.2 | 1.1         | 1.2 | 1.2         | 1.25 | 0.5                           |

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

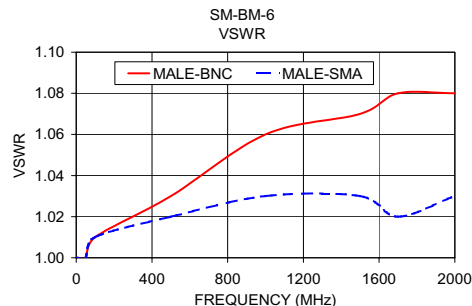
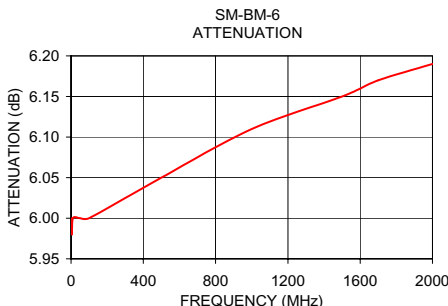
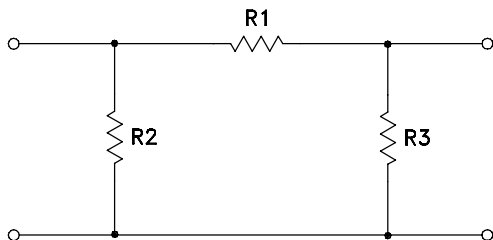
## Typical Performance Data

| FREQUENCY<br>(MHz) | ATTENUATION<br>(dB) | VSWR<br>(:1) |          |
|--------------------|---------------------|--------------|----------|
|                    |                     | BNC-Male     | SMA-Male |
| 1.00               | 6.00                | 1.00         | 1.00     |
| 5.00               | 5.98                | 1.00         | 1.00     |
| 10.00              | 6.00                | 1.00         | 1.00     |
| 50.00              | 6.00                | 1.00         | 1.00     |
| 100.00             | 6.00                | 1.01         | 1.01     |
| 500.00             | 6.05                | 1.03         | 1.02     |
| 1000.00            | 6.11                | 1.06         | 1.03     |
| 1500.00            | 6.15                | 1.07         | 1.03     |
| 1700.00            | 6.17                | 1.08         | 1.02     |
| 2000.00            | 6.19                | 1.08         | 1.03     |

## Outline Dimensions (inch/mm)

| A    | B     | D     | wt    |
|------|-------|-------|-------|
| .312 | .61   | 1.89  | grams |
| 7.92 | 15.49 | 48.01 | 25.8  |

## 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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