

1 dB Fixed Attenuator 75 Ohm BNC Male (Plug)  
to 75 Ohm BNC Female (Jack) DC to 1 GHz rated  
to 1 Watt Brass Tri-Metal Body 1.2:1 VSWR



## FMAT7751-1

### Features

- DC to 1 GHz Frequency Range
- BNC Connectorized Design
- Attenuation 1 dB  $\pm$ 0.5 dB
- Max Power 1 Watts (CW)
- Max VSWR of 1.2:1

### Applications

- Instrumentation
- Cable TV and Video Distribution
- Prototyping and Characterization
- Production Systems

### Description

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (or attenuate) a known amount. These attenuator pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The FMAT7751-1 is a 1 dB Fixed Attenuator that operates from DC to 1 GHz and is rated to 1 Watt. The versatile coaxial package uses BNC male to BNC female connectors and is also REACH compliant.

### Electrical Specifications

| Description          | Minimum | Typical   | Maximum | Units |
|----------------------|---------|-----------|---------|-------|
| Frequency Range      | DC      |           | 1,000   | MHz   |
| Impedance            |         | 75        |         | Ohms  |
| Nominal Attenuation  |         | 1         |         | dB    |
| Attenuation Accuracy |         | $\pm$ 0.5 |         | dB    |
| VSWR                 |         |           | 1.2:1   |       |
| Input Power, CW      |         |           | 1       | Watt  |

### Mechanical Specifications

#### Size

|                           |                    |
|---------------------------|--------------------|
| Length                    | 2.09 in [53.09 mm] |
| Width/Diameter            | 0.57 in [14.48 mm] |
| Height                    | 0.57 in [14.48 mm] |
| Weight                    | 0.04 lbs [18.14 g] |
| Body Material and Plating | Brass, Tri-Metal   |

#### Configuration

|               |                      |
|---------------|----------------------|
| Design        | Fixed, Bidirectional |
| Design Type   | Standard             |
| Package Style | Connectorized        |

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### Connectors

| Description                  | Connector 1           | Connector 2           |
|------------------------------|-----------------------|-----------------------|
| Type                         | BNC Male              | BNC Female            |
| Contact Material and Plating | Phosphor bronze, Gold | Phosphor bronze, Gold |
| Dielectric Type              | PTFE                  | PTFE                  |
| Body Material and Plating    | Brass, Tri-Metal      | Brass, Tri-Metal      |

### Environmental Specifications

#### Temperature

Operating Range -50 to +80 deg C

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

### Typical Performance Data

1 dB Fixed Attenuator 75 Ohm BNC Male (Plug) to 75 Ohm BNC Female (Jack) DC to 1 GHz rated to 1 Watt Brass Tri-Metal Body 1.2:1 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [1 dB Fixed Attenuator 75 Ohm BNC Male \(Plug\) to 75 Ohm BNC Female \(Jack\) DC to 1 GHz rated to 1 Watt Brass Tri-Metal Body 1.2:1 VSWR FMAT7751-1](#)

URL: <https://www.fairviewmicrowave.com/1db-fixed-attenuator-bnc-male-bnc-female-1-watt-fmat7751-1-p.aspx>

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FMAT7751-1 CAD Drawing

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