

## 20 dB Fixed Attenuator 75 Ohm BNC Male to 75 Ohm BNC Female Brass Tri-Metal body rated 1 Watt DC to 1 GHz



### PE7751-20

#### Features

- DC to 1 GHz Frequency Range
- BNC Connectorized Design
- Attenuation 20 dB  $\pm$ 1 dB
- Max Power 1 Watt (CW)
- Max VSWR of 1.2:1

#### Applications

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

#### Description

Pasternack carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuator pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match 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 Pasternack carries one of the largest in-stock varieties and ships them same day. The 20 dB Fixed Attenuator PE7751-20 is rated to 1 Watt and operates from DC to 1 GHz. 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  |         | 20      |         | dB    |
| Attenuation Accuracy |         | $\pm$ 1 |         | 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                    | 0.01 lbs [4.54 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

20 dB Fixed Attenuator 75 Ohm BNC Male to 75 Ohm BNC Female Brass Tri-Metal body rated 1 Watt DC to 1 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [20 dB Fixed Attenuator 75 Ohm BNC Male to 75 Ohm BNC Female Brass Tri-Metal body rated 1 Watt DC to 1 GHz PE7751-20](#)

URL: <https://www.pasternack.com/20db-fixed-bnc-male-bnc-female-1-watt-attenuator-pe7751-20-p.aspx>

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