

10 dB Fixed Attenuator, 75 Ohm BNC Male to 75 Ohm BNC Female Brass Nickel Body Rated to 1 Watt Up to 1,000 MHz



**PE7009-10**

**Features**

- Bidirectional
- DC to 1 GHz Frequency Range
- Attenuation 10±0.5 dB
- Max Power 1 Watts (CW)
- VSWR < 1.2:1

**Applications**

- Instrumentation
- Precision measurements
- 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 10 dB Fixed Attenuator PE7009-10 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 and RoHS compliant.

**Electrical Specifications**

| Description          | Minimum | Typical | Maximum | Units |
|----------------------|---------|---------|---------|-------|
| Frequency Range      | DC      |         | 1,000   | MHz   |
| Impedance            |         | 75      |         | Ohms  |
| Nominal Attenuation  |         | 10      |         | dB    |
| Attenuation Accuracy |         | 0.5     |         | dB    |
| VSWR                 |         |         | 1.2:1   |       |
| Input Power, CW      |         |         | 1       | Watt  |

**Mechanical Specifications**

**Size**

- Length 1.8 in [45.72 mm]
- Width/Diameter 0.59 in [14.99 mm]
- Height 0 in [0 mm]
- Weight 0.034 lbs [15.42 g]
- Body Material and Plating Brass, Nickel

**Configuration**

- Design Fixed, Bidirectional
- Package Style Connectorized Module

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### Connectors

| Description                       | Connector 1   | Connector 2            |
|-----------------------------------|---------------|------------------------|
| Type                              | BNC Male      | BNC Female             |
| Contact Material and Plating      | Brass, Gold   | Beryllium Copper, Gold |
| Dielectric Type                   | Teflon        | Teflon                 |
| Coupling Nut Material and Plating | Brass, Nickel |                        |
| Body Material and Plating         | Brass, Nickel | Brass, Nickel          |

### Environmental Specifications

#### Temperature

Operating Range -30 to +70 deg C

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

### Plotted and Other Data

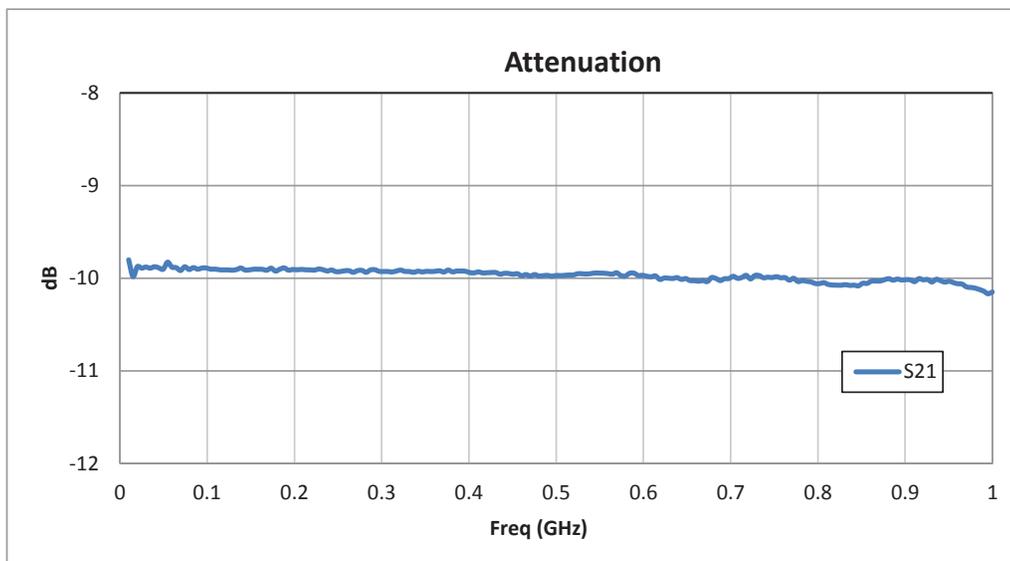
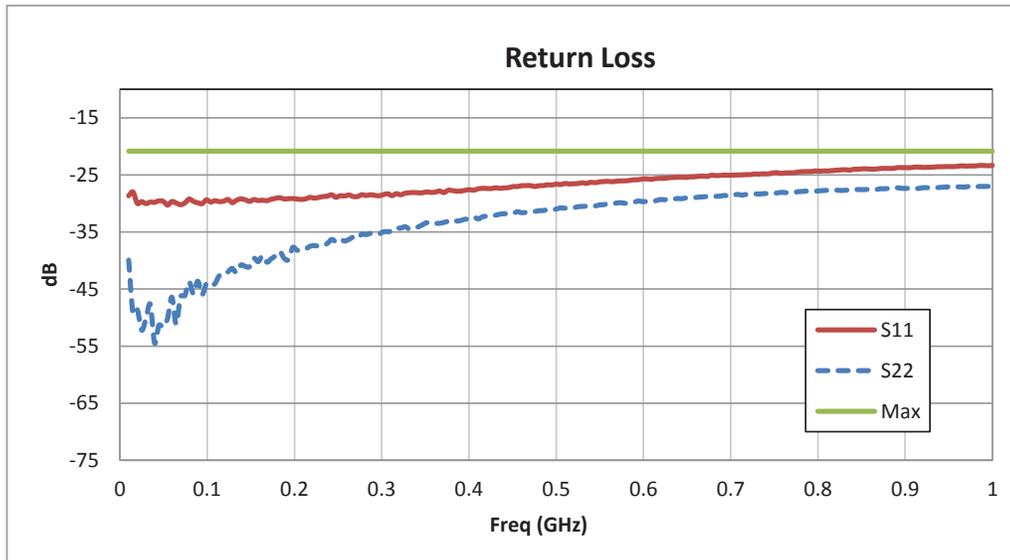
Notes:

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Typical Performance Data



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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10 dB Fixed Attenuator, 75 Ohm BNC Male to 75 Ohm BNC Female Brass Nickel Body Rated to 1 Watt Up to 1,000 MHz PE7009-10](#)

URL: <https://www.pasternack.com/10db-fixed-bnc-female-bnc-male-1-watt-attenuator-pe7009-10-p.aspx>

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