

## 10 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Rated to 0.2 Watts Up to 110 GHz



### **RF Fixed Attenuators Technical Data Sheet**

PE7450-10

### **Features**

- · DC to 110 GHz Frequency Range
- 1.0 mm (W1) Connectorized Design
- · Attenuation 10 dB

- Max Power 0.2 Watts (CW)
- Typical VSWR of 1.4:1

### **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 PE7450-10 is rated to 0.2 Watts and operates from DC to 110 GHz. The versatile coaxial package uses 1.0 mm (W1) male to 1.0 mm (W1) female connectors.

### **Electrical Specifications**

| Description          | Minimum | Typical | Maximum | Units |
|----------------------|---------|---------|---------|-------|
| Frequency Range      | DC      |         | 110     | GHz   |
| Impedance            |         | 50      |         | Ohms  |
| Nominal Attenuation  |         | 10      |         | dB    |
| Attenuation Accuracy |         |         | ±1.5    | dB    |
| VSWR                 |         |         | 1.9:1   |       |
| Input Power, CW      |         |         | 0.2     | Watts |

### **Specifications by Frequency**

| Description               | F1       | F2       | F3        | F4         | F5 | Units |
|---------------------------|----------|----------|-----------|------------|----|-------|
| Frequency Range           | DC to 15 | 15 to 50 | 50 to 105 | 105 to 110 |    | GHz   |
| VSWR, Max                 | 1.2:1    | 1.4:1    | 1.7:1     | 1.9:1      |    |       |
| Attenuation Accuracy, Max | ±1       | ±1.5     | ±1.5      | ±1.5       |    | dB    |
|                           |          |          |           |            |    |       |

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, 1.0 mm Male to 1.0 mm Female Rated to 0.2 Watts Up to 110 GHz PE7450-10

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### **Mechanical Specifications**

Size

 Length
 1.1 in [27.94 mm]

 Width/Diameter
 0.433 in [11 mm]

 Height
 0.433 in [11 mm]

 Weight
 0.15 lbs [68.04 g]

Configuration

Design

Package Style Connectorized

### Connectors

| Description | Connector 1  | Connector 2 |  |  |
|-------------|--------------|-------------|--|--|
| Туре        | 1.0mm Female | 1.0mm Male  |  |  |
|             |              |             |  |  |

### **Environmental Specifications**

**Temperature** 

Operating Range +0 to +70 deg C Storage Range -55 to +125 deg C

Humidity 95% at 40 °C, 96 hours, Test 103B, Condition B Shock 100 Gn peak sawtooth, method 213, Condition B

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

10 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Rated to 0.2 Watts Up to 110 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.

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URL: https://www.pasternack.com/10db-fixed-1.0mm-female-1.0mm-male-0.2-watts-attenuator-pe7450-10-p.aspx

### PE7450-10 CAD Drawing

10 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Rated to 0.2 Watts Up to 110 GHz

