

## 10 dB Fixed Attenuator, 1.85mm Male to 1.85mm Female Aluminum Body Rated to 5 Watts DC to 67 GHz



### PE7714-10

#### Features

- DC to 67 GHz Frequency Range
- 1.85mm Connectorized Design
- Attenuation 10 dB  $\pm$ 1.5 dB
- Max Power 5 Watts (CW)
- Max VSWR of 1.45:1

#### 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 PE7714-10 is rated to 5 Watts and operates from DC to 67 GHz. The versatile coaxial package uses 1.85mm male to 1.85mm female connectors and is also REACH compliant.

#### Electrical Specifications

| Description                       | Minimum | Typical   | Maximum | Units |
|-----------------------------------|---------|-----------|---------|-------|
| Frequency Range                   | DC      |           | 67      | GHz   |
| Impedance                         |         | 50        |         | Ohms  |
| Nominal Attenuation               |         | 10        |         | dB    |
| Attenuation Accuracy              |         | $\pm$ 1.5 |         | dB    |
| VSWR                              |         |           | 1.45:1  |       |
| Input Power, CW                   |         |           | 5       | Watts |
| Input Power, Peak                 |         |           | 200     | Watts |
| 5 $\mu$ s PW with 0.5% duty cycle |         |           |         |       |

#### Mechanical Specifications

##### Size

|                           |                    |
|---------------------------|--------------------|
| Length                    | 1.16 in [29.46 mm] |
| Width/Diameter            | 1.77 in [44.96 mm] |
| Height                    | 1.77 in [44.96 mm] |
| Weight                    | 0.01 lbs [4.54 g]  |
| Body Material and Plating | Aluminum           |

##### Configuration

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

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### Connectors

| Description                  | Connector 1            | Connector 2            |
|------------------------------|------------------------|------------------------|
| Type                         | 1.85mm Male            | 1.85mm Female          |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Material and Plating    | Stainless Steel        | Stainless Steel        |

### Environmental Specifications

#### Temperature

Operating Range -55 to +100 deg C

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

### Plotted and Other Data

Notes:

### Typical Performance Data

10 dB Fixed Attenuator, 1.85mm Male to 1.85mm Female Aluminum Body Rated to 5 Watts DC to 67 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: [10 dB Fixed Attenuator, 1.85mm Male to 1.85mm Female Aluminum Body Rated to 5 Watts DC to 67 GHz PE7714-10](#)

URL: <https://www.pasternack.com/10db-fixed-1.85mm-male-1.85mm-female-5-watts-attenuator-pe7714-10-p.aspx>

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PE7714-10 CAD Drawing

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