

## 10 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 6 GHz



### PE7AP006-10

#### Features

- DC to 6 GHz Frequency Range
- Attenuation 10±1 dB
- Max Power 5 Watts (CW)
- VSWR < 1.25:1

#### 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 PE7AP006-10 is rated to 5 Watts and operates from DC to 6 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH and RoHS compliant. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

#### Electrical Specifications

| Description                        | Minimum | Typical | Maximum | Units |
|------------------------------------|---------|---------|---------|-------|
| Frequency Range                    | DC      |         | 6       | GHz   |
| Impedance                          |         | 50      |         | Ohms  |
| Nominal Attenuation                |         | 10      |         | dB    |
| Attenuation Accuracy               |         | 1       |         | dB    |
| VSWR                               |         |         | 1.25:1  |       |
| Input Power, CW                    |         |         | 5       | Watts |
| derated linearly to 0.5W at +125°C |         |         |         |       |
| Input Power, Peak                  |         |         | 500     | Watts |
| 5µs pulse, 0.25% duty cycle        |         |         |         |       |

#### Mechanical Specifications

##### Size

|                           |                                  |
|---------------------------|----------------------------------|
| Length                    | 2.15 in [54.61 mm]               |
| Width/Diameter            | 0.86 in [21.84 mm]               |
| Height                    | 0 in [0 mm]                      |
| Weight                    | 0.1414 lbs [64.14 g]             |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

##### Configuration

|               |                      |
|---------------|----------------------|
| Design        | Fixed                |
| Package Style | Connectorized Module |

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#### Connectors

| Description                   | Connector 1                | Connector 2                |
|-------------------------------|----------------------------|----------------------------|
| Type                          | N Male                     | N Female                   |
| Contact Material and Plating  | Beryllium Copper, Gold     | Beryllium Copper, Gold     |
| Contact Plating Specification | MIL-PRF-39012              | MIL-PRF-39012              |
| Dielectric Type               | Teflon                     | Teflon                     |
| Body Material and Plating     | Passivated Stainless Steel | Passivated Stainless Steel |

Mechanical Specification Notes:  
Materials and finishes comply with MIL-DTL-3933 and MIL-PRF-39012.

#### Environmental Specifications

**Temperature**  
Operating Range -65 to +125 deg C

Environmental Specification Notes:  
Designed to meet environmental requirements of MIL-DTL-3933.

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

10 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 6 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, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 6 GHz PE7AP006-10](#)

URL: <https://www.pasternack.com/10db-fixed-n-male-n-female-5-watts-attenuator-pe7ap006-10-p.aspx>

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PE7AP006-10 CAD Drawing

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