

## 3 dB Fixed Attenuator N-Type Male to N-Type Female Black Anodized Aluminum Heatsink Body Rated 5 Watt DC to 18 GHz



### PE7624-3

#### Features

- DC to 18 GHz Frequency Range
- N-Type Connectorized Design
- Attenuation 3 dB  $\pm$ 0.8 dB
- Max Power 5 Watts (CW)
- Max VSWR of 1.3:1

#### 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 3 dB Fixed Attenuator PE7624-3 is rated to 5 Watts and operates from DC to 18 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH compliant.

#### Electrical Specifications

| Description                      | Minimum | Typical   | Maximum   | Units |
|----------------------------------|---------|-----------|-----------|-------|
| Frequency Range                  | DC      |           | 18        | GHz   |
| Impedance                        |         | 50        |           | Ohms  |
| Nominal Attenuation              |         | 3         |           | dB    |
| Attenuation Accuracy             |         | $\pm$ 0.5 | $\pm$ 0.8 | dB    |
| VSWR                             |         |           | 1.3:1     |       |
| Input Power, CW                  |         |           | 5         | Watts |
| Derated linearly to 0.5W @ 125°C |         |           |           |       |
| Input Power, Peak                |         |           | 500       | Watts |
| 5 $\mu$ Sec PW, 1% duty cycle    |         |           |           |       |

#### Mechanical Specifications

##### Size

|                           |                         |
|---------------------------|-------------------------|
| Length                    | 2.36 in [59.94 mm]      |
| Width/Diameter            | 0.79 in [20.07 mm]      |
| Height                    | 0.79 in [20.07 mm]      |
| Weight                    | 0.01 lbs [4.54 g]       |
| Body Material and Plating | Black Anodized Aluminum |

##### Configuration

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

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Female Black Anodized Aluminum Heatsink  
Body Rated 5 Watt DC to 18 GHz



**PE7624-3**

**Connectors**

| Description                  | Connector 1   | Connector 2            |
|------------------------------|---------------|------------------------|
| Type                         | N Male        | N Female               |
| Contact Material and Plating | Brass, Gold   | Beryllium Copper, Gold |
| Body Material and Plating    | Brass, Nickel | Brass, Nickel          |

**Environmental Specifications**

**Temperature**

Operating Range -55 to +125 deg C

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**

3 dB Fixed Attenuator N-Type Male to N-Type Female Black Anodized Aluminum Heatsink Body Rated 5 Watt DC to 18 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: [3 dB Fixed Attenuator N-Type Male to N-Type Female Black Anodized Aluminum Heatsink Body Rated 5 Watt DC to 18 GHz PE7624-3](#)

URL: <https://www.pasternack.com/3db-fixed-n-male-n-female-5-watts-attenuator-pe7624-3-p.aspx>

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PE7624-3 CAD Drawing

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