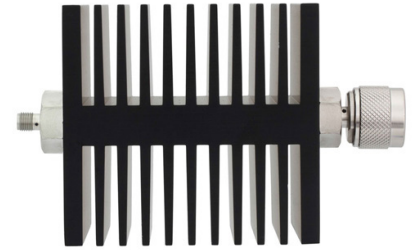


50 dB Fixed Attenuator, SMA Female To N Male
Directional Black Anodized Aluminum Heatsink
Body Rated To 50 Watts Up To 18 GHz



PE7318-50

Features

Applications

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 50 dB Fixed Attenuator PE7318-50 is rated to 50 Watts and operates from DC to 18 GHz. The versatile coaxial package uses SMA female to type N male 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 | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 50 | | dB |
| VSWR | | | 1.6:1 | |
| Input Power, CW | | | 50 | Watts |
| Input Power, Peak | | | 500 | Watts |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---------------------------|---------|-----------|------------|----|----|-------|
| Frequency Range | DC to 6 | 6 to 12.4 | 12.4 to 18 | | | GHz |
| VSWR, Max | 1.3:1 | 1.45:1 | 1.6:1 | | | |
| Attenuation Accuracy, Typ | 1.25 | 2 | 2.5 | | | dB |

Mechanical Specifications

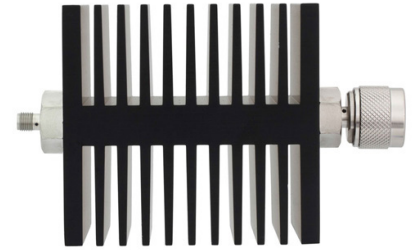
Size

| | |
|---------------------------|----------------------------------|
| Length | 4.01 in [101.85 mm] |
| Width/Diameter | 3 in [76.2 mm] |
| Height | 3 in [76.2 mm] |
| Weight | 1.796 lbs [814.65 g] |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

Configuration

| | |
|--------|--------------------|
| Design | Fixed, Directional |
|--------|--------------------|

50 dB Fixed Attenuator, SMA Female To N Male
Directional Black Anodized Aluminum Heatsink
Body Rated To 50 Watts Up To 18 GHz



PE7318-50

Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|-----------------------------|-----------------------------|
| Type | SMA Female | N Male |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Outer Conductor Material and Plating | | Brass, Silver |
| Coupling Nut Material and Plating | Stainless Steel, Passivated | |
| Coupling Nut Plating Specification | Stainless Steel | |
| Hex Size | 11/16 In. | 11/16 In. |
| Body Material and Plating | Stainless Steel, Passivated | Stainless Steel, Passivated |

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

50 dB Fixed Attenuator, SMA Female To N Male Directional Black Anodized Aluminum Heatsink Body Rated To 50 Watts Up 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: [50 dB Fixed Attenuator, SMA Female To N Male Directional Black Anodized Aluminum Heatsink Body Rated To 50 Watts Up To 18 GHz PE7318-50](#)

URL: <https://www.pasternack.com/50db-fixed-sma-female-n-male-50-watts-attenuator-pe7318-50-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.