

6 dB Fixed Attenuator, SMA Male to SMA
Female Black Anodized Aluminum Heatsink
Body Rated to 50 Watts Up to 18 GHz



PE7427-06

Features

- Bidirectional
- DC to 18 GHz Frequency Range
- Attenuation 6 ± 1.5 dB
- Max Power 50 Watts (CW)
- VSWR < 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 6 dB Fixed Attenuator PE7427-06 is rated to 50 Watts and operates from DC to 18 GHz. The versatile coaxial package uses SMA male to SMA 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. 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 attenuators 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, adjustment the signal level to a range that is optimal.

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--|---------|---------|-----------|--------|
| Frequency Range | DC | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 6 | | dB |
| Attenuation Accuracy | | | ± 1.5 | dB |
| VSWR | | | 1.45:1 | |
| Input Power, CW | | | 50 | Watts |
| rated at +25°C, derated linearly to 5W at +125°C | | | | |
| Input Power, Peak | | | 1 | kWatts |
| 5μs pulse, 2.5% duty cycle | | | | |

Electrical Specification Notes:
Values at +25°C, sea level.

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Mechanical Specifications

Size

| | |
|---------------------------|----------------------------------|
| Length | 0 in [0 mm] |
| Width/Diameter | 0 in [0 mm] |
| Height | 0 in [0 mm] |
| Weight | 0.3838 lbs [174.09 g] |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

Configuration

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

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Female |
| Connector Specification | MIL-STD-348A | MIL-STD-348A |
| Contact Material and Plating | Passivated Stainless Steel | Beryllium Copper, Gold |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |

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

6 dB Fixed Attenuator, SMA Male to SMA Female 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: [6 dB Fixed Attenuator, SMA Male to SMA Female Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 18 GHz PE7427-06](#)

URL: <https://www.pasternack.com/6db-fixed-sma-male-sma-female-50-watts-attenuator-pe7427-06-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.

PE7427-06 CAD Drawing

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