

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



## **RF Fixed Attenuators Technical Data Sheet**

PE7427-03

#### **Features**

- Bidirectional
- DC to 18 GHz Frequency Range
- Attenuation 3±1.5 dB

- Max Power 50 Watts (CW)
- VSWR < 1.35:1</li>

# **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 instock varieties and ships them same day. The 3 dB Fixed Attenuator PE7427-03 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, adjustion 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		3		dB
Attenuation Accuracy			1.5	dB
VSWR			1.35:1	
Input Power, CW			50	Watts

rated at +25°C, derated linearly to 5W at +125°C

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, SMA Male to SMA Female Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 18 GHz PE7427-03

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (868) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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Input Power, Peak

5µs pulse, 2.5% duty cycle

kWatts

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

**Mechanical Specifications** 

Size

Length Width/Diameter

Weight

**Body Material and Plating** 

4.78 in [121.41 mm] 1.5 in [38.1 mm]

0.3841 lbs [174.22 g]

Black Anodized Aluminum Heatsink

Configuration

Design Package Style Fixed, Bidirectional Connectorized Module

### Connectors

Connector 1	Connector 2	
SMA Male	SMA Female	
MIL-STD-348A	MIL-STD-348A	
Beryllium Copper, Gold	Beryllium Copper, Gold	
Passivated Stainless Steel	Passivated Stainless Steel	
	SMA Male MIL-STD-348A Beryllium Copper, Gold	

#### **Environmental Specifications**

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

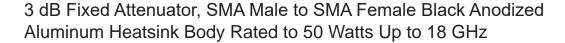
Notes:

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3 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.

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URL: https://www.pasternack.com/3db-fixed-sma-male-sma-female-50-watts-attenuator-pe7427-03-p.aspx

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# PE7427-03 CAD Drawing

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