



20 dB Fixed Attenuator, SMA Male to SMA Female Unidirectional  
Black Anodized Aluminum Body Rated to 10 Watts Up to 12.4 GHz

## RF Fixed Attenuators Technical Data Sheet

**PE7463-20**

### Features

- DC to 12.4 GHz Frequency Range
- SMA Connectorized Design
- Attenuation 20 dB  $\pm$ 0.6 dB
- Max Power 10 Watts (CW)
- Max VSWR of 1.3:1

### Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems
- WIFI 6E
- 5G Cellular Bands

### 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 20 dB Fixed Attenuator PE7463-20 is rated to 10 Watts and operates from DC to 12.4 GHz. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH compliant.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		0.6		dB
VSWR			1.3:1	
Input Power, CW Derated linearly to 1W at 125°C			10	Watts
Input Power, Peak 5 $\mu$ s pulse, 2% Duty Cycle			500	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [20 dB Fixed Attenuator, SMA Male to SMA Female Unidirectional Black Anodized Aluminum Body Rated to 10 Watts Up to 12.4 GHz PE7463-20](#)



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### Mechanical Specifications

#### Size

Length	1.89 in [48.01 mm]
Width/Diameter	0.65 in [16.51 mm]
Height	0.65 in [16.51 mm]
Weight	0.02 lbs [9.07 g]
Body Material and Plating	Black Anodized Aluminum

#### Configuration

Design	Fixed, Unidirectional
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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA 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
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

#### Notes:

20 dB Fixed Attenuator, SMA Male to SMA Female Unidirectional Black Anodized Aluminum Body Rated to 10 Watts Up to 12.4 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/20db-fixed-sma-male-sma-female-10-watts-attenuator-pe7463-20-p.aspx>

# PE7463-20 CAD Drawing

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