

# 12 dB Fixed Attenuator, SMA Male to SMA Female Brass Tri-Metal Body Rated to 1 Watt Up to 2 GHz



## RF Fixed Attenuators Technical Data Sheet

PE7161-12

### **Features**

- Bidirectional
- DC to 2 GHz Frequency Range
- Attenuation 12±0.75 dB

- Max Power 1 Watts (CW)
- VSWR < 1.2:1</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 in-stock varieties and ships them same day. The 12 dB Fixed Attenuator PE7161-12 is rated to 1 Watt and operates from DC to 2 GHz. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2	GHz
Impedance		50		Ohms
Nominal Attenuation		12		dB
Attenuation Accuracy		±0.75		dB
VSWR			1.2:1	
Input Power, CW			1	Watts

### **Mechanical Specifications**

Size

 Length
 0.86 in [21.84 mm]

 Width/Diameter
 0.312 in [7.92 mm]

 Weight
 0.0143 lbs [6.49 g]

 Body Material and Plating
 Brass, Tri-Metal

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 12 dB Fixed Attenuator, SMA Male to SMA Female Brass Tri-Metal Body Rated to 1 Watt Up to 2 GHz PE7161-12

PE7161-12 REV 2.1

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Configuration

Design Package Style Fixed. Bidirectional Connectorized Module

#### Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Female	
Connector Specification	MIL-STD-348	MIL-STD-348	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Coupling Nut Material and Plating	Brass, Tri-Metal		
Hex Size	5/16 in.		
Torque	5 in-lbs 0.57 Nm		
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	

### **Environmental Specifications**

**Temperature** 

Operating Range -20 to +85 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

**RoHS Compliant** 

**REACH Compliant** 12/17/2015

#### **Plotted and Other Data**

Notes:

12 dB Fixed Attenuator, SMA Male to SMA Female Brass Tri-Metal Body Rated to 1 Watt Up to 2 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/12db-fixed-sma-female-sma-male-1-watt-attenuator-pe7161-12-p.aspx



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# PE7161-12 CAD Drawing

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