

10 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**

## PE7161-10

## Features

- Bidirectional
- DC to 2 GHz Frequency Range
- Attenuation 10±0.6 dB

## Applications

InstrumentationPrecision measurements

- Max Power 1 Watts (CW)
  - VSWR < 1.2:1
- 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 10 dB Fixed Attenuator PE7161-10 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		10		dB
Attenuation Accuracy		±0.6		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: 10 dB Fixed Attenuator, SMA Male to SMA Female Brass Tri-Metal Body Rated to 1 Watt Up to 2 GHz PE7161-10

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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Configuration Design Package Style

Fixed. Bidirectional **Connectorized Module** 

#### Connectors

Description	Connector 1	Connector 2
Гуре	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
<b>Compliance Certifications</b> (visit www.Pas RoHS Compliant REACH Compliant	sternack.com for current document) 12/17/2015
Plotted and Other Data	

Notes:

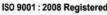
10 dB Fixed Attenuator, SMA Male to SMA Female Brass Tri-Metal Body Rated to 1 Watt Up to 2 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in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

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URL: http://www.pasternack.com/10db-fixed-sma-female-sma-male-1-watt-attenuator-pe7161-10-p.aspx

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PE7161-10 CAD Drawing 10 dB Fixed Attenuator, SMA Male to SMA Female Brass Tri-

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	0.86±0.03 [21.8±0.8]		P	E71	61-	-XX		LABEL		FIGURE 1	200400	[25.1±0.8]		PE7	161	SMA FIGURE 2 MALE XX-	Pasternack Enterprises, Inc. P.O. Box 16759   Irvine   CA   92623	Phone: (949) 261-1920   Fax: (949) 261-7451 Website: www.pasternack.com   E-Mail: sales@pasternack.com
-	•				5/16 HEX						_	•				STANDARD TOLERANCES DECIMAL .XX ±0.01 .XX ±0.005 *STANDARD TOLERANCES APPLY only to DIMENSIONS IN INCHES	P.O. Box	Phone: (949) 2 Website: www.pasterna