

6 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

PE7161-6

Features

- Bidirectional
- DC to 2 GHz Frequency Range
- Attenuation 6±0.6 dB

Applications

InstrumentationPrecision measurements

- Max Power 1 Watts (CW)
 VSWP < 1 2:1
 - 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 6 dB Fixed Attenuator PE7161-6 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		6		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: 6 dB Fixed Attenuator, SMA Male to SMA Female Brass Tri-Metal Body Rated to 1 Watt Up to 2 GHz PE7161-6

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		
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. RoHS Compliant	.com for current document)
REACH Compliant	12/17/2015
Distinction of Others Date	

Plotted and Other Data

Notes:

6 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/6db-fixed-sma-female-sma-male-1-watt-attenuator-pe7161-6-p.aspx

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PE7161-6 CAD Drawing 6 dB Fixed Attenuator, SMA Male to SMA Female Brass Tri-

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P/N ATTEN. FIGURE	PE7161-1 1 dB 1	PE7161-2 2 dB 1	PE7161-3 3 dB 1	PE7161-4 4 dB 1	PE7161-5 5 dB 1	PE7161-6 6 dB 1	PE7161-7 7 dB 1	PE7161-8 8 dB 1	PE7161-9 9 dB 1	PE7161-10 10 dB 1	PE7161-12 12 dB 1	PE7161-15 15 dB 1	PE7161-20 20 dB 1	PE7161-30 30 dB 2	PE7161-40 40 dB 2		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].	030116 SCALE N/A SIZE A 3045
-	•							1/4-36				Î				FEMALE	DWG TITLE NOTES: 1. UNLESS OT 2. ALL SPECIF 3. DIMENSION	FSCM NO. 53919 CAD FILE
	0.86±0.03 [21.8±0.8]				5/16 HEX	-xx				FIGURE 1	200400	[25.1±0.8]		PE7	161	SMA FIGURE 2 SMA FIGURE 2 SMA FIGURE 2 BECIMAL .XX ±0.005 .XX ±0.005 .XX ±0.005 .XX ±0.005 .XX ±0.005 .XX ±0.005	Paternack 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