

20 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 0.5 Watts Up to 40 GHz



# RF Fixed Attenuators Technical Data Sheet

### **Features**

- DC to 40 GHz Frequency Range
- Attenuation 20±1.8 dB

### **Applications**

- Instrumentation
- Precision measurements

- Max Power 0.5 Watt (CW)
- VSWR < 1.5:1</li>
- 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 20 dB Fixed Attenuator PE7AP412-20 is rated to 0.5 Watts and operates from DC to 40 GHz. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors and is also REACH and RoHS compliant.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
VSWR			1.5:1	
Input Power, CW			0.5	Watts
derated linearly to 0.05W	at +125°C			

#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 18	18 to 26.5	26.5 to 40			GHz
VSWR, Max	1.3:1	1.5:1	1.5:1			
Attenuation Accuracy, Typ	0.6	0.7	1.8			dB

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, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 0.5 Watts Up to 40 GHz PE7AP412-20

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

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# PE7AP412-20



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## PE7AP412-20

Mechanical	Specifications
0:	

Size Length Width/Diameter Weight Body Material and Plating

0.87 in [22.1 mm] 0.315 in [8 mm] 0.0147 lbs [6.67 g] Passivated Stainless Steel

Configuration Design

Package Style

Fixed

Connectorized Module

#### Connectors

Description	Connector 1	Connector 2	
Туре	2.92mm Male	2.92mm Female	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	MIL-PRF-39012	MIL-PRF-39012	
Hex Size	5/16 inch		
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	

Mechanical Specification Notes:

The connectors use high temperature plastic bead dielectric.

#### **Environmental Specifications**

Temperature Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

20 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 0.5 Watts Up to 40 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-2.92mm-male-2.92mm-female-0.5-watts-attenuator-pe7ap412-20-p.aspx

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# PE7AP412-20 CAD Drawing

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