

1 dB Fixed Attenuator, SMA Male to SMA Female  
Stainless Steel Body Rated to 2 Watts, DC to 12 GHz



## PE7466-1

### Features

- DC to 12 GHz Frequency Range
- SMA Connectorized Design
- Attenuation 1 dB  $\pm 1$  dB
- Max Power 2 Watts (CW)
- Max VSWR of 1.35:1

### 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 1 dB Fixed Attenuator PE7466-1 is rated to and operates from DC to 12 GHz. The versatile coaxial package uses SMA female to SMA male connectors.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12	GHz
Impedance		50		Ohms
Nominal Attenuation		1		dB
Attenuation Accuracy		0.5		dB
VSWR			1.35:1	
Input Power, CW			2	Watts

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 5	5 to 10	10 to 12		GHz
VSWR, Max	1.15:1	1.25:1	1.35:1	1.35:1		
Attenuation Accuracy, Typ	0.2	0.3	0.5	1		dB

### Mechanical Specifications

#### Size

Length	0.969 in [24.61 mm]
Width/Diameter	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.015 lbs [6.8 g]
Body Material and Plating	Passivated Stainless Steel

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### Configuration

Design Fixed, Bi-Directional  
Package Style Conectorized

### Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMA Male
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

### Environmental Specifications

**Temperature**  
Operating Range -50 to +80 deg C

### Compliance Certifications

(see product page for current document)

### Plotted and Other Data

Notes:

### Typical Performance Data

1 dB Fixed Attenuator, SMA Male to SMA Female Stainless Steel Body Rated to 2 Watts, DC to 12 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1 dB Fixed Attenuator, SMA Male to SMA Female Stainless Steel Body Rated to 2 Watts, DC to 12 GHz PE7466-1](#)

URL: <https://www.pasternack.com/1db-fixed-sma-female-sma-male-2-watts-attenuator-pe7466-1-p.aspx>

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PE7466-1 CAD Drawing

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