



## 2 dB Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz

### RF Fixed Attenuators Technical Data Sheet

PE7005-2

#### Features

- Bidirectional
- DC to 18 GHz Frequency Range
- Attenuation  $2 \pm 0.3$  dB
- Max Power 2 Watts (CW)
- VSWR  $< 1.35:1$

#### 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 2 dB Fixed Attenuator PE7005-2 is rated to 2 Watts and operates from DC to 18 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		18	GHz
Impedance		50		Ohms
Nominal Attenuation		2		dB
Attenuation Accuracy		$\pm 0.3$		dB
VSWR			1.35:1	
Input Power, CW derated linearly to 0.5W at +125°C			2	Watts
Input Power, Peak 5 $\mu$ s pulse, 0.05% duty cycle			250	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 dB Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz PE7005-2](#)



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**Mechanical Specifications**

**Size**

Length	0.85 in [21.59 mm]
Width/Diameter	0.312 in [7.92 mm]
Weight	0.013 lbs [5.9 g]
Body Material and Plating	Passivated Stainless Steel

**Configuration**

Design	Fixed, Bidirectional
Package Style	Connectorized Module

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Connector Specification	MIL-STD-348	MIL-STD-348
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

**Environmental Specifications**

**Temperature**

Operating Range	-65 to +125 deg C
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**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant	
REACH Compliant	12/17/2015

**Plotted and Other Data**

**Notes:**

2 dB Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 dB Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz PE7005-2](http://www.Pasternack.com/2db-fixed-sma-female-sma-male-2-watts-attenuator-pe7005-2)

URL: <http://www.pasternack.com/2db-fixed-sma-female-sma-male-2-watts-attenuator-pe7005-2-p.aspx>

PE7005-2 CAD Drawing

2 dB Fixed Attenuator, SMA Male to SMA Female Passivated  
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P/N	ATTEN.	FIGURE
PE7005-1	1 dB	1
PE7005-2	2 dB	1
PE7005-3	3 dB	1
PE7005-4	4 dB	1
PE7005-5	5 dB	1
PE7005-6	6 dB	1
PE7005-7	7 dB	1
PE7005-8	8 dB	1
PE7005-9	9 dB	1
PE7005-10	10 dB	1
PE7005-12	12 dB	1
PE7005-15	15 dB	2
PE7005-20	20 dB	2
PE7005-30	30 dB	2
PE7005-40	40 dB	2

STANDARD TOLERANCES
.X ±0.2
.XX ±0.1
.XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

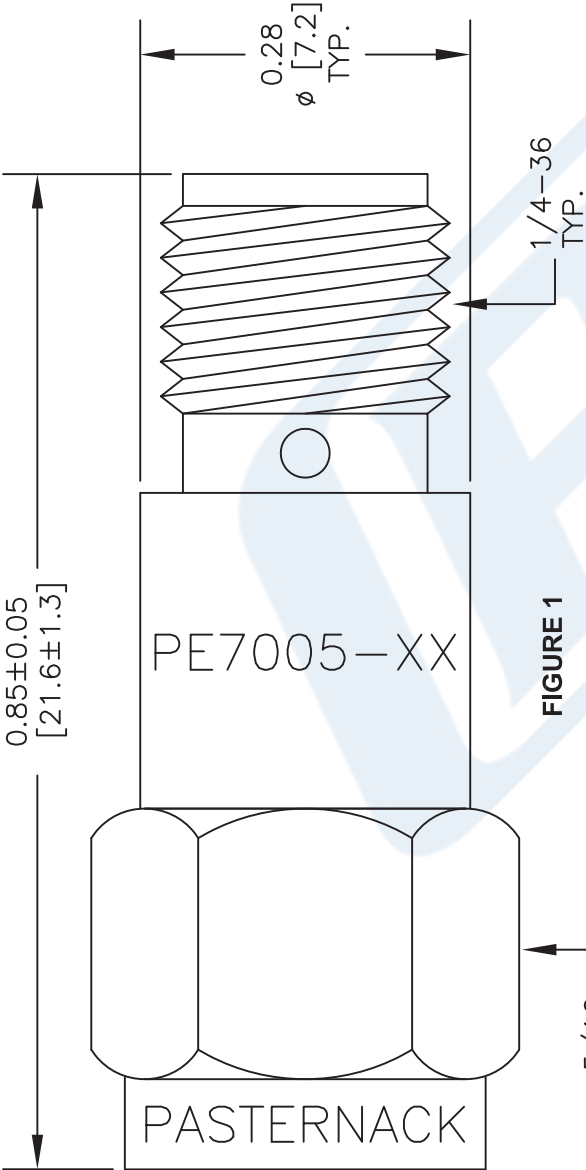


FIGURE 1

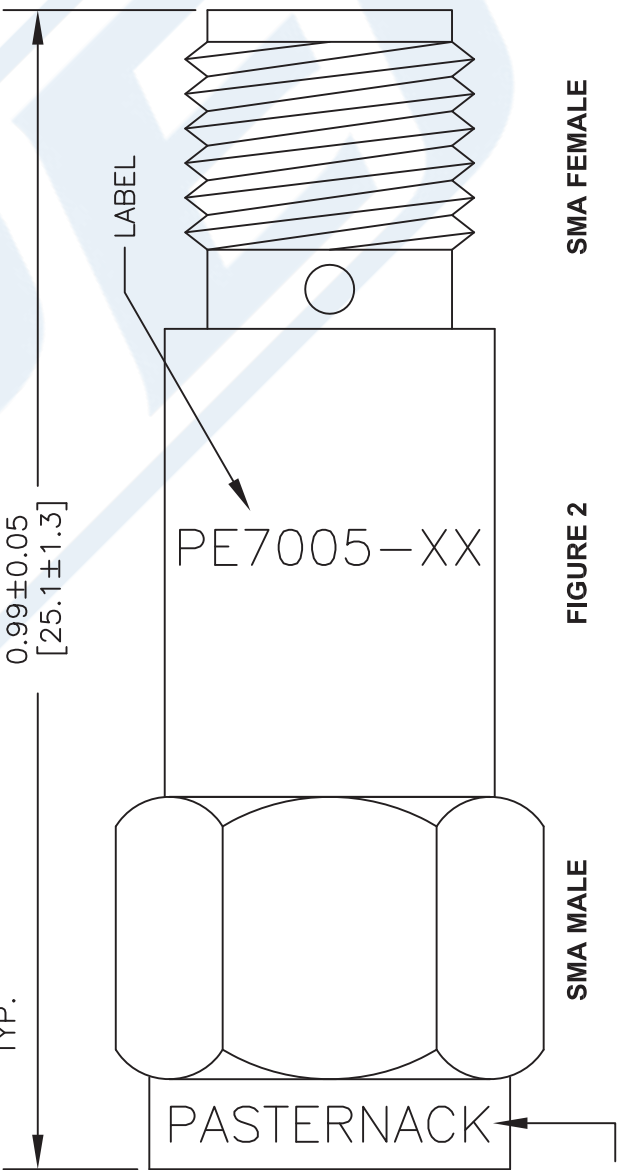


FIGURE 2

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].

DWG TITLE  
**PE7005**

FSCM NO. 53919

CAD FILE 022516

SCALE N/A

SIZE A

3045

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