



## 30 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

PE7046-30

#### Features

- Bidirectional
- DC to 40 GHz Frequency Range
- Attenuation 30±1 dB
- Max Power 0.5 Watts (CW)
- VSWR < 1.4:1

#### 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 30 dB Fixed Attenuator PE7046-30 is rated to 0.5 Watt 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		30		dB
Attenuation Accuracy		±1		dB
VSWR			1.4:1	
Input Power, CW			0.5	Watts
derated linearly to 0.1W at +125°C				

#### 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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [30 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 0.5 Watts Up to 40 GHz PE7046-30](#)



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### Configuration

Design Fixed, Bidirectional  
Package Style Connectorized Module

### Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Hex Size	5/16 in.	
Torque	8 in-lbs 0.9 Nm	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Mechanical Specification Notes:  
2.92mm connectors mate with all SMA, K, and 3.5mm series connectors.

### Environmental Specifications

#### Temperature

Operating Range -65 to +125 deg C

### 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:

30 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% availability and are part of the broadest selection in the industry.

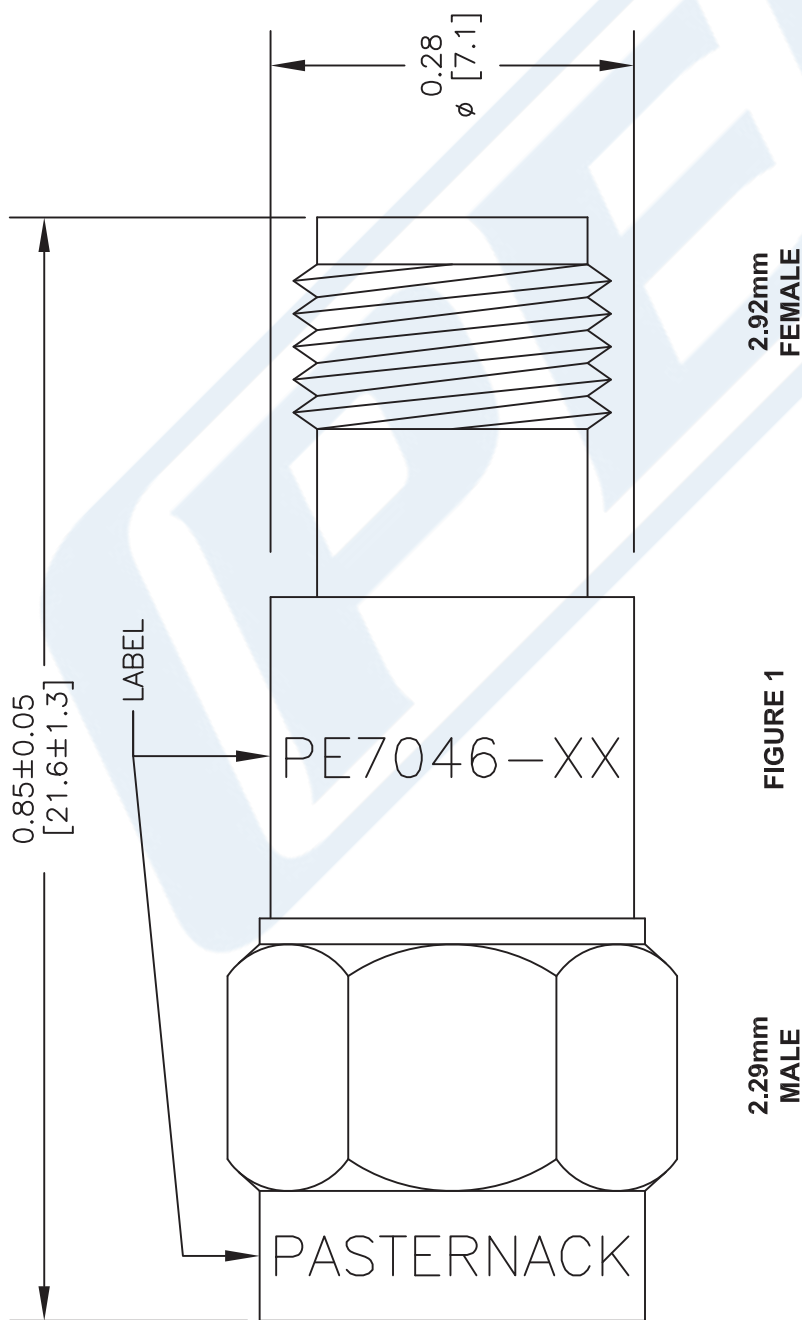
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URL: <http://www.pasternack.com/30db-fixed-2.92mm-male-2.92mm-female-0.5-watts-attenuator-pe7046-30-p.aspx>

# PE7046-30 CAD Drawing

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

P/N	ATTEN.	FIGURE
PE7046-1	1 dB	1
PE7046-2	2 dB	1
PE7046-3	3 dB	1
PE7046-6	6 dB	1
PE7046-10	10 dB	1
PE7046-20	20 dB	1
PE7046-30	30 dB	1



#### STANDARD TOLERANCES

.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

**PE7046**

FSCM NO. 53919

CAD FILE 030916

SCALE N/A

SIZE A

3045

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].