



10 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

PE7046-10

Features

- Bidirectional
- DC to 40 GHz Frequency Range
- Attenuation 10±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 10 dB Fixed Attenuator PE7046-10 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 | | 10 | | 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: [10 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 0.5 Watts Up to 40 GHz PE7046-10](#)



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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 for current document)

RoHS Compliant
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

10 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 0.5 Watts Up to 40 GHz PE7046-10](http://www.Pasternack.com/10db-fixed-2.92mm-male-2.92mm-female-0.5-watts-attenuator-pe7046-10)

URL: <http://www.pasternack.com/10db-fixed-2.92mm-male-2.92mm-female-0.5-watts-attenuator-pe7046-10-p.aspx>

PE7046-10 CAD Drawing

10 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated
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| 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 |

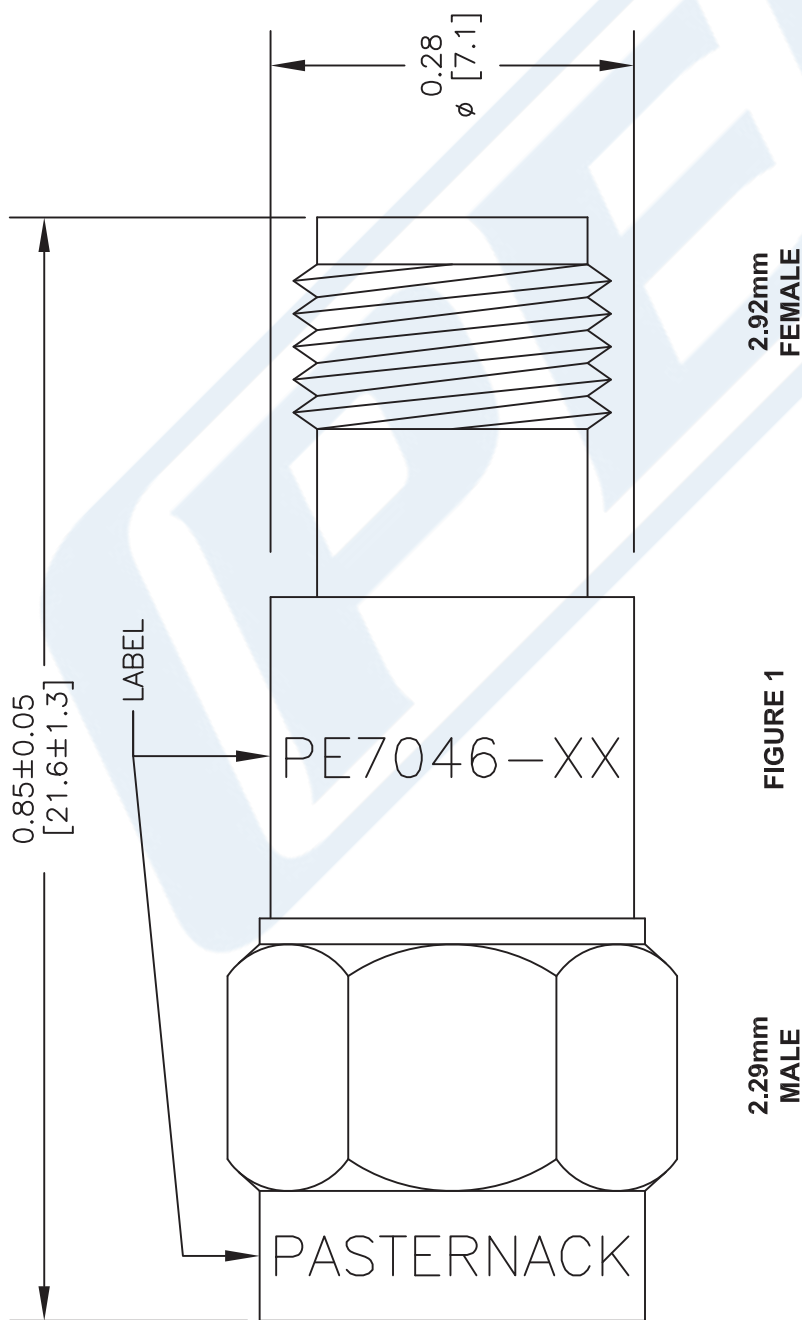


FIGURE 1

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

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].

CAD FILE 030916

SCALE N/A

SIZE A

3045