

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

### PE7429-3



#### Features

- Bidirectional
- DC to 40 GHz Frequency Range
- Attenuation 3 dB Typical
- Max Power 0.5 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 3 dB Fixed Attenuator PE7429-3 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            |         | 3       |         | dB    |
| Attenuation Accuracy           |         |         | ±1      | dB    |
| VSWR                           |         |         | 1.35:1  |       |
| Input Power, CW                |         |         | 0.5     | Watts |
| Input Power, Peak              |         |         | 200     | Watts |
| 5μs pulse width, 1% duty cycle |         |         |         |       |

#### Mechanical Specifications

##### Size

|                           |                            |
|---------------------------|----------------------------|
| Length                    | 0 in [0 mm]                |
| Width/Diameter            | 0 in [0 mm]                |
| Height                    | 0 in [0 mm]                |
| Weight                    | 2.05 lbs [929.86 g]        |
| Body Material and Plating | Passivated Stainless Steel |

##### Configuration

|        |       |
|--------|-------|
| Design | Fixed |
|--------|-------|

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## PE7429-3

### Connectors

| Description                       | Connector 1                | Connector 2                |
|-----------------------------------|----------------------------|----------------------------|
| Type                              | 2.92mm Male                | 2.92mm Female              |
| Contact Material and Plating      | Beryllium Copper, Gold     | Beryllium Copper, Gold     |
| Coupling Nut Material and Plating | Stainless Steel            |                            |
| Body Material and Plating         | Passivated Stainless Steel | Passivated Stainless Steel |

### Environmental Specifications

#### Temperature

Operating Range -55 to +125 deg C

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

### Typical Performance Data

3 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 0.5 Watts Up to 40 GHz PE7429-3](#)

URL: <https://www.pasternack.com/3db-fixed-2.92mm-male-2.92mm-female-0.5-watts-attenuator-pe7429-3-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

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1.14  
[29]

0.31  
[8]

2.92mm MALE

2.92mm FEMALE

| REV. | DESCRIPTION     | DATE       | APPROVED |
|------|-----------------|------------|----------|
| A    | INITIAL RELEASE | 11/23/2021 | SPONG    |

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an INFINITI brand

Pasternack Enterprises, Inc.  
P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: www.pasternack.com  
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

ITEM NO. PE7429-3

SIZE A

CAGE CODE 53919

DRAWN BY DMAY

REVISIONS

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE IN INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS  
XX = ±.02 [51] DECIMALS  
XXX = ±.005 [13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

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