



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

PE7429-30

**Features**

- Bidirectional
- DC to 40 GHz Frequency Range
- Attenuation 30 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 30 dB Fixed Attenuator PE7429-30 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		30		dB
Attenuation Accuracy		1		dB
VSWR			1.35:1	
Input Power, CW			0.5	Watts
Input Power, Peak 5µs pulse width, 1% duty cycle			200	Watts

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 PE7429-30](#)



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

PE7429-30

### Mechanical Specifications

#### Size

Length	0 in [0 mm]
Width/Diameter	0 in [0 mm]
Height	0 in [0 mm]
Weight	1.15 lbs [521.63 g]
Body Material and Plating	Passivated Stainless Steel

#### Configuration

Design	Fixed
--------	-------

#### 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:

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 99.4% availability and are part of the broadest selection in the industry.

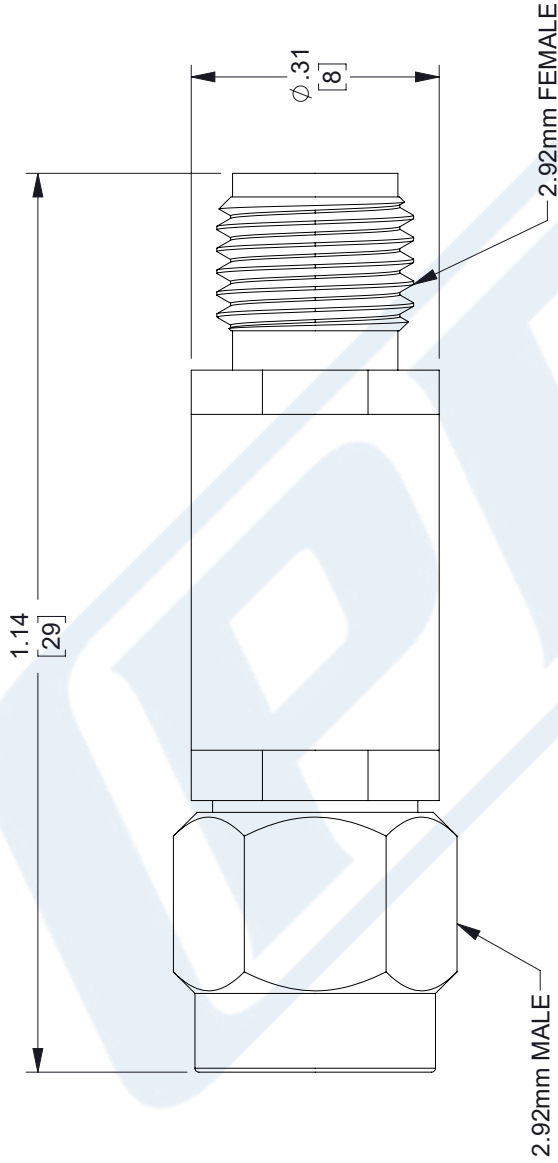
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [30 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 0.5 Watts Up to 40 GHz PE7429-30](#)

URL: <https://www.pasternack.com/30db-fixed-2.92mm-male-2.92mm-female-0.5-watts-attenuator-pe7429-30-p.aspx>

# PE7429-30 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

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



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2</td> <td>[5.08]</td> <td>FRACTIONS</td> </tr> <tr> <td>.XX = ±.02</td> <td>[.51]</td> <td>±.1/32</td> </tr> <tr> <td>.XXX = ±.005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>L ≤ 12</td> <td>[305]</td> <td>= +1 [25] / -0</td> </tr> <tr> <td>12 [305] &lt; L ≤ 60</td> <td>[1524]</td> <td>= +2 [51] / -0</td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120</td> <td>[3048]</td> <td>= +4 [102] / -0</td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300</td> <td>[7620]</td> <td>= +6 [152] / -0</td> </tr> <tr> <td>300 [7620] &lt; L</td> <td></td> <td>= +5%L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X = ±.2	[5.08]	FRACTIONS	.XX = ±.02	[.51]	±.1/32	.XXX = ±.005	[.13]	ANGLES ± 1°	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%L / -0	<p><b>PE PASTERNAK</b> an INFINITI<sup>®</sup> brand</p> <p>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</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
	.X = ±.2	[5.08]	FRACTIONS																							
.XX = ±.02	[.51]	±.1/32																								
.XXX = ±.005	[.13]	ANGLES ± 1°																								
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%L / -0																								
<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY DMAY</p>	<p>ITEM NO. PE7429-30</p>	<p>REV A</p>																								

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.