

# 30 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 2 Watts Up to 40 GHz



## **RF Fixed Attenuators Technical Data Sheet**

PE7090-30

### **Features**

- Bidirectional
- DC to 40 GHz Frequency Range
- Attenuation 30±1 dB

- Max Power 2 Watts (CW)
- VSWR < 1.4:1</li>

## **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 PE7090-30 is rated to 2 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
VSWR			1.4:1	
Input Power, CW			2	Watts
danata di Parambuta O 4107 at 14	0500			

derated linearly to 0.1W at +125°C

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 18	18 to 26.5	26.5 to 40			GHz
VSWR, Max	1.3:1	1.4:1	1.4:1			
Attenuation Accuracy, Typ	±0.6	±0.6	±1			dB

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 2 Watts Up to 40 GHz PE7090-30

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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### **Mechanical Specifications**

Size

 Length
 0.88 in [22.35 mm]

 Width/Diameter
 0.312 in [7.92 mm]

 Weight
 0.013 lbs [5.9 q]

Body Material and Plating Passivated Stainless Steel

Configuration

Design Fixed, Bidirectional Package Style Connectorized Module

#### Connectors

Connector 1	Connector 2		
2.92mm Male	2.92mm Female		
Beryllium Copper, Gold	Beryllium Copper, Gold		
Passivated Stainless Steel			
Passivated Stainless Steel	Passivated Stainless Steel		
	2.92mm Male Beryllium Copper, Gold Passivated Stainless Steel		

Mechanical Specification Notes:

The 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:

30 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Passivated Stainless Steel Body Rated to 2 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-2-watts-attenuator-pe7090-30-p.aspx

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# PE7090-30 CAD Drawing

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