

30 dB Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 6 GHz



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

### PE7091-30

### Features

- Bidirectional
- DC to 6 GHz Frequency Range
- Attenuation 30±0.9 dB

### **Applications**

 Instrumentation//Precision measurements//Prototyping and Max Power 2 Watts (CW)

VSWR < 1.35:1</li>

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 PE7091-30 is rated to 2 Watts and operates from DC to 6 GHz. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
Attenuation Accuracy		0.9		dB
VSWR			1.35:1	
Input Power, CW			2	Watts
derated linearly from 2W	@ 25°C to 1.1W @ 85°C			

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 4	4 to 6				GHz
VSWR, Max	1.2:1	1.35:1				

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, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 6 GHz PE7091-30

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

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### PE7091-30

Mechanical	Specifications

Size Length Width/Diameter Weight Body Material and Plating

0.97 in [24.64 mm] 0.312 in [7.92 mm]

0.015 lbs [6.8 g] Passivated Stainless Steel

Fixed, Bidirectional Connectorized Module

#### Connectors

Configuration

Package Style

Design

Connector 1	Connector 2	
SMA Male	SMA Female	
MIL-STD-348	MIL-STD-348	
Beryllium Copper, Gold	Beryllium Copper, Gold	
Passivated Stainless Steel		
5/16 Inch		
8 in-lbs 0.9 Nm		
Passivated Stainless Steel	Passivated Stainless Steel	
	SMA Male MIL-STD-348 Beryllium Copper, Gold Passivated Stainless Steel 5/16 Inch 8 in-lbs 0.9 Nm	

### **Environmental Specifications**

Temperature Operating Range

-20 to +85 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

30 dB Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 6 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.

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URL: https://www.pasternack.com/30db-fixed-sma-male-sma-female-2-watts-attenuator-pe7091-30-p.aspx

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# PE7091-30 CAD Drawing

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