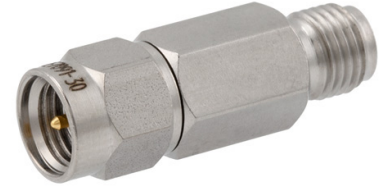


30 dB Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 6 GHz



PE7091-30

Features

- Bidirectional
- DC to 6 GHz Frequency Range
- Attenuation 30±0.9 dB
- Max Power 2 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 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

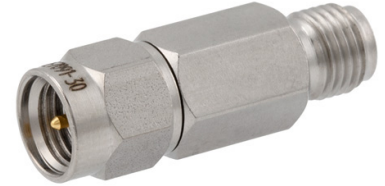
Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 6				GHz
VSWR, Max	1.2:1	1.35:1				

Mechanical Specifications

Size

Length	0.97 in [24.64 mm]
Width/Diameter	0.312 in [7.92 mm]
Height	0 in [0 mm]
Weight	0.015 lbs [6.8 g]
Body Material and Plating	Passivated Stainless Steel

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



PE7091-30

Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized Module

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Connector Specification	MIL-STD-348	MIL-STD-348
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 Inch	
Torque	8 in-lbs 0.9 Nm	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range	-20 to +85 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

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.

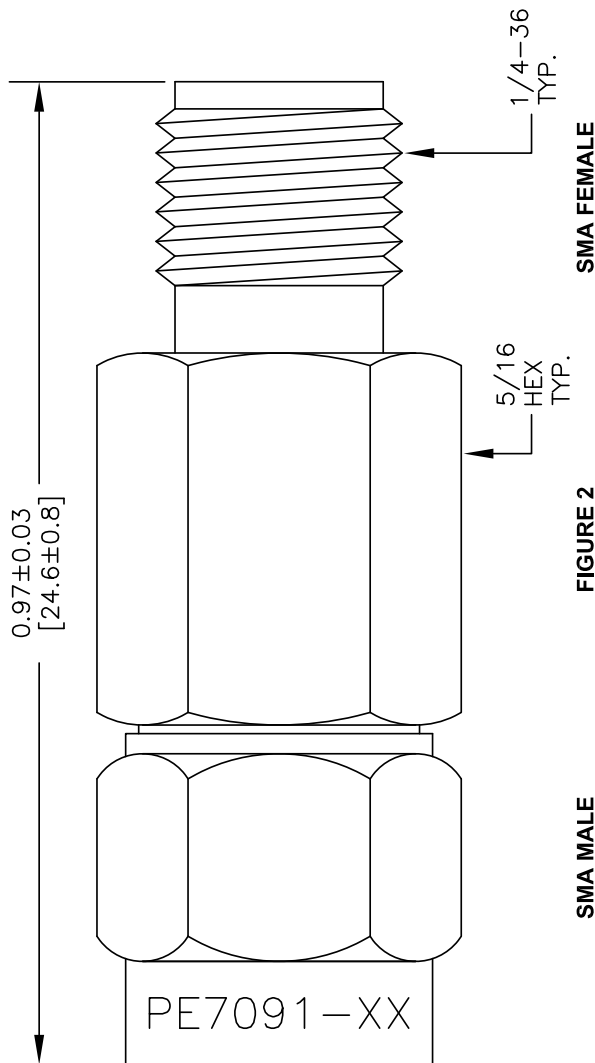
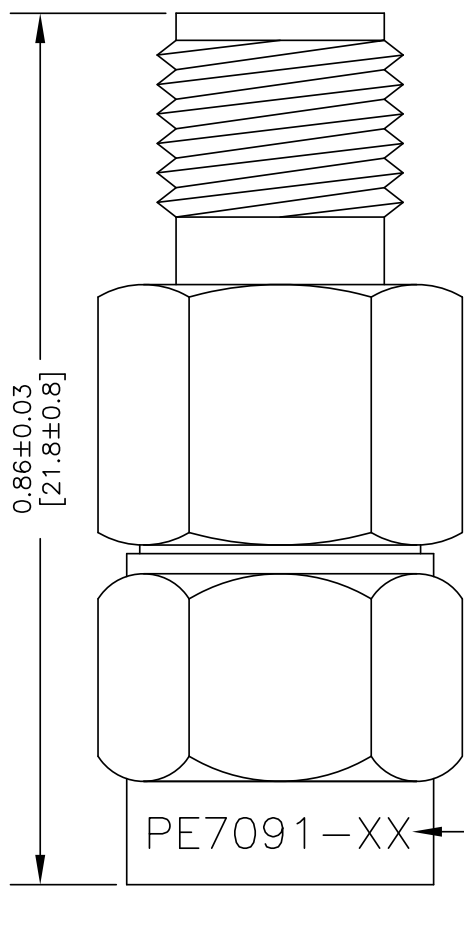
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [30 dB Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 6 GHz PE7091-30](#)

URL: <https://www.pasternack.com/30db-fixed-sma-male-sma-female-2-watts-attenuator-pe7091-30-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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30 dB Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Rated to 2 Watts Up to 6 GHz



P/N	ATTEN.	FIGURE
PE7091-0	0 dB	1
PE7091-1	1 dB	1
PE7091-2	2 dB	1
PE7091-3	3 dB	1
PE7091-4	4 dB	1
PE7091-5	5 dB	1
PE7091-6	6 dB	1
PE7091-7	7 dB	1
PE7091-10	10 dB	1
PE7091-12	12 dB	1
PE7091-15	15 dB	1
PE7091-20	20 dB	1
PE7091-30	30 dB	2
PE7091-40	40 dB	2

<u>STANDARD TOLERANCES</u>	
.XX	±0.01
.XXX	±0.005

***STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES**

NOTES:

- 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].

DWG TITLE

PE7091

SMA MALE

FIGURE 2

SMA FEMALE

Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

FSCM NO. 53919

022916

SCALE N/A

SIZE A

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