

12 dB Fixed Attenuator, 2.4mm Male to 2.4mm Female Passivated Stainless Steel Body Rated to 1 Watt Up to 50 GHz



RF Fixed Attenuators Technical Data Sheet

PE7089-12

Max Power 1 Watts (CW)

Bidirectional

Features

- DC to 50 GHz Frequency Range
- Attenuation 12dB Typical

Applications

- Instrumentation
- Precision measurements

VSWR < 1.75:1

- 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 12 dB Fixed Attenuator PE7089-12 is rated to 1 Watt and operates from DC to 50 GHz. The versatile coaxial package uses 2.4mm male to 2.4mm female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
Impedance		50		Ohms
Nominal Attenuation		12		dB
VSWR			1.75:1	
Input Power, CW			1	Watt
derated linearly from 1W	@ 25°C to .1W @ 100°C			

Specifications by Frequency

F1	F2	F3	F 4	F5	Units
DC to 26.5	26.5 to 40	40 to 50			GHz
1.35:1	1.6:1	1.75:1			
±0.75	±1.25	±2			dB
	DC to 26.5 1.35:1	DC to 26.5 26.5 to 40 1.35:1 1.6:1	DC to 26.5 26.5 to 40 40 to 50 1.35:1 1.6:1 1.75:1	DC to 26.5 26.5 to 40 40 to 50 1.35:1 1.6:1 1.75:1	DC to 26.5 26.5 to 40 40 to 50 1.35:1 1.6:1 1.75:1

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 12 dB Fixed Attenuator, 2.4mm Male to 2.4mm Female Passivated Stainless Steel Body Rated to 1 Watt Up to 50 GHz PE7089-12

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

ISO 9001 : 2008 Registered



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Mechanical	Specifications

Size Length Width/Diameter Weight Body Material and Plating

0.87 in [22.1 mm] 0.312 in [7.92 mm]

0.012 lbs [5.44 g] Passivated Stainless Steel

Fixed, Bidirectional Connectorized Module

Connectors

Configuration

Package Style

Design

Description	Connector 1	Connector 2
Туре	2.4mm Male	2.4mm Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-PRF-39012	MIL-PRF-39012
Coupling Nut Material and Plating	Passivated Stainless Steel	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Mechanical Specification Notes:

The connectors use high temperature plastic bead dielectric.

Environmental Specifications

Temperature Operating Range Storage Range

-55 to +100 deg C -55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

12 dB Fixed Attenuator, 2.4mm Male to 2.4mm Female Passivated Stainless Steel Body Rated to 1 Watt Up to 50 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/12db-fixed-2.4mm-male-2.4mm-female-1-watt-attenuator-pe7089-12-p.aspx

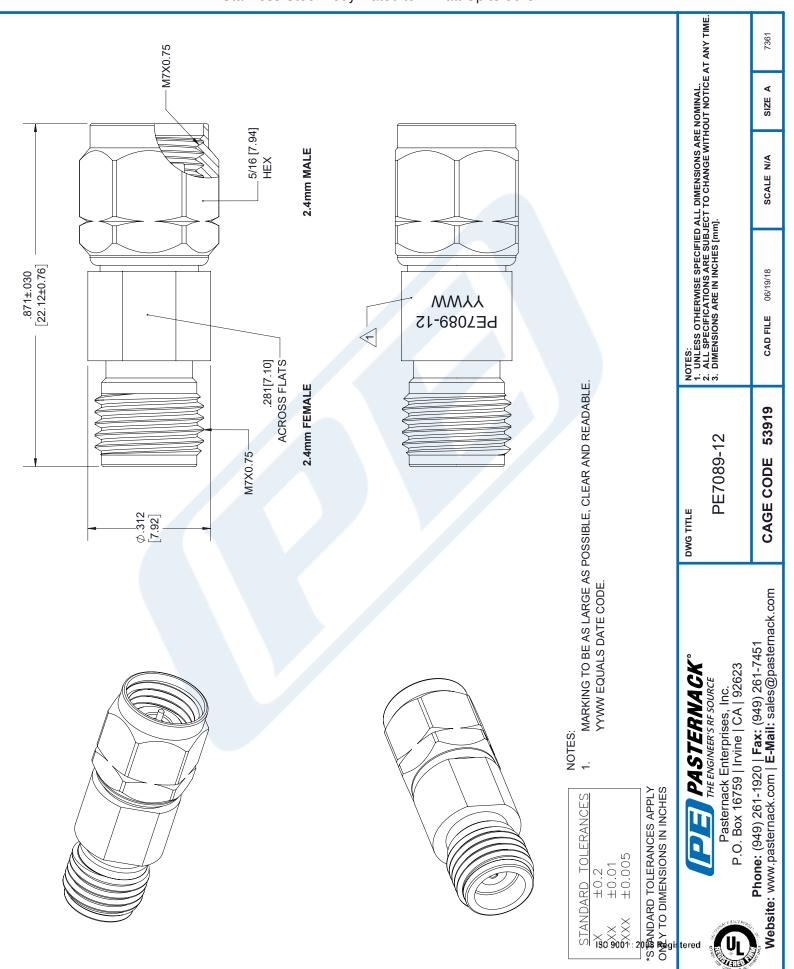
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PE7089-12 CAD Drawing

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