

# 1 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz



### RF Fixed Attenuators Technical Data Sheet

PE7004-1

#### **Features**

- Bidirectional
- DC to 18 GHz Frequency Range
- Attenuation 1±0.3 dB

- Max Power 2 Watts (CW)
- VSWR < 1.35:1</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 1 dB Fixed Attenuator PE7004-1 is rated to 2 Watts and operates from DC to 18 GHz. The versatile coaxial package uses N male to N female connectors and is also REACH and RoHS compliant.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		1		dB
Attenuation Accuracy		±0.3		dB
VSWR			1.35:1	
Input Power, CW			2	Watts
derated linearly to 0.5W at +13	25°C			
Input Power, Peak			250	Watts
5µs pulse, 0.05% duty cycle				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz PE7004-1

ISO 9001 : 2008 Registered

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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#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 4	4 to 8	8 to 12.4	12.4 to 18		GHz
VSWR, Max	1.15:1	1.2:1	1.25:1	1.35:1		

### **Mechanical Specifications**

Size

Length Width/Diameter

Weight

Body Material and Plating

Configuration

Package Style

1.76 in [44.7 mm] 0.83 in [21.08 mm]

0.15 lbs [68.04 g]

Passivated Stainless Steel

Design

Fixed, Bidirectional Connectorized Module

#### Connectors

Connector 1	Connector 2	
N Male	N Female	
MIL-STD-348	MIL-STD-348	
Beryllium Copper, Gold	Beryllium Copper, Gold	
Passivated Stainless Steel	Passivated Stainless Steel	
	N Male MIL-STD-348 Beryllium Copper, Gold	

## **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:

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1 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 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/1db-fixed-n-female-n-male-2-watts-attenuator-pe7004-1-p.aspx

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# PE7004-1 CAD Drawing

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