



20 dB Fixed Attenuator, 75 Ohm N Male to 75 Ohm N Female
 Brass Nickel Body Rated to 1 Watt Up to 1,000 MHz

RF Fixed Attenuators Technical Data Sheet

PE7029-20

Features

- Bidirectional
- DC to 1 GHz Frequency Range
- Attenuation 20±1 dB
- Max Power 1 Watt (CW)
- VSWR < 1.2:1

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 20 dB Fixed Attenuator PE7029-20 is rated to 1 Watt and operates from DC to 1,000 MHz. 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 | | 1,000 | MHz |
| Impedance | | 75 | | Ohms |
| Nominal Attenuation | | 20 | | dB |
| Attenuation Accuracy | | ±1 | | dB |
| VSWR | | | 1.2:1 | |
| Input Power, CW | | | 1 | Watts |

Mechanical Specifications

Size

| | |
|---------------------------|---------------------|
| Length | 2.24 in [56.9 mm] |
| Width/Diameter | 0.83 in [21.08 mm] |
| Weight | 0.137 lbs [62.14 g] |
| Body Material and Plating | Brass, Nickel |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [20 dB Fixed Attenuator, 75 Ohm N Male to 75 Ohm N Female Brass Nickel Body Rated to 1 Watt Up to 1,000 MHz PE7029-20](#)



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Configuration

Design Fixed, Bidirectional
Package Style Connectorized Module

Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|---------------|------------------------|
| Type | N Male | N Female |
| Contact Material and Plating | Brass, Gold | Beryllium Copper, Gold |
| Dielectric Type | Teflon | Teflon |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |

Environmental Specifications

Temperature

Operating Range -30 to +70 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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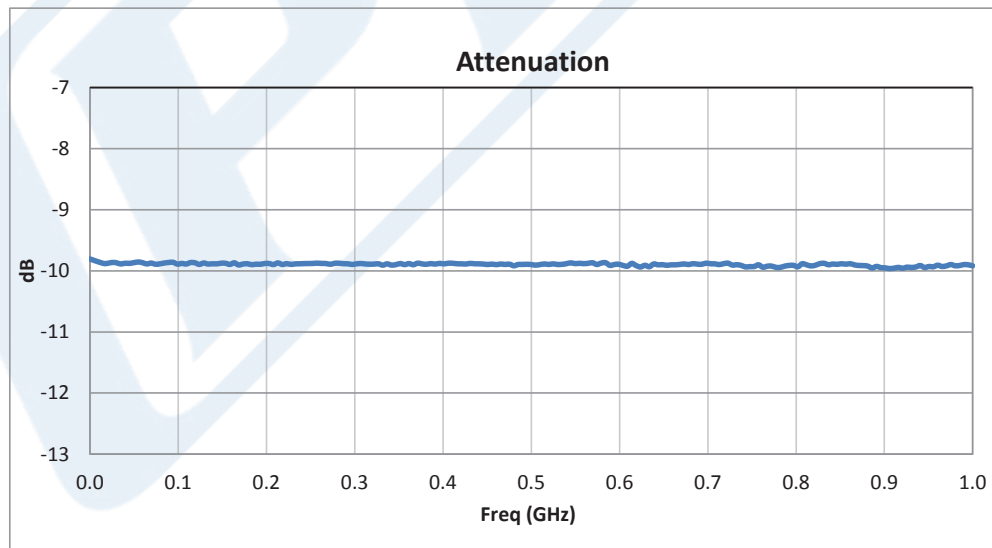
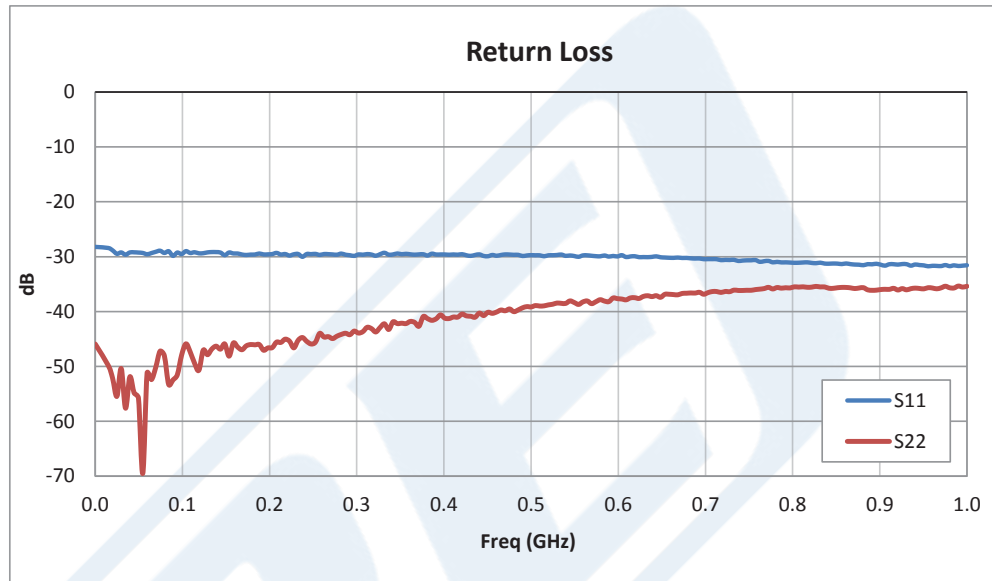


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Typical Performance Data



Typical performance of PE7029 Series' 10 dB model

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20 dB Fixed Attenuator, 75 Ohm N Male to 75 Ohm N Female Brass Nickel Body Rated to 1 Watt Up to 1,000 MHz 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.

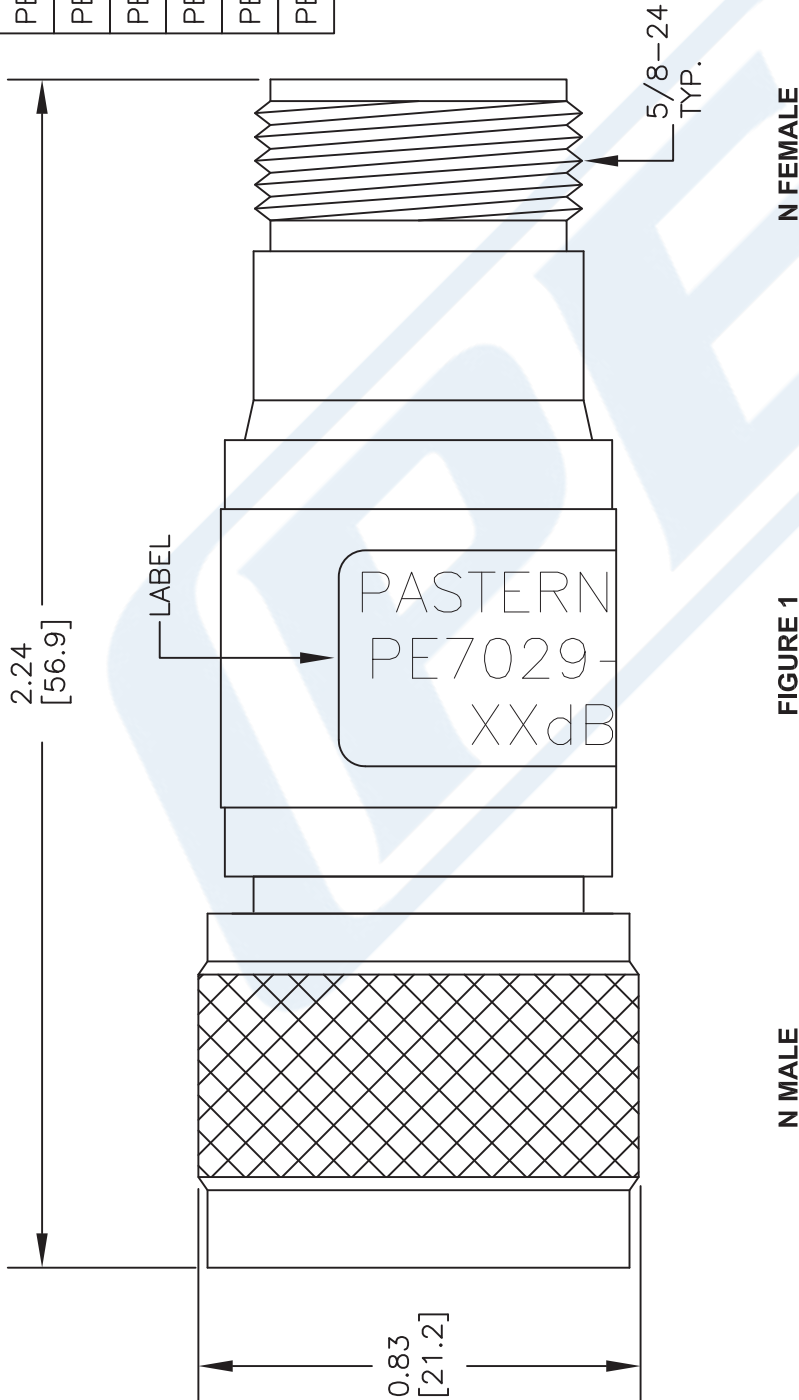
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PE7029-20 CAD Drawing

20 dB Fixed Attenuator, 75 Ohm N Male to 75 Ohm N Female
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| P/N | ATTEN. | FIGURE |
|-----------|--------|--------|
| PE7029-1 | 1 dB | 1 |
| PE7029-2 | 2 dB | 1 |
| PE7029-3 | 3 dB | 1 |
| PE7029-6 | 6 dB | 1 |
| PE7029-10 | 10 dB | 1 |
| PE7029-20 | 20 dB | 1 |
| PE7029-30 | 30 dB | 1 |



STANDARD TOLERANCES
 .X ±0.2
 .XX ±0.1
 .XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

PASTERNACK
 PE7029-XX
 XXdB

PART LABEL

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
PE7029

FSCM NO. 53919

CAD FILE 022616

SCALE N/A

SIZE A

3045

PE PASTERNACK
 THE ENGINEER'S RF SOURCE

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