

## 10 dB Fixed Attenuator, N Male To N Female Brass Nickel Body Rated To 1 Watt Up To 2 GHz



### PE7163-10

#### Features

#### Applications

#### 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 10 dB Fixed Attenuator PE7163-10 is rated to 1 Watt and operates from DC to 2 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH and RoHS compliant.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
VSWR			1.25:1	
Input Power, CW			1	Watt

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2					GHz
Attenuation Accuracy, Typ	0.5					dB

#### Mechanical Specifications

##### Size

Length	1.76 in [44.7 mm]
Width/Diameter	0.83 in [21.08 mm]
Height	0 in [0 mm]
Weight	0.158 lbs [71.67 g]
Body Material and Plating	Brass, Nickel

##### Configuration

Design	Fixed, Bidirectional
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### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Gold	Gold
Outer Conductor Material and Plating		Brass, Nickel
Coupling Nut Material and Plating	Brass, Nickel	
Body Material and Plating	Brass, Nickel	

### Environmental Specifications

#### Temperature

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

### Typical Performance Data

10 dB Fixed Attenuator, N Male To N Female Brass Nickel Body Rated To 1 Watt Up To 2 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: [10 dB Fixed Attenuator, N Male To N Female Brass Nickel Body Rated To 1 Watt Up To 2 GHz PE7163-10](#)

URL: <https://www.pasternack.com/10db-fixed-n-female-n-male-1-watt-attenuator-pe7163-10-p.aspx>

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