



1dB RF fixed attenuator 10W, DC to 18GHz, N-type male to female

RF Fixed Attenuators Technical Data Sheet

PE7607-1

Features

- Bidirectional
- DC to 18 GHz Range
- Attenuation 1 +/- 1.0 dB
- 10 Watts Average Input Power
- VSWR <1.40:1

Applications

- Precision Measurements
- Production Systems
- Instrumentation
- Prototyping and Characterization

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 attenuators 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 Attenuators PE7605-1 is rated to 10 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
VSWR			1.4:1	
Input Power, CW			10	Watts
Input Power, Peak 5µs pulse w/ 0.4% duty cycle			1	kWatts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1dB RF fixed attenuator 10W, DC to 18GHz, N-type male to female PE7607-1](#)



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Mechanical Specifications

Size

Length	3.03149 in [77 mm]
Width/Diameter	1.49606 in [38 mm]
Height	1.49606 in [38 mm]
Weight	0.155 lbs [70.31 g]
Body Material and Plating	Black Anodized Aluminum

Configuration

Design	Fixed, Bidirectional
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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

Operating Range	+125 to -55 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

1dB RF fixed attenuator 10W, DC to 18GHz, N-type male to female 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:

PE7607-1 CAD Drawing

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