

30 dB Fixed Attenuator, N Male to N Female Aluminum Black Anodized Body Rated to 100 Watts Up to 10 GHz



PE7581-30

Features

- DC to 10 GHz Range
- Attenuation 30 $\pm$ 1 dB
- 100 Watts Average Input Power
- VSWR <1.5:1

Applications

- Precision Measurements
- Production Systems
- Instrumentation
- Prototyping and Characterization
- 5G and 6G communications

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 30 dB Fixed Attenuator PE7581-30 is rated to 100 Watts and operates from DC to 10 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
Attenuation Accuracy		$\pm$ 1		dB
VSWR			1.5:1	
Input Power, CW			100	Watts
Input Power, Peak			5	kWatts
5 μ s PW with 2% duty cycle				

Mechanical Specifications

Size

Length	6.81 in [172.97 mm]
Width/Diameter	3.35 in [85.09 mm]
Height	3.39 in [86.11 mm]
Weight	3.31 lbs [1.5 kg]
Body Material and Plating	Aluminum, Black Anodized

Configuration

Design	Fixed, Unidirectional
Design Type	Standard
Package Style	Connectorized

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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 -55 to +125 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

30 dB Fixed Attenuator, N Male to N Female Aluminum Black Anodized Body Rated to 100 Watts Up to 10 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: [30 dB Fixed Attenuator, N Male to N Female Aluminum Black Anodized Body Rated to 100 Watts Up to 10 GHz PE7581-30](#)

URL: <https://www.pasternack.com/30db-fixed-n-male-n-female-100-watts-attenuator-pe7581-30-p.aspx>

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PE7581-30 CAD Drawing

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