

2 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 6 GHz

# RF Fixed Attenuators Technical Data Sheet

## **Features**

- DC to 6 GHz Frequency Range
- Attenuation 2±0.75 dB

### **Applications**

- Instrumentation
- Precision measurements

- Max Power 5 Watts (CW)
- VSWR < 1.25:1</li>
- 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 2 dB Fixed Attenuator PE7AP006-02 is rated to 5 Watts and operates from DC to 6 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH and RoHS compliant. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		2		dB
Attenuation Accuracy		0.75		dB
VSWR			1.25:1	
Input Power, CW			5	Watts
derated linearly to 0.5W at +12	5°C			
Input Power, Peak			500	Watts
5µs pulse, 0.25% duty cycle				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 6 GHz PE7AP006-02

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

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PE7AP006-02



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Mechanical	Specifications

Size Length Width/Diameter Weight Body Material and Plating

2.15 in [54.61 mm] 0.86 in [21.84 mm]

0.138 lbs [62.6 g] Black Anodized Aluminum Heatsink

Fixed Connectorized Module

#### Connectors

Configuration

Package Style

Design

Description	Connector 1	Connector 2
Туре	N Male	N Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-PRF-39012	MIL-PRF-39012
Dielectric Type	Teflon	Teflon
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Mechanical Specification Notes:

Materials and finishes comply with MIL-DTL-3933 and MIL-PRF-39012.

### **Environmental Specifications**

Temperature Operating Range

-65 to +125 deg C

Environmental Specification Notes: Designed to meet environmental requirements of MIL-DTL-3933.

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

### **Plotted and Other Data**

Notes:

2 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 6 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.

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URL: https://www.pasternack.com/2db-fixed-n-male-n-female-5-watts-attenuator-pe7ap006-02-p.aspx

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# PE7AP006-02 CAD Drawing

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