

20 dB Fixed Attenuator, N Male to N Female
Directional Black Anodized Aluminum Heatsink
Body Rated to 500 Watts Up to 3 GHz



PE7AP418-20

Features

- Directional
- DC to 3 GHz Frequency Range
- Attenuation 20 dB
- Accuracy +/-1.75 dB
- Max Power 500 Watts (CW)
- VSWR < 1.35:1

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 PE7AP418-20 is rated to 500 Watts and operates from DC to 3 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		3	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy			±1.75	dB
VSWR			1.35:1	
Input Power, CW			500	Watts
derated linearly to 50W @125°C				
Input Power, Peak			10	kWatts
5µs pulse, 5% duty cycle				

Electrical Specification Notes:
Typical accuracy of +/-1.75 dB from nominal attenuation.

Mechanical Specifications

Size

Length	17.2 in [436.88 mm]
Width/Diameter	5.197 in [132 mm]
Height	5.51 in [139.95 mm]
Weight	19.4 lbs [8.8 kg]
Body Material and Plating	Black Anodized Aluminum Heatsink

20 dB Fixed Attenuator, N Male to N Female
Directional Black Anodized Aluminum Heatsink
Body Rated to 500 Watts Up to 3 GHz



PE7AP418-20

Configuration

Design	Fixed, Directional
Package Style	Connectorized

Connectors

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

20 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 500 Watts Up to 3 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: [20 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 500 Watts Up to 3 GHz PE7AP418-20](#)

URL: <https://www.pasternack.com/20db-fixed-n-male-n-female-500-watts-attenuator-pe7ap418-20-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

20 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 500 Watts Up to 3 GHz

3