



20 dB Fixed Attenuator, N Male to N Female
Directional Black Anodized Aluminum Heatsink
Body Rated to 200 Watts Up to 18 GHz

RF Fixed Attenuators Technical Data Sheet

PE7AP200-20

Features

- Directional
- DC to 18 GHz Frequency Range
- Attenuation 20±3 dB
- Max Power 200 Watts (CW)
- VSWR < 1.5:1

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 PE7AP200-20 is rated to 200 Watts and operates from DC to 18 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		18	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
VSWR			1.5:1	
Input Power, CW rated at +25°C, derated linearly to 20W at +100°C			200	Watts
Input Power, Peak 5µs pulse, 3.5% 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: [20 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 200 Watts Up to 18 GHz PE7AP200-20](#)



20 dB Fixed Attenuator, N Male to N Female
Directional Black Anodized Aluminum Heatsink
Body Rated to 200 Watts Up to 18 GHz

RF Fixed Attenuators Technical Data Sheet

PE7AP200-20

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 8	8 to 18				GHz
Attenuation Accuracy, Typ	2	3				dB

Electrical Specification Notes:
Values at +25°C, sea level.

Mechanical Specifications

Size

Length	14.28 in [362.71 mm]
Width/Diameter	2.5 in [63.5 mm]
Weight	2.099 lbs [952.09 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

Configuration

Design	Fixed, Directional
Package Style	Connectorized Module

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Connector Specification	MIL-STD-348A	MIL-STD-348A
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Stainless Steel	Stainless Steel

Environmental Specifications

Temperature

Operating Range	-55 to +100 deg C
-----------------	-------------------

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

Plotted and Other Data

Notes:

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 200 Watts Up to 18 GHz PE7AP200-20](#)



20 dB Fixed Attenuator, N Male to N Female
Directional Black Anodized Aluminum Heatsink
Body Rated to 200 Watts Up to 18 GHz

RF Fixed Attenuators Technical Data Sheet

PE7AP200-20

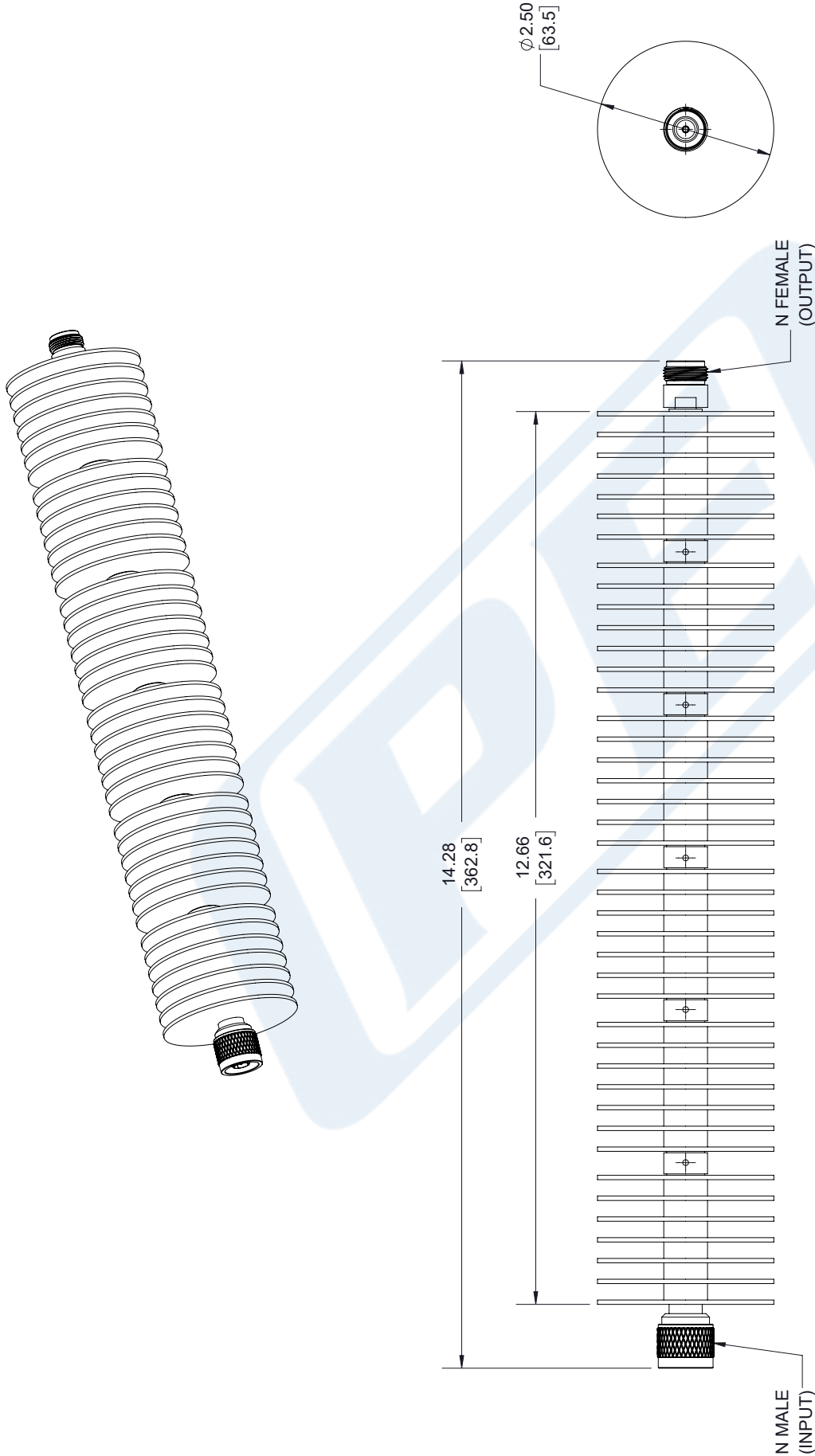
20 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 200 Watts Up to 18 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part 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 200 Watts Up to 18 GHz PE7AP200-20](https://www.pasternack.com/20db-fixed-n-male-n-female-200-watts-attenuator-pe7ap200-20-p.aspx)

URL: <https://www.pasternack.com/20db-fixed-n-male-n-female-200-watts-attenuator-pe7ap200-20-p.aspx>

PE7AP200-20 CAD Drawing

20 dB Fixed Attenuator, N Male to N Female Directional Black Anodized
Aluminum Heatsink Body Rated to 200 Watts Up to 18 GHz



STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE

PE7AP200-20

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
3. DIMENSIONS ARE IN INCHES [mm].

CAGE CODE 53919

CAD FILE 011618

SCALE N/A

SIZE A

7361