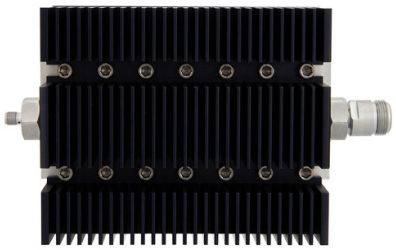
20 dB Fixed Attenuator, SMA Female To N Female Directional Black Anodized Aluminum Heatsink Body Rated To 100 Watts Up To 6 GHz



PE7216-20

Features

- 100W average power and 2,000W peak power handling capability
- Operate to 6 GHz
- Temperature range of -55 to +125 degrees C
- 42 in-series and between series combinations
- 7/16 DIN, SMA, N, TNC Male and Female connectors are available
- Other connector combinations available upon request

Applications

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 PE7216-20 is rated to 100 Watts and operates from DC to 6 GHz. The versatile coaxial package uses SMA female 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. Pasternack Enterprises line of 100W Attenuators operate from DC to 6 GHz, and are available in 42 different 7/16 DIN, N, SMA and TNC in-series and between-series connector combinations. Our 100W Attenuators are manufactured with Passivated Stainless Steel SMA, TNC and N connectors, and Silver Plated Brass 7/16 DIN connectors. Pasternack 100W Attenuators come in 3 dB, 6 dB, 10 dB, 20 dB, 30 dB, 40 dB, 60 dB values and will operate from -55 to +125 degrees C. Additional connector combinations are available beyond the 42 standard designs, upon request.

Electrical Specifications

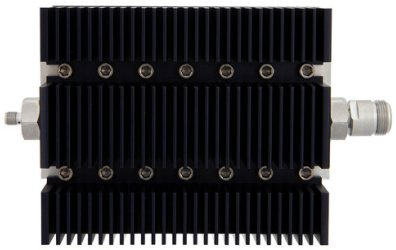
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
VSWR			1.45:1	
Input Power, CW			100	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 4	4 to 6			GHz
VSWR, Max	1.2:1	1.35:1	1.45:1			
Attenuation Accuracy, Typ	1	1	1.25			dB

© 2025 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.
+1 (866) 558-2786 | sales@pasternack.com | pasternack.com

20 dB Fixed Attenuator, SMA Female To N Female Directional Black Anodized Aluminum Heatsink Body Rated To 100 Watts Up To 6 GHz



PE7216-20

Mechanical Specifications

Size

Length	4.9 in [124.46 mm]
Width/Diameter	3.8 in [96.52 mm]
Height	2.7 in [68.58 mm]
Weight	3 lbs [1.36 kg]
Body Material and Plating	Black Anodized Aluminum Heatsink

Configuration

Design	Fixed, Directional

Connectors

Description	Connector 1	Connector 2
Type	SMA Female	N Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Stainless Steel, Passivated	Stainless Steel, Passivated

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, SMA Female To N Female Directional Black Anodized Aluminum Heatsink Body Rated To 100 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.

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, SMA Female To N Female Directional Black Anodized Aluminum Heatsink Body Rated To 100 Watts Up To 6 GHz PE7216-20

URL: https://www.pasternack.com/20db-fixed-sma-female-n-female-100-watts-attenuator-pe7216-20-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 impliment 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.

© 2025 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.