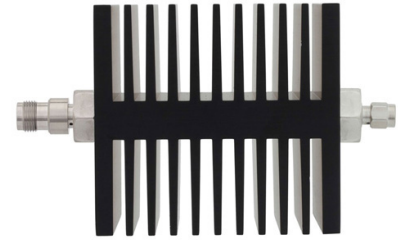


20 dB Fixed Attenuator, TNC Female To SMA Male
Directional Black Anodized Aluminum Heatsink
Body Rated To 50 Watts Up To 18 GHz



PE7331-20

Features

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 PE7331-20 is rated to 50 Watts and operates from DC to 18 GHz. The versatile coaxial package uses TNC female to SMA male 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			1.6:1	
Input Power, CW			50	Watts
Input Power, Peak			500	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12.4	12.4 to 18			GHz
VSWR, Max	1.3:1	1.45:1	1.6:1			
Attenuation Accuracy, Typ	0.75	0.75	1.25			dB

Mechanical Specifications

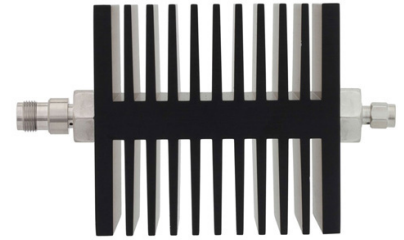
Size

Length	4.01 in [101.85 mm]
Width/Diameter	3 in [76.2 mm]
Height	3 in [76.2 mm]
Weight	1.796 lbs [814.65 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

Configuration

Design	Fixed, Directional
--------	--------------------

20 dB Fixed Attenuator, TNC Female To SMA Male
Directional Black Anodized Aluminum Heatsink
Body Rated To 50 Watts Up To 18 GHz



PE7331-20

Connectors

Description	Connector 1	Connector 2
Type	TNC Female	SMA Male
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Outer Conductor Material and Plating		Stainless Steel, Passivated
Hex Size	11/16 In.	11/16 In.
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, TNC Female To SMA Male Directional Black Anodized Aluminum Heatsink Body Rated To 50 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, TNC Female To SMA Male Directional Black Anodized Aluminum Heatsink Body Rated To 50 Watts Up To 18 GHz PE7331-20](#)

URL: <https://www.pasternack.com/20db-fixed-tnc-female-sma-male-50-watts-attenuator-pe7331-20-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.