

## 0 to 20 dB Variable Attenuator, SMA Female to SMA Female Rated to 5 Watts from 10.7 GHz to 14.5 GHz



### PE7501-20

#### Features

- 20 dB Attenuation Level
- Rotary Dial Design for Continuous Adjustment
- Frequency Range 10.7 GHz to 14.5 GHz Range
- SMA Female Connectorized Design
- Max VSWR 1.5:1
- Max Power Rating: 5W (CW)

#### Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

#### Description

Pasternack PE7501-20 is a continuously variable attenuator that has 20 dB of total attenuation with rotary dial design for continuous attenuation level adjustment with +/- 1.5 dB flatness across a frequency range of 10.7 GHz to 14.5 GHz. With SMA female gender for connector 1 and a SMA female for connector 2. This microwave variable attenuator design is tried and true technology that offers exceptional RF performance characteristics that include 0.5 dB maximum insertion loss and a maximum VSWR of 1.5:1. Our continuously variable attenuator is rated to 5 Watts (CW).

#### Configuration

Design  
Body Material and Plating

Continuously Variable Attenuator  
Aluminum

#### Electrical Specifications Values at 25°C, sea level

Description	Minimum	Typical	Maximum	Units
Frequency Range	10.7		14.5	GHz
Impedance		50		Ohms
Attenuation Value		0 to 20		dB
Step Type		Dial		
Input Power (CW)			5	Watts
Peak Power			3	kWatts
Insertion Loss			0.5	dB
VSWR			1.5:1	

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	10.7 to 14.5					GHz
Attenuation Accuracy	1.5					dB

#### Mechanical Specifications

##### Temperature

##### Size

Length  
Width

2 in [50.8 mm]  
1.25 in [31.75 mm]

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Height	0.5 in [12.7 mm]
Weight	0.02 lbs [9.07 g]

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMA Female

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

#### Plotted and Other Data

- Notes:
- Values at 25 °C, sea level

0 to 20 dB Variable Attenuator, SMA Female to SMA Female Rated to 5 Watts from 10.7 GHz to 14.5 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: [0 to 20 dB Variable Attenuator, SMA Female to SMA Female Rated to 5 Watts from 10.7 GHz to 14.5 GHz PE7501-20](#)

URL: <https://www.pasternack.com/20db-continuously-variable-sma-female-sma-female-5-watts-attenuator-pe7501-20-p.aspx>

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PE7501-20 CAD Drawing

0 to 20 dB Variable Attenuator, SMA Female to SMA Female Rated to 5 Watts from 10.7 GHz to 14.5 GHz

