

0 to 20 dB Variable Attenuator SMA Female to SMA  
Female from 8 GHz to 18 GHz Rated to 5 Watts



**FMAT7502-20**

**Features**

- 20 dB Attenuation Level
- Rotary Dial Design for Continuous Adjustment Flat Across Frequency Range
- Frequency Range 8 GHz to 18 GHz
- SMA Female Connectorized Design
- Max VSWR 1.6:1
- Max Power Rating: 5W (CW)

**Applications**

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

**Description**

FMAT7502-20 from Fairview Microwave is a continuously variable attenuator that has 20 dB of total attenuation with rotary dial design for continuous attenuation level adjustment with +/- 2.0 dB flatness across a frequency Range from 8 GHz to 18 GHz. With SMA female connectors, this RF 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 1.6:1 and rated at 5 Watts (CW). Continuously variable attenuators are part of the comprehensive RF attenuator product offerings from Fairview Microwave which are available in stock and ready for same day shipment.

**Configuration**

Design: Continuously Variable Attenuator  
Body Material and Plating: Aluminum

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	8		18	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			1.6:1	

**Specifications by Frequency**

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

**Mechanical Specifications**

**Temperature**

**Size**

Length: 2 in [50.8 mm]

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Width	1.25 in [31.75 mm]
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 from 8 GHz to 18 GHz Rated to 5 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [0 to 20 dB Variable Attenuator SMA Female to SMA Female from 8 GHz to 18 GHz Rated to 5 Watts FMAT7502-20](#)

URL: <https://www.fairviewmicrowave.com/20db-continuously-variable-attenuator-sma-female-sma-female-5-watts-fmat7502-20-p.aspx>

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# FMAT7502-20 CAD Drawing

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