The Right Parts, Right Away

0 to 99dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz

FMAT7444-99

Features

- 1 dB steps from 0 to 99 dB Attenuation
- Rotary Dial Control
- SMA Female Connectors

Applications

Instrumentation

Precision Measurements

Prototyping and Characterization

0°C to +54°C Operating Temperature

±2 dB Typical Attenuation Accuracy

Production Systems

Description

The FMAT7444-99 is a Step Attenuator that has 99 dB of total attenuation with 1 dB step size and rotary dial design across a frequency range from DC to 18 GHz. The design is tried and true technology that offers exceptional performance characteristics that include 1.5 dB maximum insertion loss, and a maximum VSWR of 1.75:1 at 18 GHz. The design also features excellent attenuation accuracy with ±2 dB typical at 18 GHz. The Aluminum package has SMA Female connectors, and operates within the temperature range of 0°C to 54°C.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Attenuation Value		0 to 99		dB
Step Size		1		dB
Step Type		Rotary		
Input Power (CW)			2	Watts
Input Power, Peak			200	Watts
5µs Pulse Width,1% DutyCycle				
VSWR			1.75:1	

Specifications by Frequency

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

Electrical Specification Notes:

Attenuation Accuracy specification is ±3.5% dB typ for any attenuation above 70dB.

Mechanical Specifications

Size	
Length	6.417 in [162.99 mm]
Width	1.772 in [45.01 mm]
Height	1.89 in [48.01 mm]
Weight	2.5 lbs [1.13 kg]





The Right Parts, Right Away

0 to 99dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz

FMAT7444-99

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Female	SMA Female	
Contact Material and Plating	Beryllium Copper, Gold		
Body Material and Plating	Stainless Steel	Aluminum	

Environmental Specifications

Temperature Operating Range

0 to 54 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

0 to 99dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz 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 99dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz FMAT7444-99

URL: https://www.fairviewmicrowave.com/99db-step-attenuator-1db-sma-female-dc-18-ghz-2-watts-fmat7444-99-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.





FMAT7444-99 CAD Drawing

0 to 99dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz

