

0 to 70 dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 6 GHz



FMAT7440-70

Features

- 1 dB steps from 0 to 70 dB Attenuation
- Rotary Dial Control
- SMA Female Connectors
- -20°C to +85°C Operating Temperature
- ±1.5 dB Typical Attenuation Accuracy

Applications

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

Description

The FMAT7440-70 is a Step Attenuator that has 70 dB of total attenuation with 1 dB step size and rotary dial design across a frequency range from DC to 6 GHz. The design is tried and true technology that offers exceptional performance characteristics that include 1.8 dB maximum insertion loss, and a maximum VSWR of 1.55:1 at 6 GHz. The design also features excellent attenuation accuracy with ±1.5 dB typical at 6 GHz. The Brass package has SMA Female connectors, and operates within the temperature range of -20°C to 85°C.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Insertion Loss			1.8	dB
Attenuation Value		0 to 70		dB
Step Size		1		dB
Step Type		Rotary		
Input Power (CW)			2	Watts
Input Power, Peak 5µs Pulse Width, 2% Duty Cycle			100	Watts
VSWR			1.55:1	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 6					GHz
Attenuation Accuracy	1.5					dB

Electrical Specification Notes:

Attenuation Accuracy specification is ±3.5% dB typ for any attenuation above 50dB.

Mechanical Specifications

Size

Length	4.724 in [119.99 mm]
Width	1.181 in [30 mm]
Height	2.098 in [53.29 mm]
Weight	0.42 lbs [190.51 g]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMA Female
Contact Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

Operating Range -20 to 85 deg C

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

Plotted and Other Data

Notes:

0 to 70 dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 6 GHz 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 70 dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 6 GHz FMAT7440-70](#)

URL: <https://www.fairviewmicrowave.com/70db-step-attenuator-1db-sma-female-dc-6-ghz-2-watts-fmat7440-70-p.aspx>

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FMAT7440-70 CAD Drawing

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