

0 to 70 dB Step Attenuator With a 10 dB Step SMA Female Connectors Rated Up To 2.2 GHz and Up to 2 Watts in a Rotary Design

The FMAT1023 is a Step Attenuator that has 70 dB of total attenuation with 10 dB step size and rotary dial design across a frequency range from DC to 2.2 GHz. The design is tried and true technology that offers exceptional performance characteristics that include 0.5 dB maximum insertion loss, and a maximum VSWR of 1.4:1 at 2.2 GHz. The design also features excellent attenuation accuracy with ± 0.4 dB typical at 2.2 GHz. The Chem film Aluminum alloy package has SMA Female connectors, and operates within the temperature range of -20°C to 80°C.



Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		2.2	GHz
Impedance		50		Ohms
Insertion Loss			0.5	dB
Attenuation Value		0 to 70		dB
Step Size		10		dB
Step Type		Rotary		
Accuracy Statement	± 0.5 dB or 3% (Whichever is greater)			
Input Power			2	Watts
Input Power, Peak			1	KWatts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 1	1 to 2.2				GHz
Insertion Loss	0.3	0.5				dB
VSWR	1.2:1	1.4:1				

Mechanical Specifications

Size	
Length	2.67 in [67.82 mm]
Width	1.5 in [38.1 mm]
Weight	0.541 lbs [245.39 g]
Body Material and Plating	Aluminum, Chem Film

Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMA Female

Environmental Specifications
Temperature

Operating Range	-20 to 85 deg C
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Features:

- 10 dB steps from 0 to 70 dB Attenuation
- Rotary Dial Control
- ± 0.5 dB or 3% Attenuation Accuracy
- SMA Female Connectors
- -20°C to +80°C Operating Temperature

Applications:

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

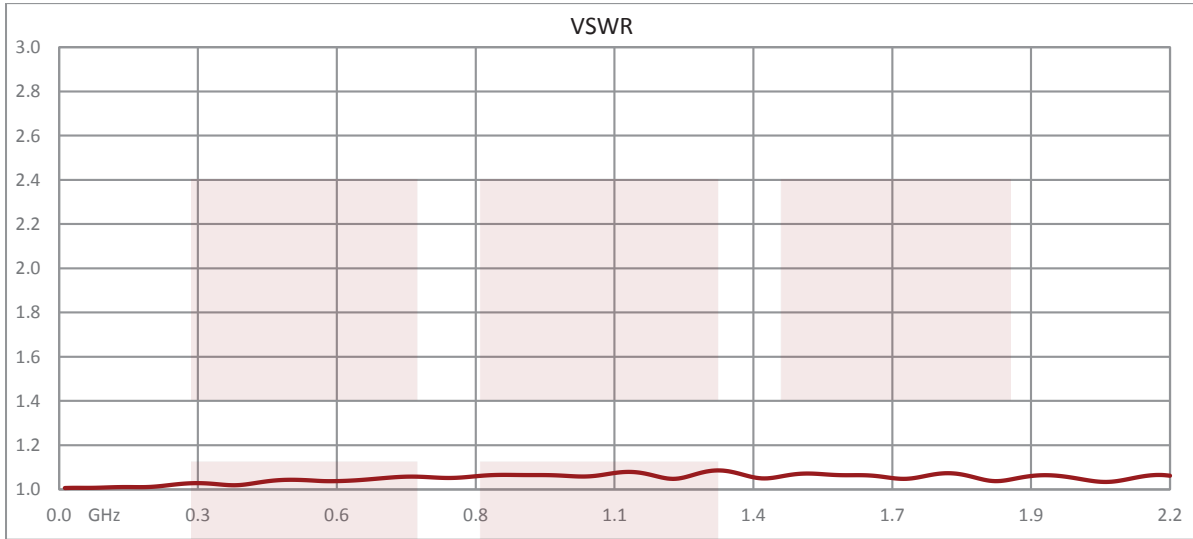
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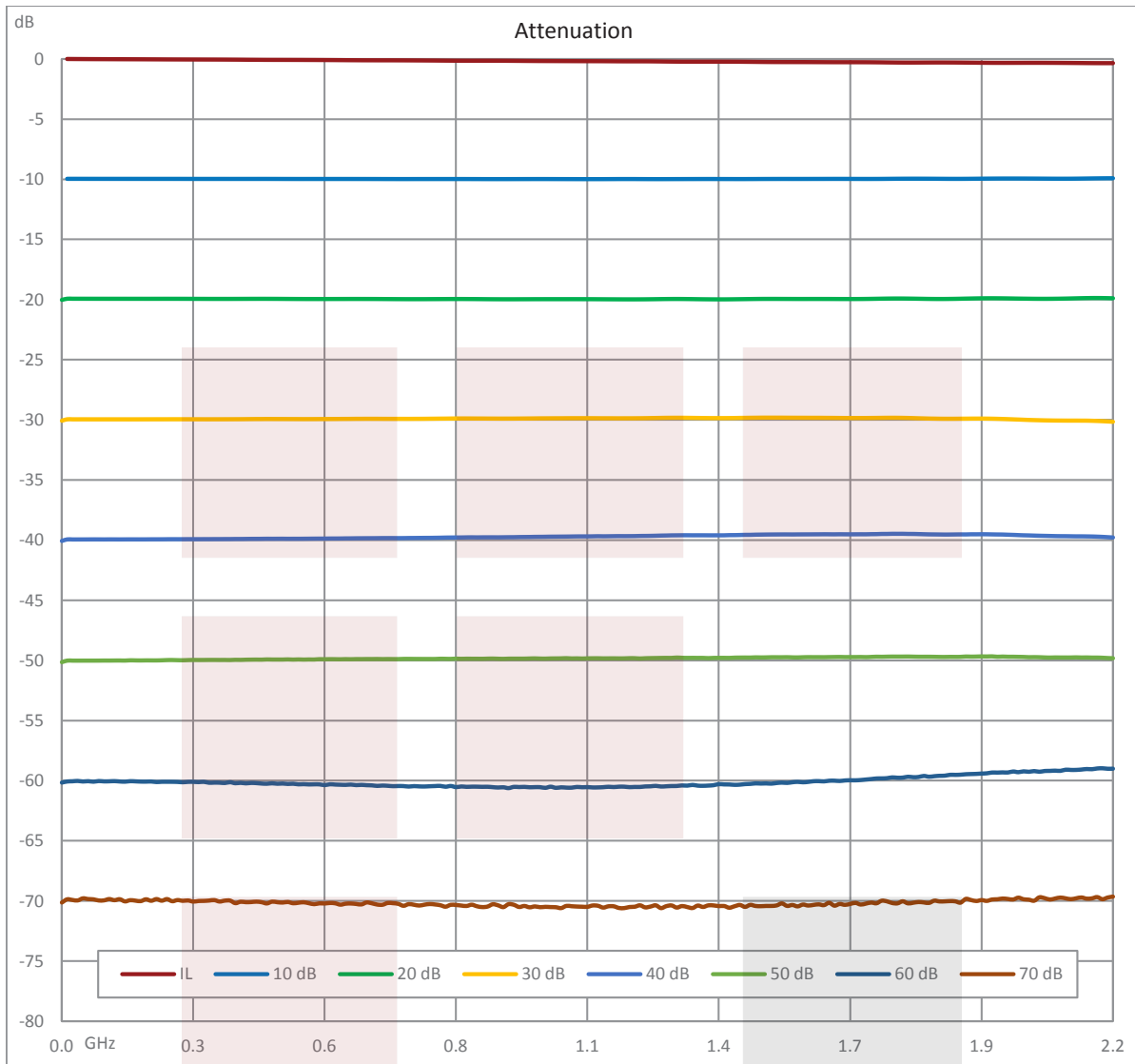
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



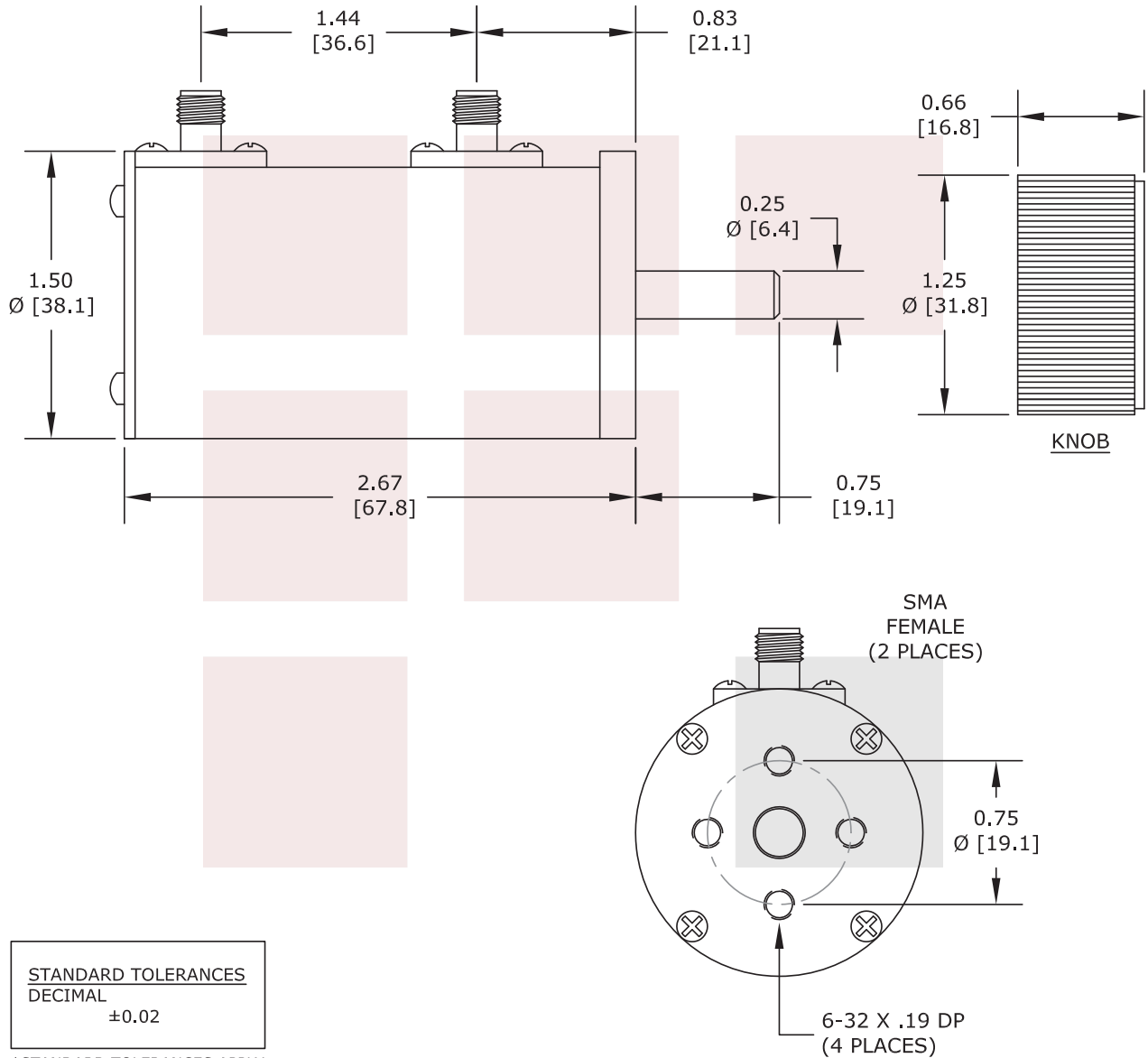


0 to 70 dB Step Attenuator With a 10 dB Step SMA Female Connectors Rated Up To 2.2 GHz and Up to 2 Watts in a Rotary Design from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [0 to 70 dB Step Attenuator With a 10 dB Step SMA Female Connectors Rated Up To 2.2 GHz and Up to 2 Watts in a Rotary Design FMAT1023](https://www.fairviewmicrowave.com/70db-step-attenuator-10db-sma-female-dc-2.2-ghz-2-watts-fmat1023-p.aspx)

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STANDARD TOLERANCES
 DECIMAL
 ±0.02

*STANDARD TOLERANCES APPLY
 ONLY TO DIMENSIONS IN INCHES

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TITLE 0 to 70 dB Step Attenuator With a 10 dB Step SMA Female Connectors Rated Up To 2.2 GHz and Up to 2 Watts in a Rotary Design		DWG NO FMAT1023		CAGE CODE 3FKR5	
CAD FILE	021417	SHEET	SCALE	N/A	SIZE A 2233