



FMAT1025

Features

- 1 dB steps from 0 to 10 dB Attenuation
- Rotary Dial Control
- ±0.4 dB Maximum Attenuation Accuracy

Applications

- Instrumentation
- · Precision Measurements

- SMA Female Connectors
- · -20°C to +80°C Operating Temperature
- · Prototyping and Characterization
- Production Systems

Description

The FMAT1025 is a Step Attenuator that has 10 dB of total attenuation with 1 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 0.4 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.2	GHz
Impedance		50		Ohms
Insertion Loss			0.4	dB
Attenuation Value		0 to 10		dB
Step Size		1		dB
Step Type		Rotary		
Input Power (CW)			2	Watts
Input Power, Peak			1	kWatts
1 µsec Pulse Width				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 1	1 to 2.2				GHz
Insertion Loss	0.2	0.4				dB
VSWR	1.2:1	1.4:1				
Attenuation Accuracy	0.2	0.4				dB

Mechanical Specifications

Size Length Width Height Weight **Body Material and Plating**

2 in [50.8 mm] 1.5 in [38.1 mm] 0 in [0 mm] 0.4249 lbs [192.73 g]

Aluminum, Chem Film





FMAT1025

Connectors

Description	Connector 1	Connector 2
Туре	SMA Female	SMA Female

Environmental Specifications

Temperature

Operating Range

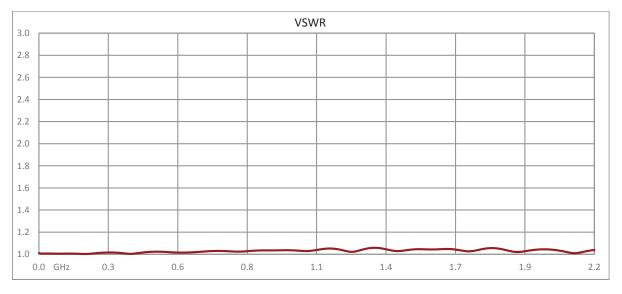
-20 to 85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

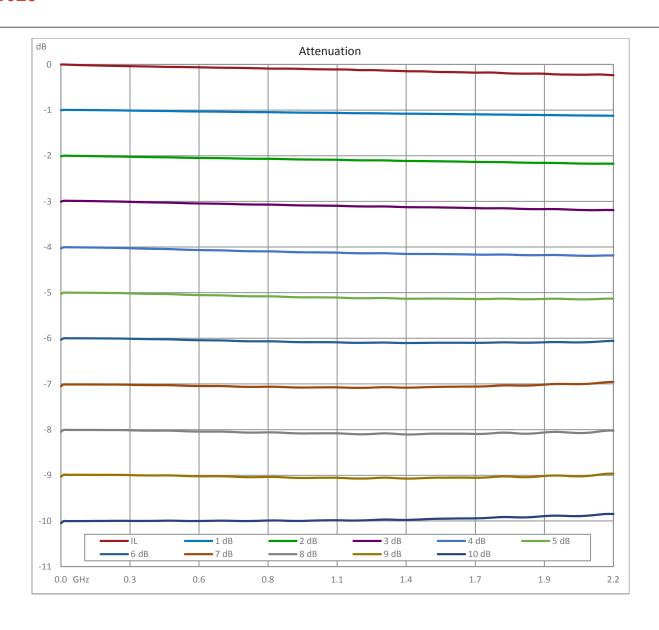








FMAT1025









FMAT1025

0 to 10 dB Step Attenuator With a 1 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

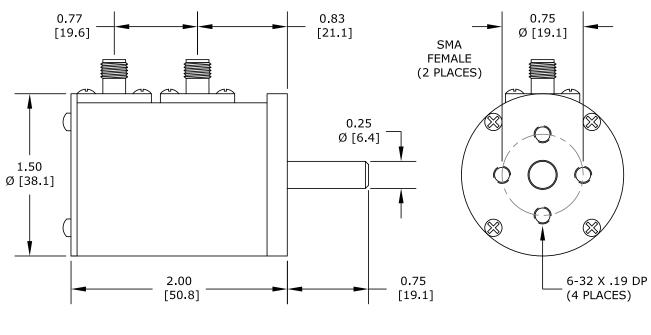
For additional information on this product, please click the following link: 0 to 10 dB Step Attenuator With a 1 dB Step SMA Female Connectors Rated Up To 2.2 GHz and Up to 2 Watts in a Rotary Design FMAT1025

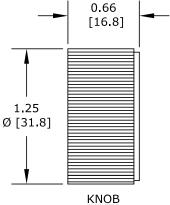
URL: https://www.fairviewmicrowave.com/10db-step-attenuator-1db-sma-female-dc-2.2-ghz-2-watts-fmat1025-p.aspx

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.

FMAT1025 CAD Drawing

0 to 10 dB Step Attenuator With a 1 dB Step SMA Female Connectors Rated Up To 2.2 GHz and Up to 2 Watts in a Rotary Design





STANDARD TOLERANCES
DECIMAL
±0.02

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
TITLE	DWG NO FMAT1025			CAGE CODE 3FKR5		
	CAD FILE 021417	SHEET	SCAL	E N/A	SIZE A	2233