

0 to 30 dB Step Attenuator With a 1 dB Step N  
Female Connectors Rated Up To 2.7 GHz and  
Up to 2 Watts in a Dial Design



## FMAT4000

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.7	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Attenuation Value		0 to 30		dB
Step Size		1		dB
Step Type		Dial		
Accuracy Statement		+ / - .2 dB or 3 % whichever is greater		
Input Power (CW)			2	Watts
Input Power, Peak			1	kWatts
VSWR			2:1	

### Mechanical Specifications

#### Size

Length	6.95 in [176.53 mm]
Width	3.75 in [95.25 mm]
Height	2.5 in [63.5 mm]
Weight	0.7266 lbs [329.58 g]

### Connectors

Description	Connector 1	Connector 2
Type	N Female	N Female

### Environmental Specifications

#### Temperature

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

### Plotted and Other Data

Notes:

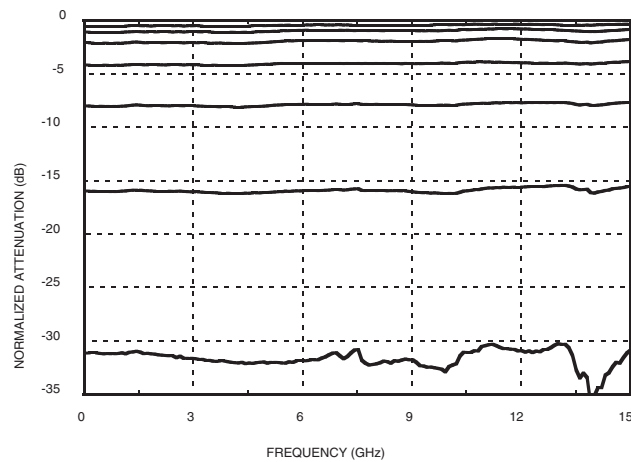
0 to 30 dB Step Attenuator With a 1 dB Step N  
Female Connectors Rated Up To 2.7 GHz and  
Up to 2 Watts in a Dial Design



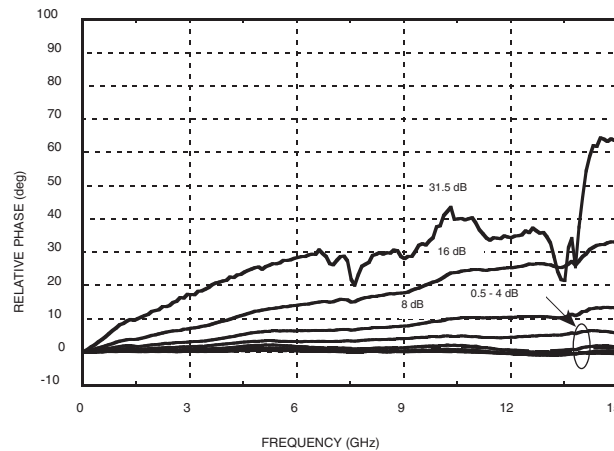
## FMAT4000

### Typical Performance Data

**Normalized Attenuation** (Only Major States are Shown)



**Relative Phase vs. Frequency** (Only Major States are Shown)

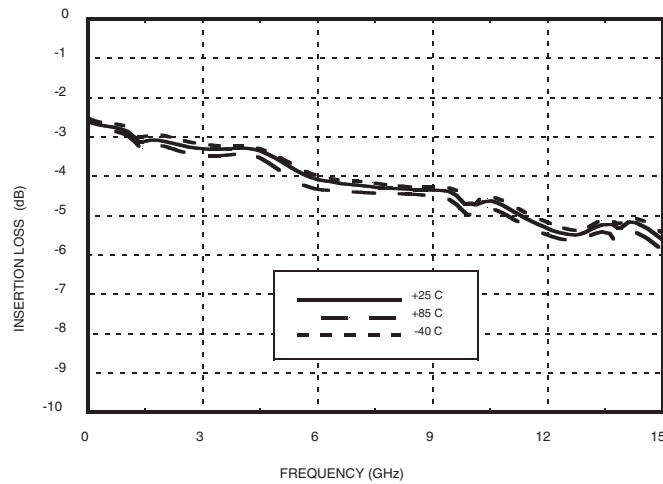


0 to 30 dB Step Attenuator With a 1 dB Step N  
Female Connectors Rated Up To 2.7 GHz and  
Up to 2 Watts in a Dial Design

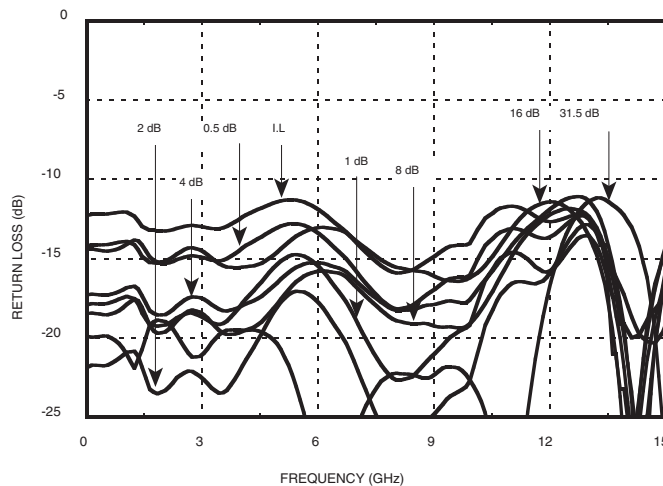


## FMAT4000

### Insertion Loss



### Return Loss RF1, RF2 (Only Major States are Shown)

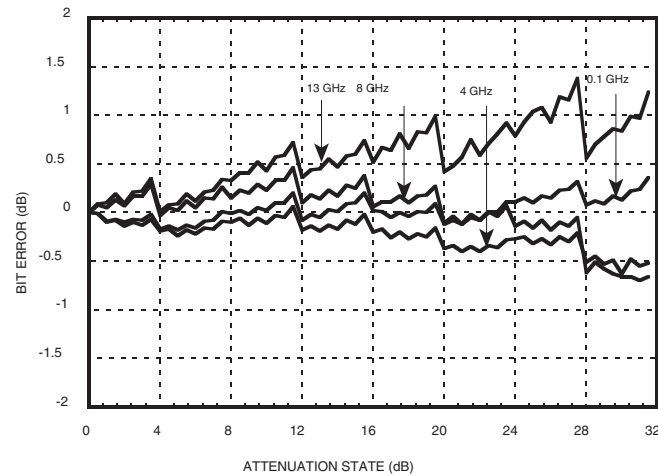


0 to 30 dB Step Attenuator With a 1 dB Step N  
Female Connectors Rated Up To 2.7 GHz and  
Up to 2 Watts in a Dial Design

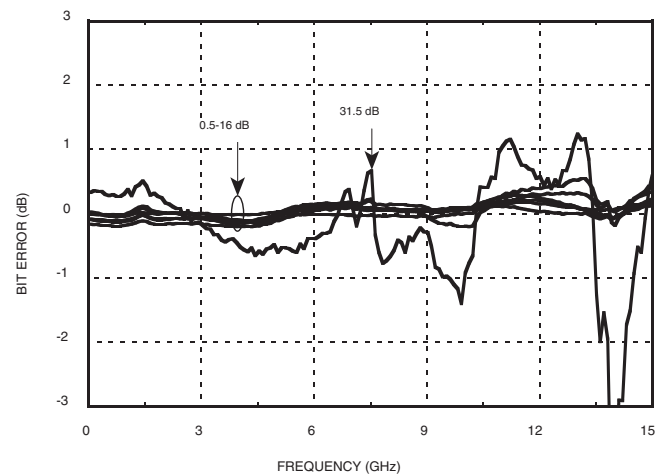


## FMAT4000

**Bit Error vs. Attenuation State**



**Bit Error vs. Frequency (Only Major States are Shown)**

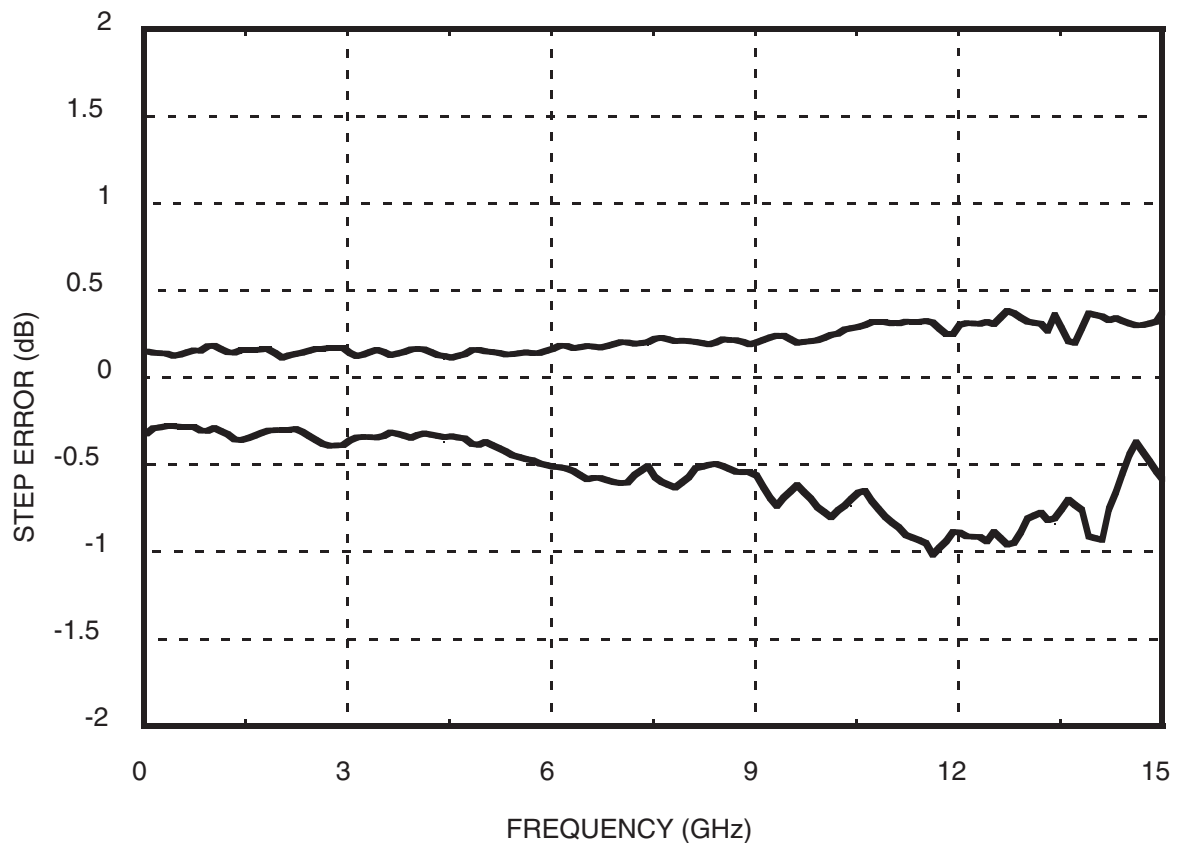


0 to 30 dB Step Attenuator With a 1 dB Step N  
Female Connectors Rated Up To 2.7 GHz and  
Up to 2 Watts in a Dial Design



## FMAT4000

### ***Worst Case Step Error Between Successive Attenuation States***



## 0 to 30 dB Step Attenuator With a 1 dB Step N Female Connectors Rated Up To 2.7 GHz and Up to 2 Watts in a Dial Design



### FMAT4000

0 to 30 dB Step Attenuator With a 1 dB Step N Female Connectors Rated Up To 2.7 GHz and Up to 2 Watts in a Dial 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.

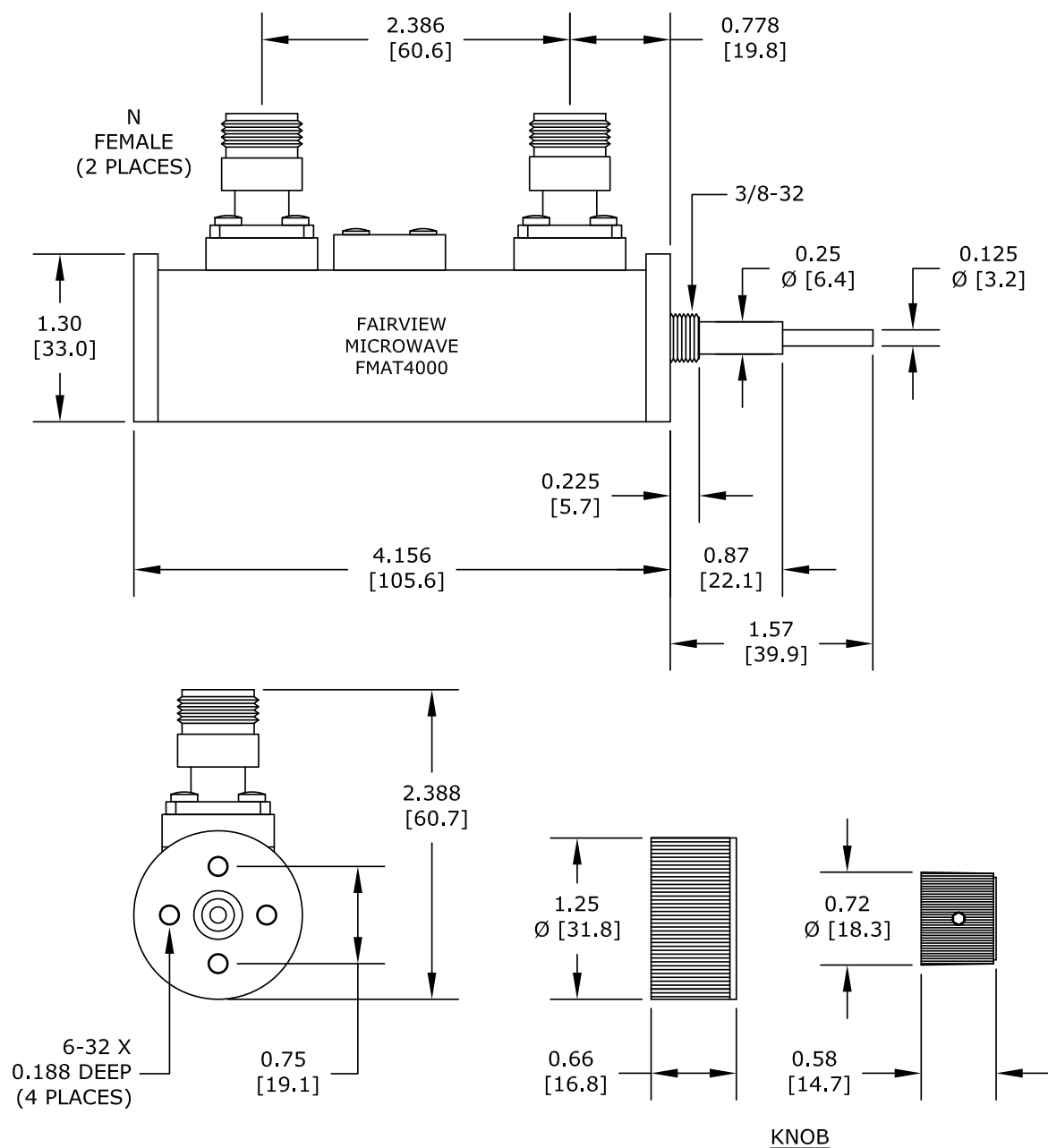
For additional information on this product, please click the following link: [0 to 30 dB Step Attenuator With a 1 dB Step N Female Connectors Rated Up To 2.7 GHz and Up to 2 Watts in a Dial Design FMAT4000](https://www.fairviewmicrowave.com/30db-step-attenuator-1db-n-female-dc-2.7-ghz-2-watts-fmat4000-p.aspx)

URL: <https://www.fairviewmicrowave.com/30db-step-attenuator-1db-n-female-dc-2.7-ghz-2-watts-fmat4000-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 implement 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.

FMAT4000 CAD Drawing

0 to 30 dB Step Attenuator With a 1 dB Step N Female Connectors Rated  
Up To 2.7 GHz and Up to 2 Watts in a Dial Design



FAIRVIEW MICROWAVE INC.		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].			
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		DWG NO		CAGE CODE	
TITLE		FMAT4000		3FKR5	
CAD FILE		071615	SHEET	SCALE	N/A
				SIZE	A
					2233