



0 to 63 dB 6 Bit Programmable Relay Controlled Step Attenuator With a 1 dB Step SMA Female Rated To 0.5 Watts Up To 1,000 MHz

The FMAT8000 is a 6 Bit Relay Programmable Attenuator which operates over the frequency range of DC to 1000 MHz. The 50 ohm design has an attenuation range that covers 0 to 63 dB in 1 dB steps. Attenuation steps are 1, 2, 4, 8, 16, and 32 dB. Insertion loss is 1.5 dB max with a maximum RF input power 0.5 Watt average and 100 Watts peak. Additional typical performance includes switching speed of 6 milliseconds. The DC supply is +12 Vdc @ 15 mA per relay. The compact and rugged package design supports SMA female RF input/output connectors and DC connector solder terminals. Operational termperature is -20°C to +85°C.

Electrical Specifications (Values at 25°C, sea level)

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Description	Min	Тур	Max	Unit
Frequency Range	DC		1,000	MHz
Mean Attenuation Range	0		63	dB
Insertion Loss			1.5	dB
Input VSWR			1.25:1	
Power Rating			+27	dBm
Accuracy of Attenuation				dB
±0.2 dB or 2% whichever is greater				
Step Size	1			dB
Switching Time			6	ms
DC Power Supply 15 mA		12		Volts
•			·	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC-0.5	0.5-1				GHz
Insertion Loss, Ma	ax 0.8	1.5				dB

Electrical Specification Notes:

1, 2, 4, 8, 16, and 32 dB

Mechanical Specifications

Size

Weight 0.4975 lbs [225.66 g]

Connector 1 SMA Female Connector 2 SMA Female



Features:

- 6 Bit Relay Programmable Attenutor
- DC to 1000 MHz Bandwidth
- 0-63 dB attenuation
- 1 dB Step Size
- 50 Ohms
- Swithing Speed: 6 milliseconds
- Insertion Loss: 1.5 dB max
- Attenuation Accuracy: +/- 0.2 dB
- Max Pin 0.5 watts average, 100 watts peak
- DC Supply: +12 Vdc @ 15 mA per relay
- · SMA female connectors

Applications:

- · Electronic Warfare
- Test & Measurement
- Military and Wireless Communications Systems
- · Military & Space
- Radar

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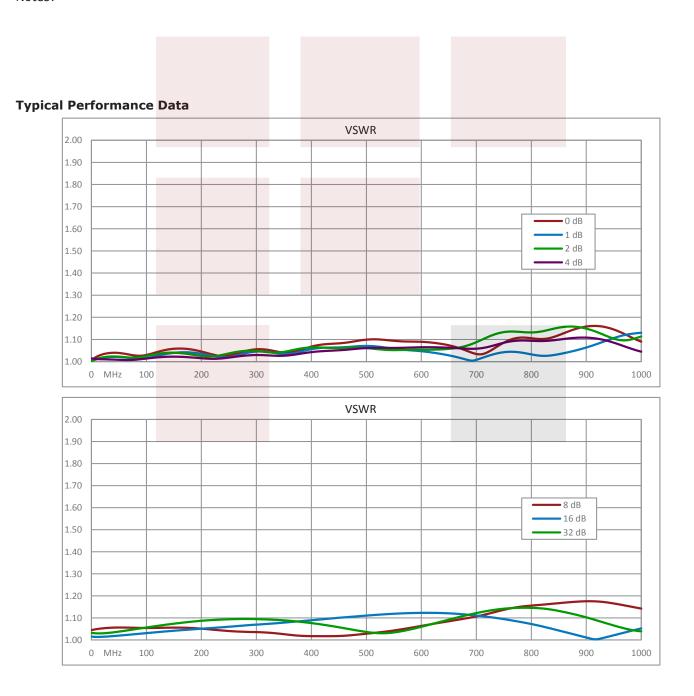
Environmental Specifications Temperature

Operating Range -20 to +85 deg C Storage Range -65 to +150 deg C

Compliance Certifications (see product page for current document)

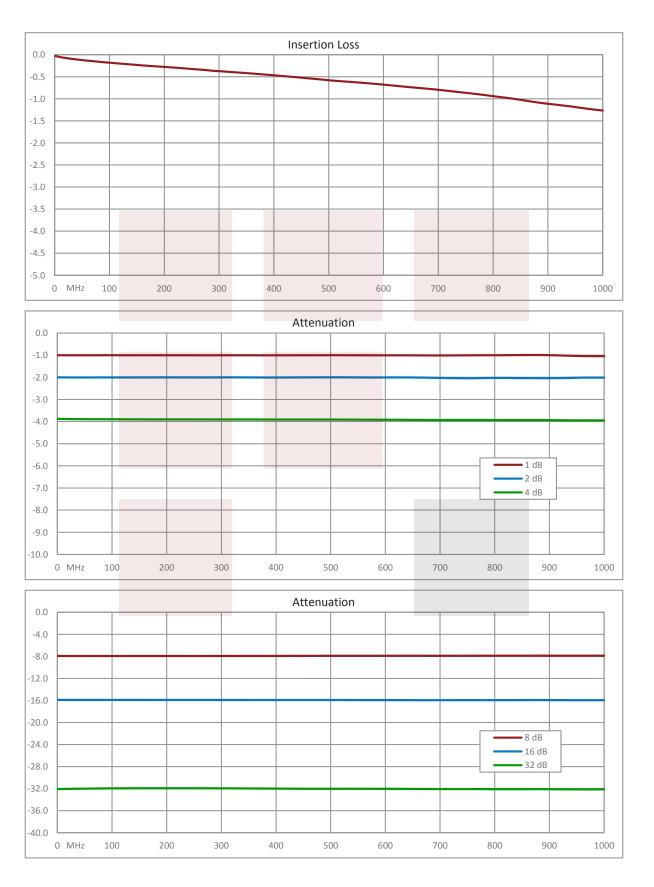
Plotted and Other Data

Notes:













0 to 63 dB 6 Bit Programmable Relay Controlled Step Attenuator With a 1 dB Step SMA Female Rated To 0.5 Watts Up To 1,000 MHz 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.

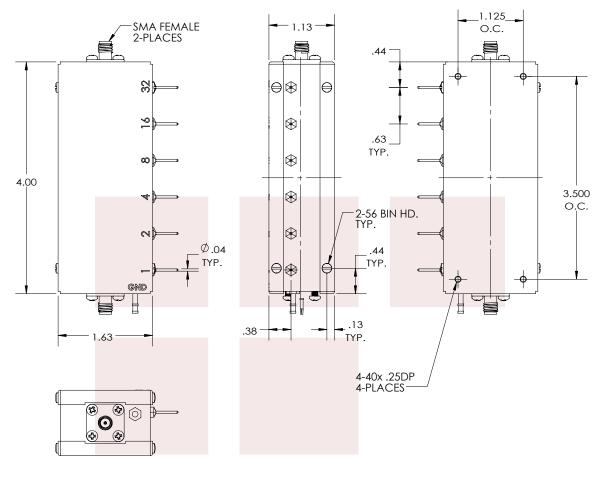
For additional information on this product, please click the following link: 0 to 63 dB 6 Bit Programmable Relay Controlled Step Attenuator With a 1 dB Step SMA Female Rated To 0.5 Watts Up To 1,000 MHz FMAT8000

URL: https://www.fairviewmicrowave.com/63-db-relay-controlled-step-attenuator-sma-female-fmat8000-p.aspx



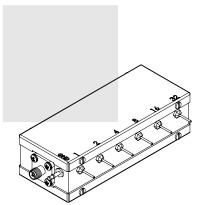






STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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TITLE	DWG NO FMAT8000			CAGE CODE 3FKR5		
0 to 63 dB 6 Bit Programmable Relay Controlled Step Attenuator With a 1 dB Step SMA Female Rated To 0.5 Watts Up To 1,000 MHz	CAD FILE 040817	SHEET	SCAL	E N/A	SIZE A	0157