



0 to 127 dB 8 Bit Programmable Relay Controlled Step Attenuator With a 1 dB Step F Female Rated To 1 Watt Up To 1,000 MHz

The FMAT8004 is a 7 Bit Relay Programmable Attenuator which operates over the frequency range of DC to 1000 MHz. The 75 ohm design has an attenuation range that covers 0 to 127 dB in 1 dB steps. Attenuation steps are 1, 2, 3, 8, 16, 32, and 64 dB. Insertion loss is 2.5 dB typical with a maximum RF input power 1 Watt average. Additional typical performance includes +/- 0.5 dB attenuation accuracy and switching speed of 6 milliseconds. The DC supply is +12 Vdc @ 30 mA per relay (7 relay solder terminals 1 GND solder terminal). The compact and rugged package design supports F 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)

Description	Min	Тур	Max	Unit
Frequency Range	DC		1,000	MHz
Mean Attenuation Range	0		127	dB
Insertion Loss		2.5		dB
Input VSWR			1.5:1	
Power Rating			+30	dBm
Accuracy of Attenuation			±0.5	dB
or 2% whichever is g	greater			
Step Size	1			dB
Switching Time			6	ms
DC Power Supply 30 mA		12		Volts

Electrical Specification Notes:

1, 2, 4, 8, 16, 32, and 64 dB bit Steps

Mechanical Specifications

Size

Weight 0.543 lbs [246.3 g]

Connector 1 F Female Connector 2 F Female

Environmental Specifications Temperature

Operating Range -20 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- 7 Bit Relay Programmable Attenuator
- DC to 1000 MHz Frequency Range
- 0-127 dB Attenuation Range
- Step Resolution of 0.5 dB
- Insertion Loss 2.5 dB max
- F Female
- 8 Solder Terminals
- CMOS control

Applications:

- · Electronic Warfare
- Electronic Countermeasures
- Microwave Radio
- VSAT
- Radar
- Fiber Optic
- Space Systems
- Test Instrumentation
- Telecom Infrastructure

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

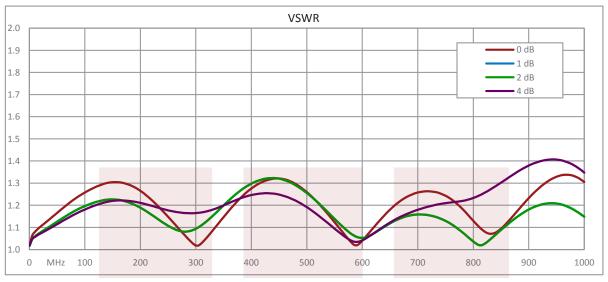
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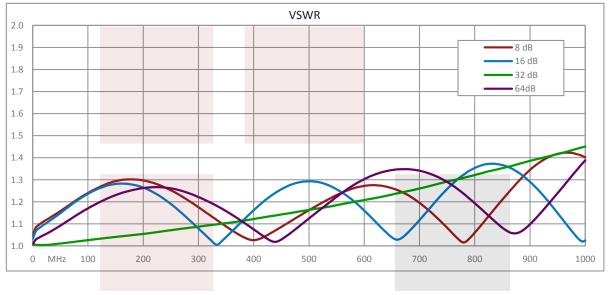
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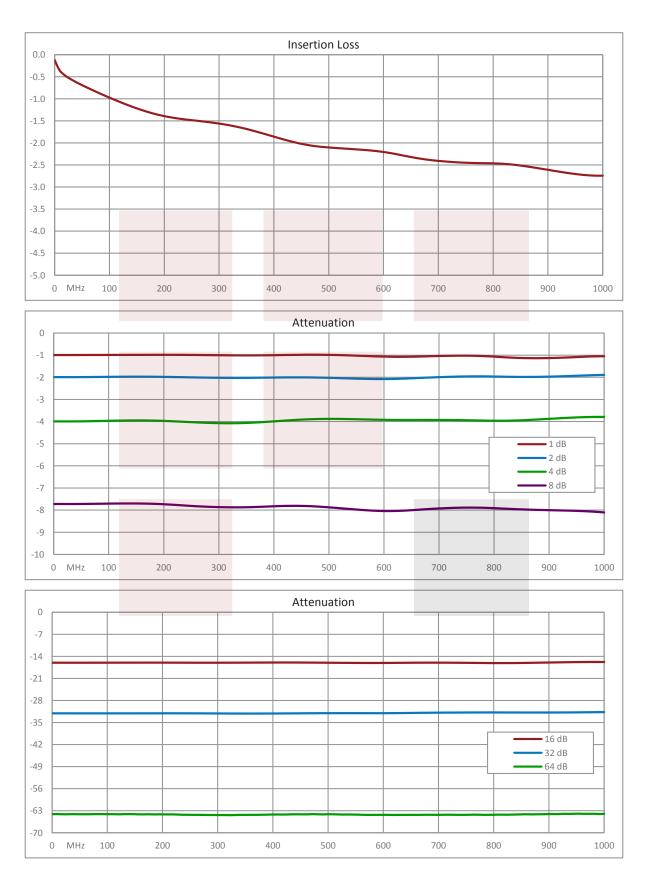
Typical Performance Data















0 to 127 dB 8 Bit Programmable Relay Controlled Step Attenuator With a 1 dB Step F Female Rated To 1 Watt 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.

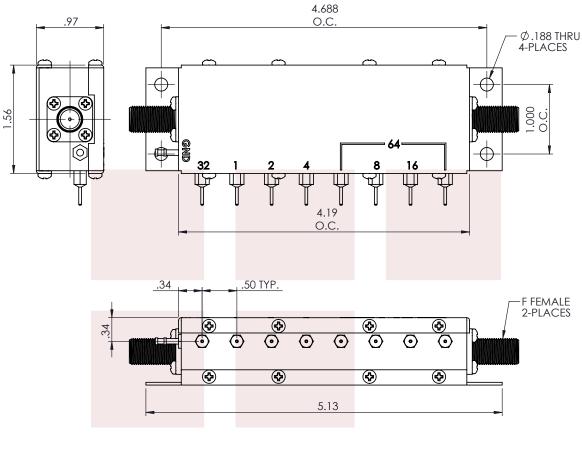
For additional information on this product, please click the following link: 0 to 127 dB 8 Bit Programmable Relay Controlled Step Attenuator With a 1 dB Step F Female Rated To 1 Watt Up To 1,000 MHz FMAT8004

URL: https://www.fairviewmicrowave.com/127-db-relay-controlled-step-attenuator-f-female-fmat8004-p.aspx



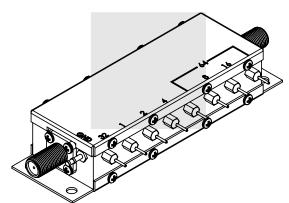






STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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TITLE	FMAT8004			CAGE CODE 3FKR5			
0 to 127 dB 8 Bit Programmable Relay Controlled Sten	CAD FILE 061317	SHEET	SCAL	E N/A	SIZE A	0157	

0 to 127 dB 8 Bit Programmable Relay Controlled Step Attenuator With a 1 dB Step F Female Rated To 1 Watt

Up To 1,000 MHz