



0 to 95 dB Programmable USB Controlled Step Attenuator with a 1 dB Step SMA Female to SMA Female from 200 MHz to 6 GHz

The FMAT8009 is an 8 Bit USB Controlled Solid State Programmable Attenuator which operates over a broadband frequency range of 200 MHz to 6000 MHz. The 50 ohm solid state design supports a USB interface and MS .NET 4.0+ framework. A downloadable USB test software manual is available. The FMAT8009 has an attenuation range that covers 0 to 95.5 dB in 0.5 dB steps. Attenuation steps are 0.5, 1, 2, 4, 8, 16, 32, and 32 dB. Insertion loss is 4.5 dB typical with a maximum RF input power of +33 dBm. Additional typical performacne includes +/- 0.75 dB attenuation accuracy, and swtiching speed < 1 microsecond. Operational temperature range is -40°C to +85°C, and the DC supply is +5 Vdc @ 2 mA nominal. The compact and rugged package design supports SMA female RF input/output connectors, and a USB Mini-B connector for DC and TTL controls. A 6' USB A to USB Mini-B cable is included.

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

Description	Min	-	Тур	Max	Unit
Frequency Range	0.2			6	GHz
Impedance			50		Ohms
Mean Attenuation Range	0			95	dB
Insertion Loss			4.5	8	dB
VSWR			1.6:1	1.8:1	
DC Voltage			+5		Vdc
DC Current			2		mA
Accuracy of Attenuation					dB
0.5 dB to 7.5 dB			±0.5		dB
8 dB to 15.5 dB		:	±0.75		dB
16 dB to 95.5 dB			±0.1		dB
Step Size	1				dB
Switching Time			1	4,000	us
RF Input Power (Operation			27	dBm	
			33	dBm	
RF Input Power (No Dan	lage- iliput side)			33	ubili

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	0.2-0.2	0.2-0.8	0.8-2	2-6		GHz
Insertion Loss, Ty	p 2.9	3.3	4	7.7		dB

Electrical Specification Notes:

0.5, 1, 2, 4, 8, 16, 32, and 32 dB bit Attenuation Steps

Mechanical Specifications

Size

Weight 0.45 lbs [204.12 g]
Connector 1 SMA Female
Connector 2 SMA Female



Features:

- USB Controlled 8 Bit Solid State
 Programmable Attenuator
- Frequency Range 200 MHz to 6 GHz
- Attenuation Range: 0 to 95.5 dB in 0.5 dB steps
- Attenuation Steps: 0.5, 1, 2, 4, 8, 16, 32, 32 dB
- Insertion Loss 4.5 dB typ
- Attenuation Accuracy
 +/- 0.75 dB typ
- Swtiching Speed < 1 microseconds typ
- Max RF Input Power +33 dBm
- DC Voltage +5 Vdc
- DC Current 2 mA typ
- 50 Ohm Design
- -40°C to +85°C Operating Temperature
- SMA Female Connectors
- USB Mini-B connector for DC and TTL controls
- Rugged Mil Grade Package Design

Applications:

- Military & Commercial Communication Systems
- Microwave Radio Systems
- Radar Systems
- Test & Measurement
- Research & Development
- · RF Wideband Front Ends

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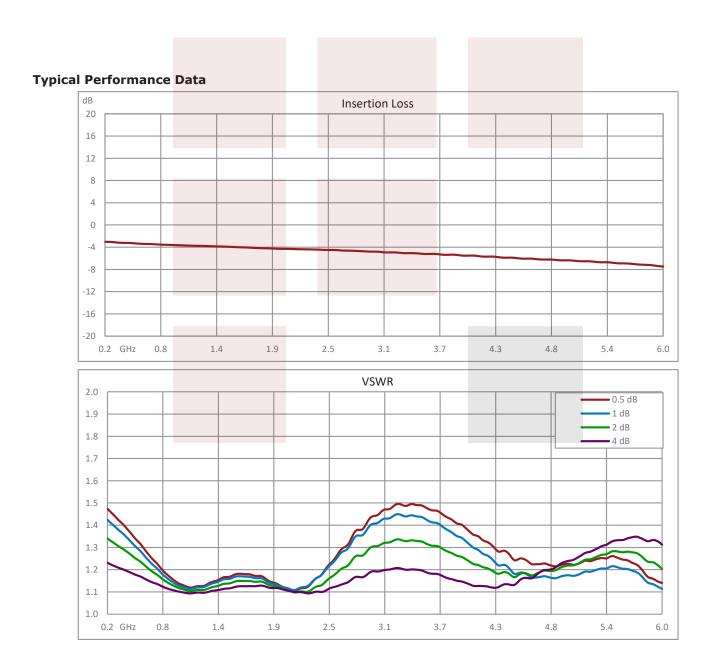
Environmental Specifications Temperature

-40 to +85 deg C Operating Range

Compliance Certifications (see product page for current document)

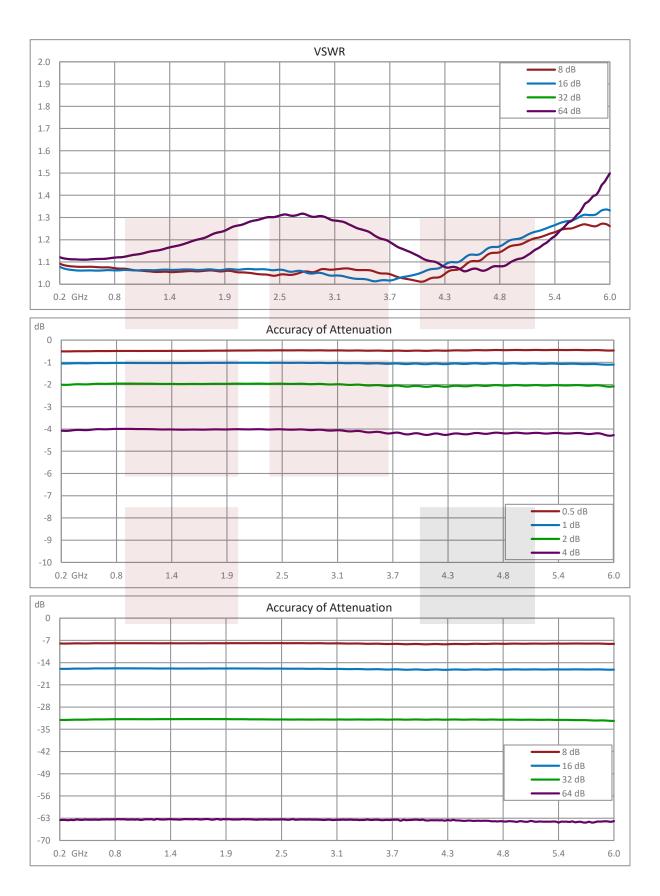
Plotted and Other Data

Notes:













0 to 95 dB Programmable USB Controlled Step Attenuator with a 1 dB Step SMA Female to SMA Female from 200 MHz to 6 GHz 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 95 dB Programmable USB Controlled Step Attenuator with a 1 dB Step SMA Female to SMA Female from 200 MHz to 6 GHz FMAT8009

URL: https://www.fairviewmicrowave.com/0-to-95-db-programmable-usb-controlled-step-attenuator-with-a-1-db-step-sma-female-to-sma-female-from-200-mhz-to-6-ghz-fmat8009-p.aspx







