



2 GHz to 12 GHz Field Replaceable SMA Positive Slope Equalizer, Max Pin +30, 1.5 dB Loss and 8 Fixed Equalizing Value

The FMAT9009 is a Positive Slope Equalizer module that covers a broaband frequency range from 2 GHz to 12 GHz and exhibits a fixed attenuation response that increases linearly with frequency. The 50 Ohm design has a positive slope equalizing value of 8 dB typical at 2 GHz. Positive Slope Equalizers are particularly useful in compensating for gain variation in systems where excessive losses occur at the lower end of the frequency band which may be due to low pass filtering effects in RF & Microwave systems and high-speed digital systems, or from long lengths of waveguide transmission. Impressive performance includes low insertion loss of 1.5 dB typ, 1.8:1 typ VSWR, and maximum RF input power handling of +30 dBm. The rugged and compact package design supports field replaceable SMA female connectors, operates across a wide temperature range of -20°C to +60°C, and can withstand relative humidity levels up to 95%.

Description	Min		Тур	Max	Units
Frequency Range	2			12	GHz
Small Signal Insertion Lo	OSS		1.5	2.5	dB
Equalizing Type		F	Positive		
Equalizing Value	7		8	9	dB
Input VSWR			1.8:1	2:1	
Output VSWR			1.8:1	2:1	
Impedence(IN/Out)			50		Ω
RF Input Power				+30	dBm

Mechanical	Specifications
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Input Connector	SMA Female (Field Replaceable)
Output Connector	SMA Female (Field Replaceable)
Lenght	0.79in [20.07mm]
Width	0.63in [16mm]
Height	0.39in [9.91mm]
Weight	0.04lbs

Environmental

Temperature	
Operating Range	-20 to +60 °C
Storage Range	-40 to +65 °C
Humidity	95% Non-Condensing



Features:

- Positive Slope Equalizer Module
- Frequency Range: 2
 GHz to 12 GHz
- 8 dB Fixed Equalizing Value
- Insertion Loss: 1.5 dB typ
- VSWR: 1.8:1 typ
 Maximum RF Input Power: +30 dBm
- 50 Ohm Design
- Field Replaceable SMA Connectors
- Compact Package Design withstands up to 95% Relative Humidity
- -20°C to +60°C Operating Temperature

Applications:

- Low Pass Filtering Compensation
- Cable or Waveguide Loss Compensation
- Amplifier Flatness Compensation
- Microwave Radio
- RF Transceivers
- SATCOM
- Test & Measurement
- Telecom Infrastructure

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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at +25 °C, sea level

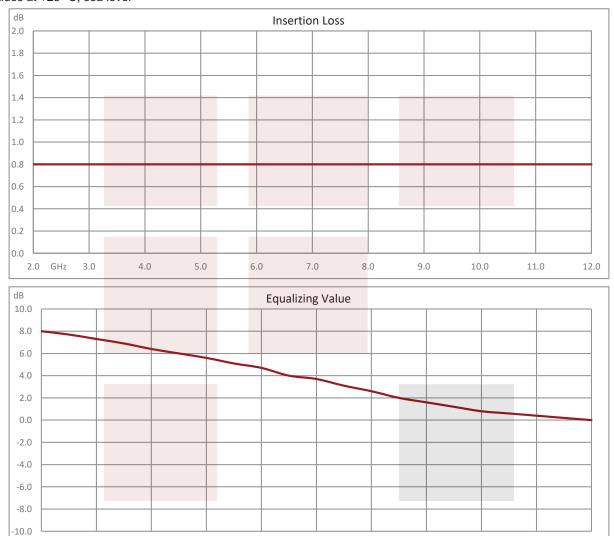
2.0 GHz

3.0

4.0

5.0

6.0



7.0

8.0

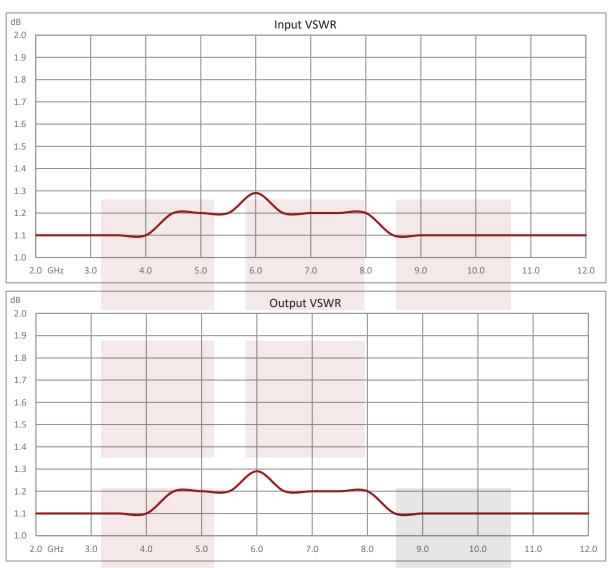
9.0

10.0

11.0







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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2 GHz to 12 GHz Field Replaceable SMA Positive Slope Equalizer, Max Pin +30, 1.5 dB Loss and 8 Fixed Equalizing Value FMAT9009

URL: https://www.fairviewmicrowave.com/undefined-url-for-pn-fmat9009-fmat9009-p.aspx

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