



# Negative Slope Equalizer, 6 GHz to 18 GHz, 6 dB Fixed Equalizing Value, 0.7 dB Loss, Max Pin 150 mW, SMA

The FMAT9031 is a Negative Slope Equalizer module that covers a frequency range from 6 GHz to 18 GHz and exhibits a fixed attenuation response that decreases linearly with frequency. The 50 Ohm design has an equalizing value of 6 dB typical at 18 GHz. Negative slope equalizers are particularly useful in compensating the gain slope in systems where large amounts of cabling may cause exessive loss at higher frequencies over the operating band. Impressive typical performance includes low insertion loss of 0.7 dB, 1.6:1 VSWR, +/- 0.75 dB linearity, and maximum RF input power handling of +21.8 dBm. The rugged and compact package design supports field replaceable SMA female connectors, operates across a wide temperature range of  $-55^{\circ}$ C to  $+95^{\circ}$ C, and meets MIL-E-5400 and MIL-E-16400 environmental requirements.

Description	Min		Тур	Max	Units
Frequency Range	6			18	GHz
Small Signal Insertion Lo	OSS		0.7		dB
Equalizing Type		N	legative		
Input VSWR			1.6:1		
Output VSWR			1.6:1		
Impedence(IN/Out)			50		Ohms
RF Input Power				21.8	dBm
Linearity		+	/-0.75		dB

# **Mechanical Specifications**

Input Connector	SMA Female (Field Replaceable)
Output Connector	SMA Female (Field Replaceable)
Lenght	0.59in 14.99mm
Width	0.63in 16mm
Height	0.39in 9.91mm
Weight	0.03lbs

## Environmental

Temperature
Operating Range
O to +90 deg C
Storage Range
-45 to +125 deg C

### **Compliance Certifications** (see for current document)

#### **Plotted and Other Data**

#### Notes:

Values at +25 °C, sea level



# **Features:**

- · Negative Slope Equalizer Module
- Frequency Range 6 GHz to 18 GHz
- 6 dB Fixed Equalizing Value
- Insertion loss 0.7 dB typ
- VSWR 1.6:1 typ
- Linearity +/- 0.75 dB
- Maximum RF Input Power +21.8 dBm
- Operational Temperature Range -55°C to +95°C
- Field Replaceable SMA
   Female Connectors
- Rugged Mil Grade Aluminum Package Design
- Designed to meet MIL-E-5400 and MIL-E 16400 environmental requriements

# **Applications:**

- Gain Slope Compensation in Systems with excessive loss at hinger frequencies over the Operating Band
- Aerospace & Defense
- Test & Measurement
- Microwave Radio Systems
- Military & Commercial Communication Systems
- Research & Development
- SATCOM
- Wireless Communications

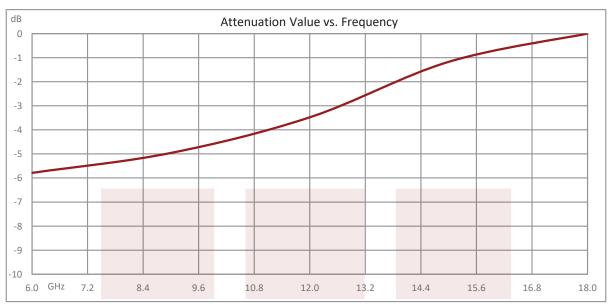
Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

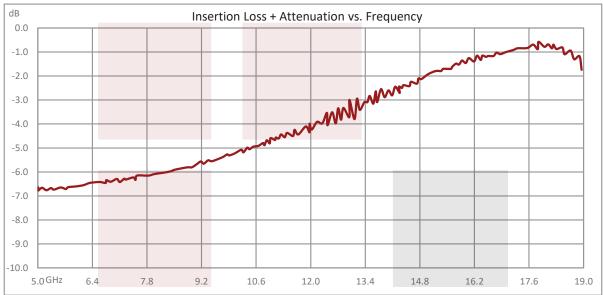
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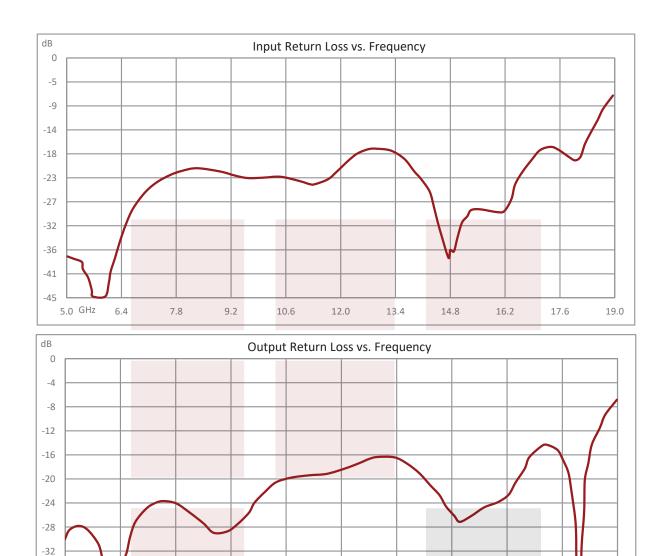




-36 -40

5.0 GHz





Negative Slope Equalizer, 6 GHz to 18 GHz, 6 dB Fixed Equalizing Value, 0.7 dB Loss, Max Pin 150 mW, SMA from Pasternack Enterprises has same day shipment for domestic and International orders Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

12.0

13.4

14.8

16.2

17.6

19.0

10.6

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Negative Slope Equalizer, 6 GHz to 18 GHz, 6 dB Fixed Equalizing Value, 0.7 dB Loss, Max Pin 150 mW, SMA FMAT9031

7.8

9.2





URL: https://www.fairviewmicrowave.com/6-ghz-to-18-ghz-field-replaceable-sma-Aegative-slope-equalizer-fmat9031-p. aspx

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