Fairview Microwave

500 MHz to 2 GHz Field Replaceable SMA Positive Slope Equalizer, Max Pin +30, 1 dB Loss and 4 Fixed Equalizing Value

The FMAT9001 is a Positive Slope Equalizer module that covers a frequency range from 500 MHz to 2000 MHz and exhibits a fixed attenuation response that increases linearly with frequency. The 50 Ohm design has a positive slope equalizing value of 4 dB typical at 500 MHz. 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 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 | 0.5 | | | 2 | GHz |
| Small Signal Insertion Lo | DSS | | 1 | 2.5 | dB |
| Equalizing Type | | F | ositive | | |
| Equalizing Value | 3.2 | | 4 | 4.8 | dB |
| Input VSWR | | | 1.8:1 | 2.5:1 | |
| Output VSWR | | | 1.8:1 | 2.5:1 | |
| Impedence(IN/Out) | | | 50 | | Ω |
| RF Input Power | | | | +30 | dBm |
| | | | | | |

Mechanical Specifications

| Input Connector | | SMA Female (Field Replaceable) | | | |
|------------------|--|-----------------------------------|--|--|--|
| Output Connector | | SMA Female (Field Replaceable) | | | |
| Lenght | | 0.98in [24.89mm] | | | |
| Width | | 0.87in [22.1mm] | | | |
| Height | | 0.39in [9.91mm] | | | |
| Weight | | 0.05lbs | | | |
| Environmental | | | | | |

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



FMAT9001

DATA SHEET

Features:

- Positive Slope Equalizer Module
- Frequency Range: 500
 MHz to 2000 MHz
- 4 dB Fixed Equalizing Value
- Insertion Loss: 1 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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com an INFINIT® brand

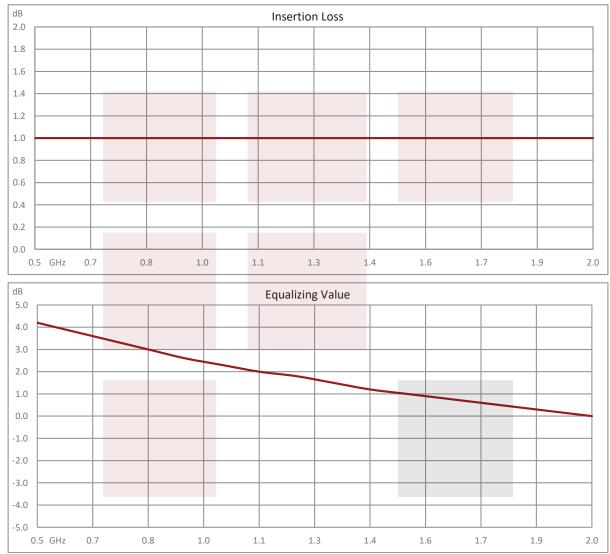


Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at +25 °C, sea level

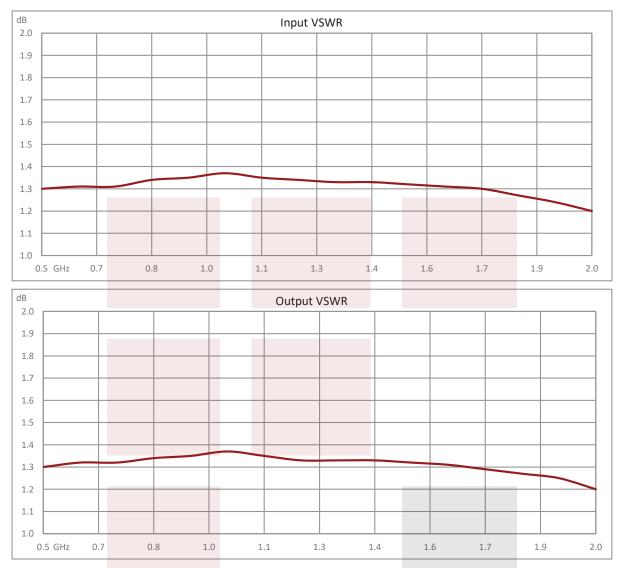


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500 MHz to 2 GHz Field Replaceable SMA Positive Slope Equalizer, Max Pin + 30, 1 dB Loss and 4 Fixed Equalizing Value from Pasternack Enterprises has same day shipment for domestic and International orders Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 500 MHz to 2 GHz Field Replaceable SMA Positive Slope Equalizer, Max Pin +30, 1 dB Loss and 4 Fixed Equalizing Value FMAT9001

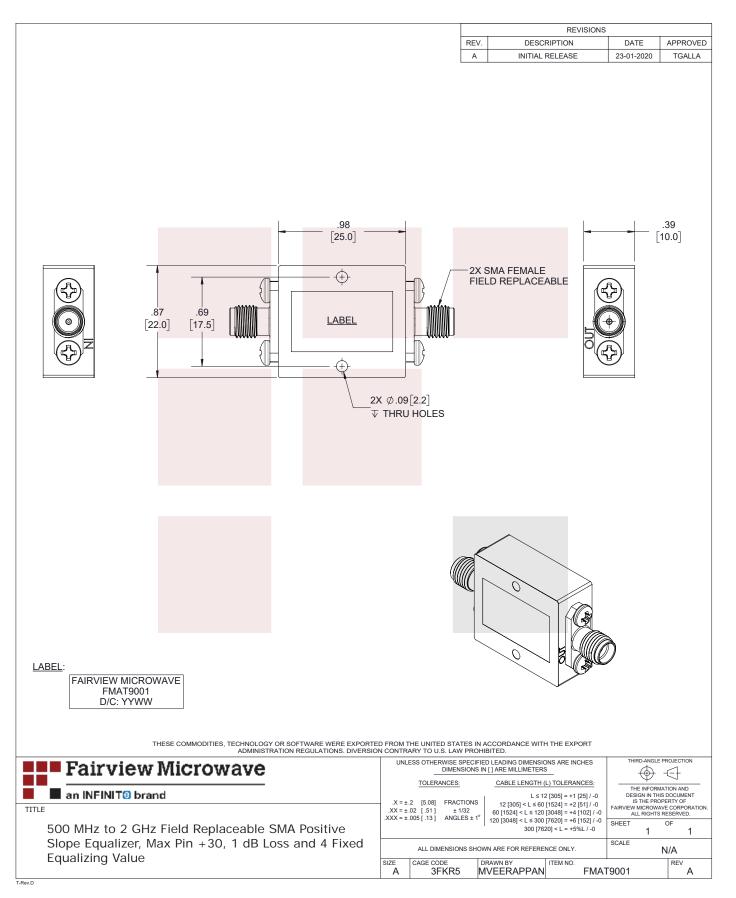
URL: https://www.fairviewmicrowave.com/undefined-url-for-pn-fmat9001-fmat9001-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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