

## 20 GHz to 40 GHz, 60 dB Gain Broadband High Gain Amplifier with 10 dBm, 115 VAC and 2.92mm

FMAM3502 is a Portable Amplifier that operates over the 20.0 to 40.0 GHz Frequency Range. The amplifier has a typical gain of 60 dB and a P1dB of +10 dBm minimum. The amplifier has an On/Off switch that is located on the Front Panel. Input/Output Connectors are 2.92mm. The amplifier comes with a fuse and a 6 foot power cord. The rugged package is designed to meet a series of MIL-STD-202F environmental conditions including Humidity, Shock, Vibration, and Temperature Cycle.

### Electrical Specifications (TA= 25°C)

| Description  | Min | Typ        | Max | Unit |
|--|-----|------------|-----|------|
| Frequency Range  | 20  |            | 40  | GHz  |
| Gain   |     | 60         |     | dB   |
| Gain Flatness  |     |            | ±3  | dB   |
| P1dB   | +10 |            |     | dBm  |
| Noise Figure<br>(Only Measured to 26.5 GHz)                          |     | 5          |     | dB   |
| Input VSWR   |     |            | 2:1 |      |
| Output VSWR  |     |            | 2:1 |      |
| Operating AC Voltage<br>(Supplied with a fuse and 6 foot power cord) |     | 115, 60 Hz |     | VAC  |
| Operating Temperature Range (OTR)                                    | -40 |            | +85 | °C   |

### Mechanical Specifications

|                  |                     |
|------------------|---------------------|
| <b>Size</b>      |                     |
| Length           | 4.92 in [124.97 mm] |
| Width            | 4.92 in [124.97 mm] |
| Height           | 2.26 in [57.4 mm]   |
| Weight           | 3.314 lbs [1.5 kg]  |
| Input Connector  | 2.92mm Female       |
| Output Connector | 2.92mm Female       |

### Environmental Specifications

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Temperature</b>  |                                   |
| Operating Range     | -40 to +85 deg C                  |
| Storage Range       | -40 to +100 deg C                 |
| Humidity            | MIL-STD-202F, Method 103B COND. B |
| Shock               | MIL-STD-202F, Method 213B COND. B |
| Vibration           | MIL-STD-202F, Method 204D COND. B |
| Altitude            | MIL-STD-202F, Method 105C COND. B |
| Temperature Cycling | MIL-STD-202F, Method 107D COND. A |

### Compliance Certifications (see [product page](#) for current document)

### Plotted and Other Data

Notes:



### Features:

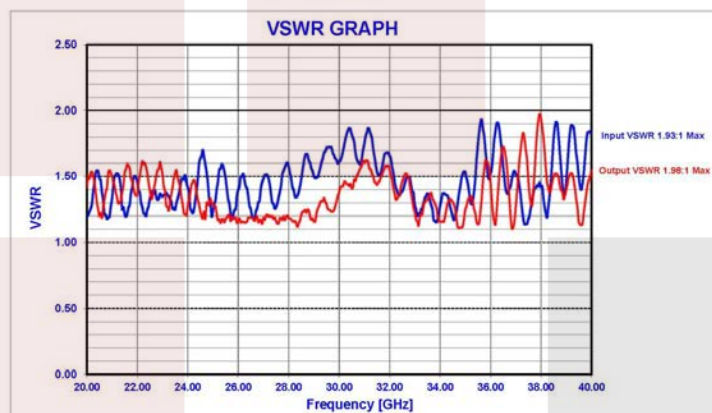
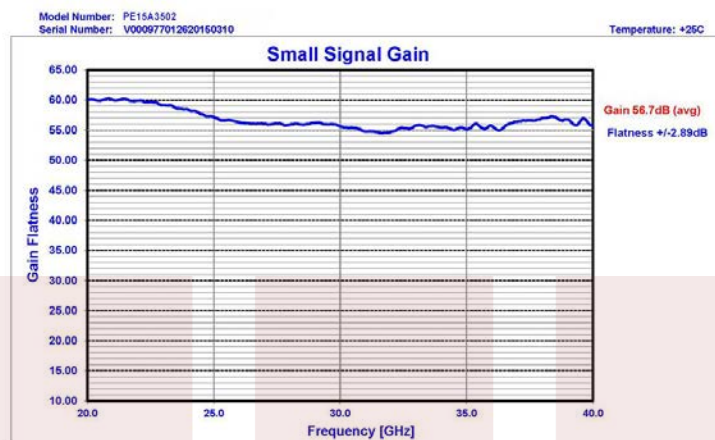
- 20.0 to 40.0 GHz Frequency Range
- Gain of 60 dB typ
- 115VAC
- On/Off Switch on Front Panel
- Gain Flatness of ±3.0 dB max
- P1dB of +10 dBm
- Input/Output Connectors 2.92mm Female.
- MIL-SPEC Compliant
- CE Approved

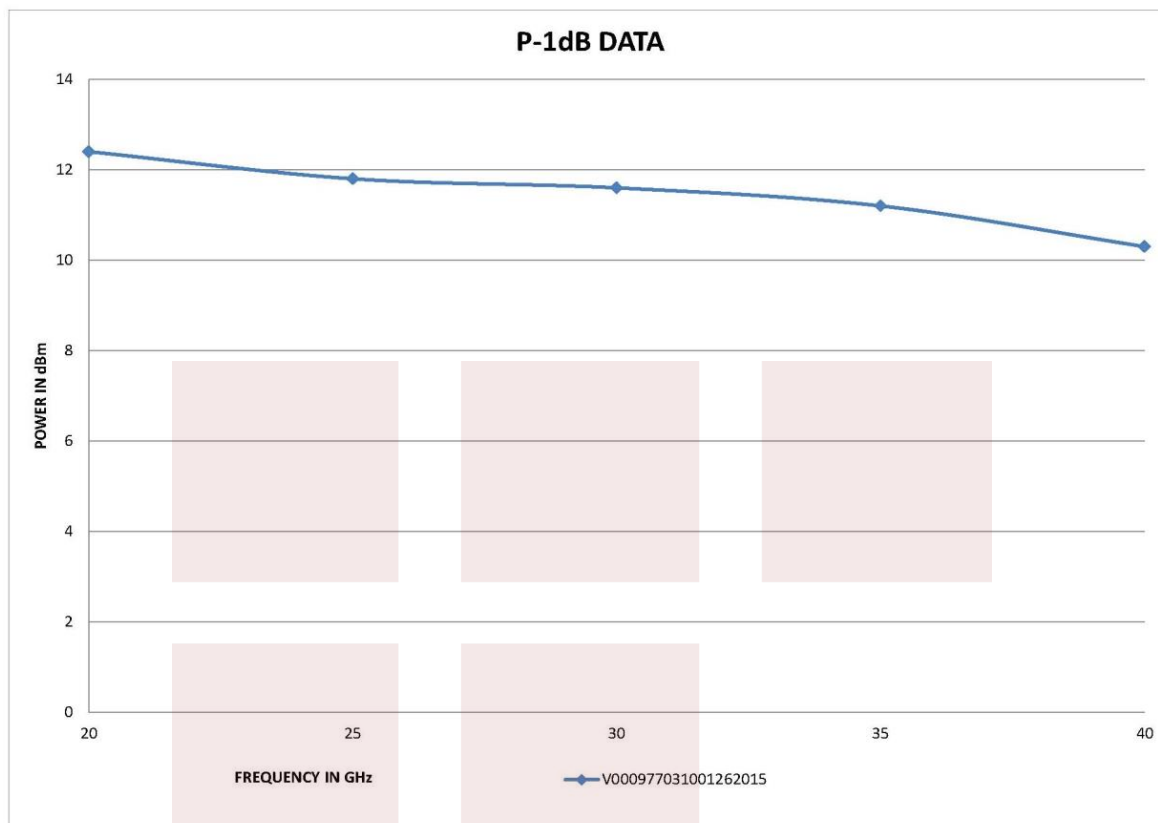
### Applications:

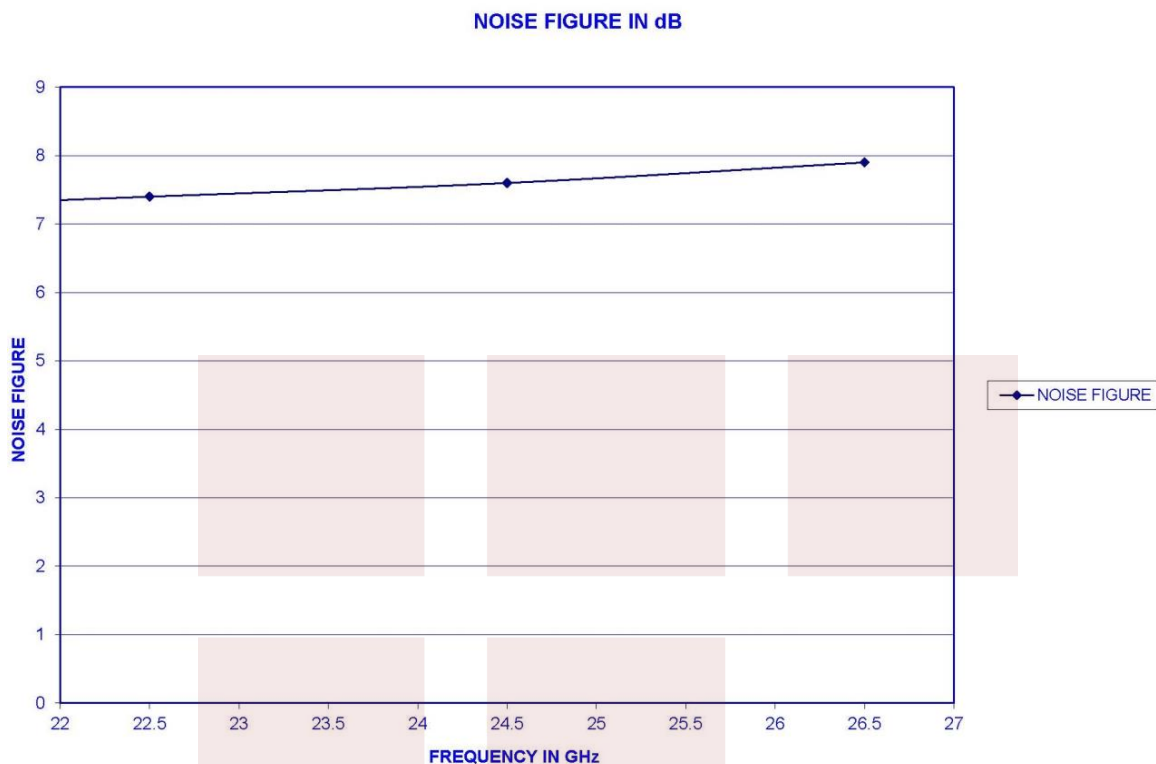
- Test and Measurement
- General Purpose Broadband High Gain Amplifier
- Lab Test Amplifier
- Portable Broadband Amplifier

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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Typical Performance Data





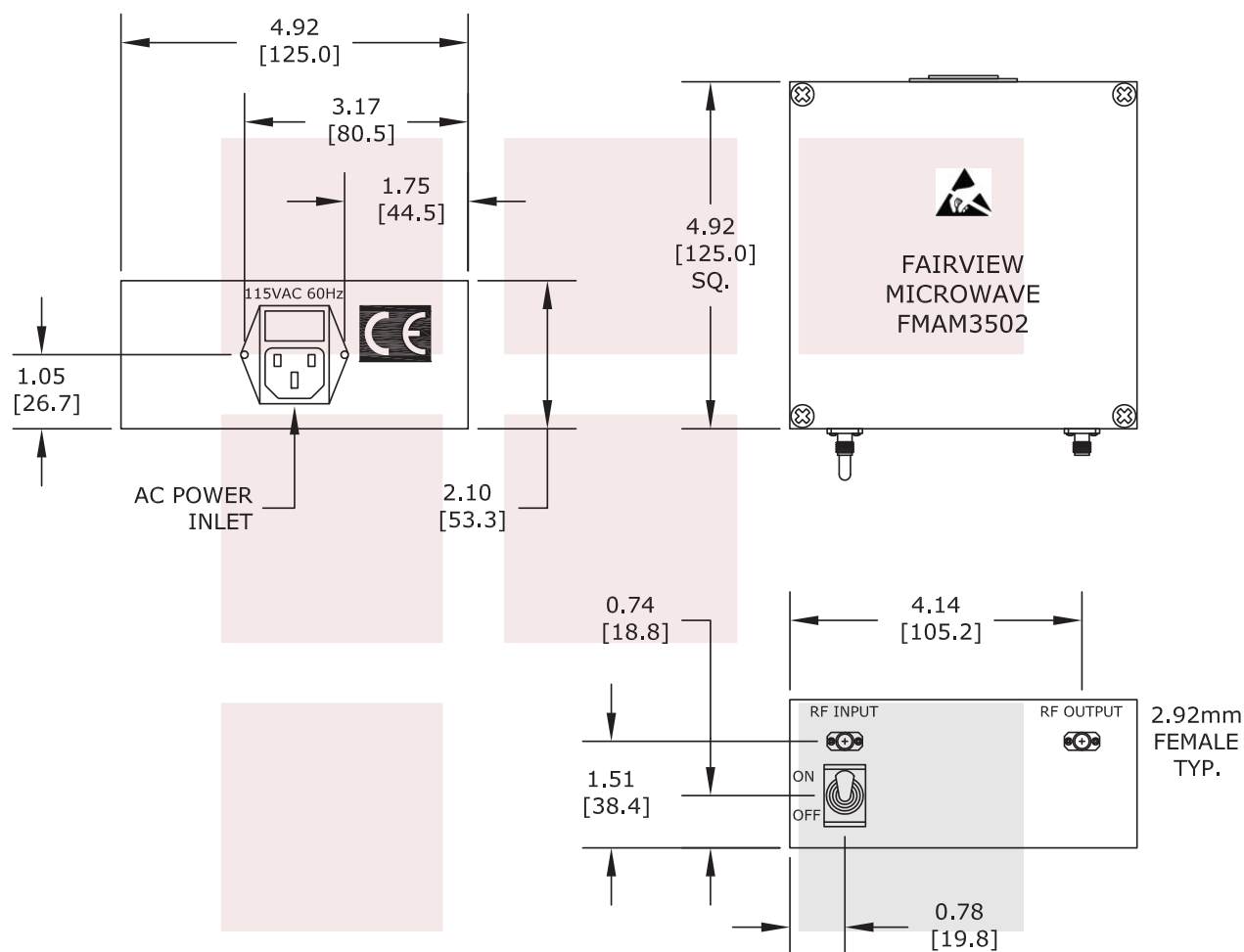


20 GHz to 40 GHz, 60 dB Gain Broadband High Gain Amplifier with 10 dBm, 115 VAC and 2.92mm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20 GHz to 40 GHz, 60 dB Gain Broadband High Gain Amplifier with 10 dBm, 115 VAC and 2.92mm FMAM3502](https://www.fairviewmicrowave.com/20-40-ghz-broadband-high-gain-amplifier-fmam3502-p.aspx)

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|   |        |   |       |                           |             |
|---|--------|---|-------|---------------------------|-------------|
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| TITLE<br>20 GHz to 40 GHz, 60 dB Gain Broadband High Gain Amplifier with 10 dBm, 115 VAC and 2.92mm |        | DWG NO<br><b>FMAM3502</b>   |       | CAGE CODE<br><b>3FKR5</b> |             |
| CAD FILE  | 020516 | SHEET   | SCALE | N/A                       | SIZE A 2233 |