

1 GHz to 40 GHz, 40 dB Gain Broadband High Gain Amplifier with 22 dBm and 2.92mm

FMAM3595 is a Portable Amplifier that operates over the 1.0 to 40.0 GHz Frequency Range. The amplifier has a typical gain of 40 dB and a P1dB of +22 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 amplifier can operate on either 120VAC or via an external 12VDC Battery Pack or Supply.



Electrical Specifications (TA= 25°C)

| Description | Min | Typ | Max | Unit |
|-----------------------------------|-----|-------|-----|-------|
| Frequency Range | 1 | | 40 | GHz |
| Gain | | 40 | | dB |
| Gain Flatness | | ±2.5 | | dB |
| P1dB | +22 | | | dBm |
| P1dB at 1 to 18 GHz | | +22 | | dBm |
| P1dB at 18 to 40 GHz | | +18 | | dBm |
| Input Power | | | +15 | dBm |
| Noise Figure (Mid-Band) | | 5 | | dB |
| Input VSWR | | 2.5:1 | | |
| Output VSWR | | 2.5:1 | | |
| Operating DC Voltage 1 (External) | | | 12 | Volts |
| Operating AC Voltage (External) | | 120 | | VAC |
| Operating Temperature Range (OTR) | -40 | | +85 | °C |

Mechanical Specifications

| | |
|------------------|---------------------|
| Size | |
| Length | 4.92 in [124.97 mm] |
| Width | 4.92 in [124.97 mm] |
| Height | 2.1 in [53.34 mm] |
| Weight | 2.737 lbs [1.24 Kg] |
| Input Connector | 2.92mm Female |
| Output Connector | 2.92mm Female |

Environmental Specifications

| | |
|--------------------|-----------------------------------|
| Temperature | |
| 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 |

Features:

- 1.0 to 40.0 GHz Frequency Range
- Gain of 40 dB typ
- On/Off Switch on Front Panel
- Gain Flatness of ±3.0 dB max
- P1dB of +22 dBm
- Input/Output Connectors 2.92mm Female
- AC or DC Supply operation

Applications:

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

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Temperature Cycling

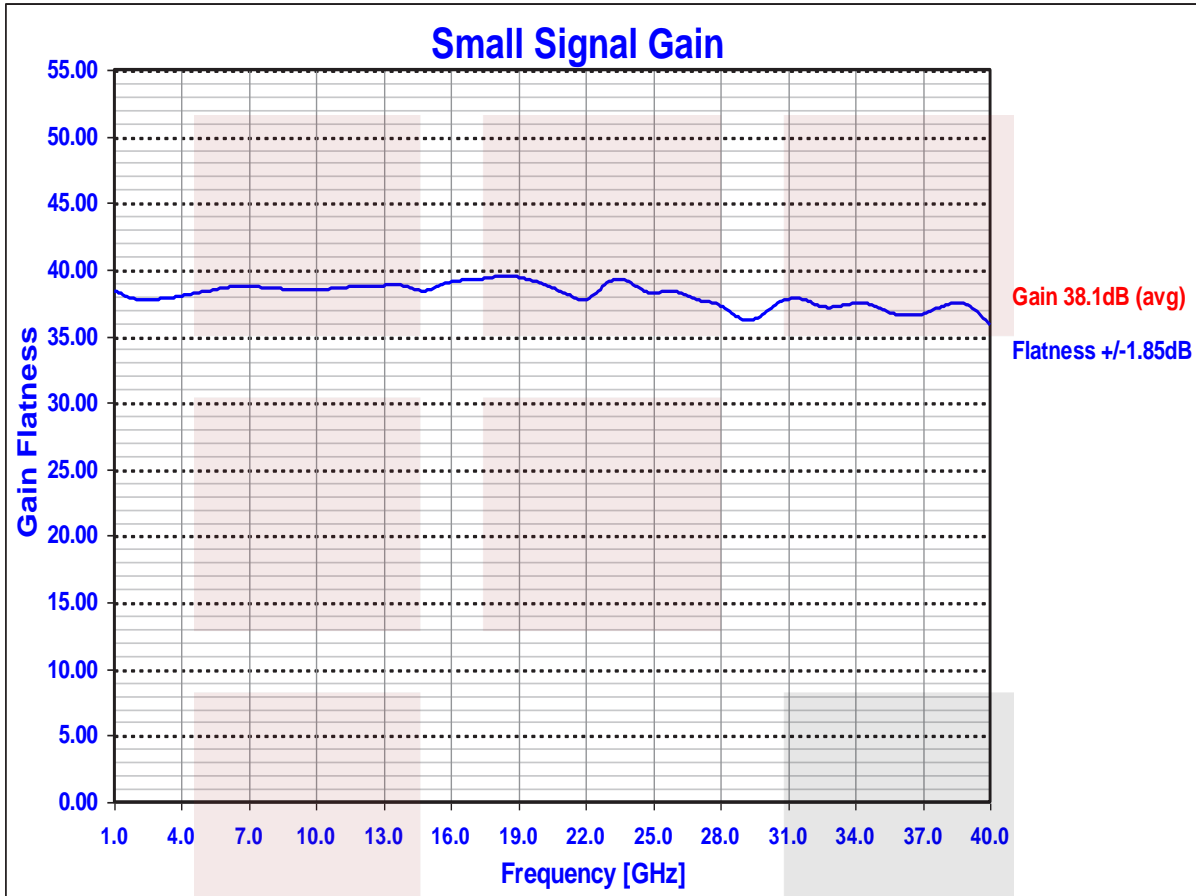
MIL-STD-202F, Method 107D COND. A

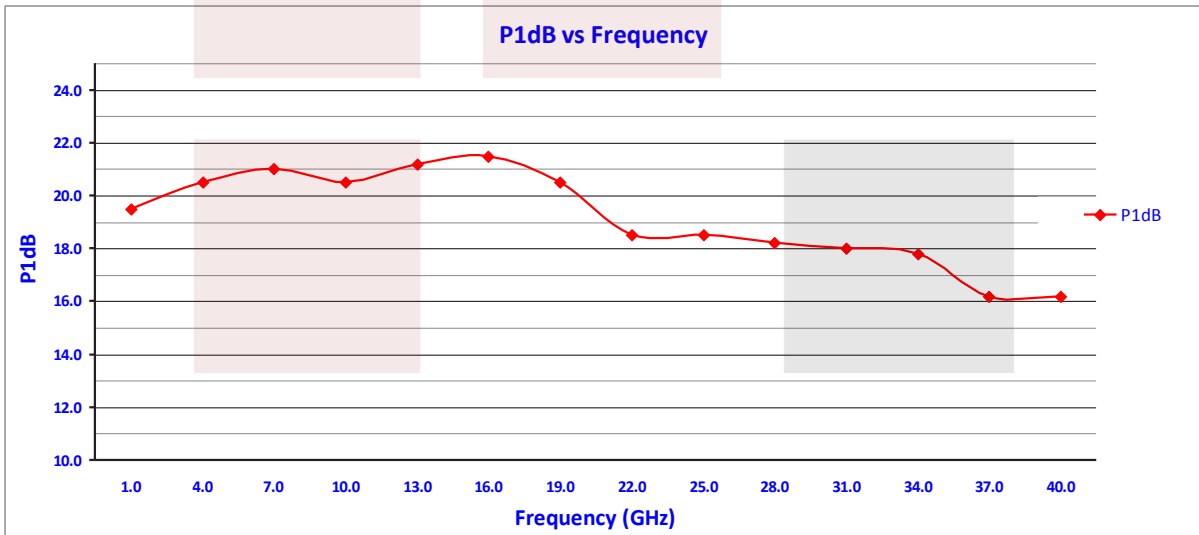
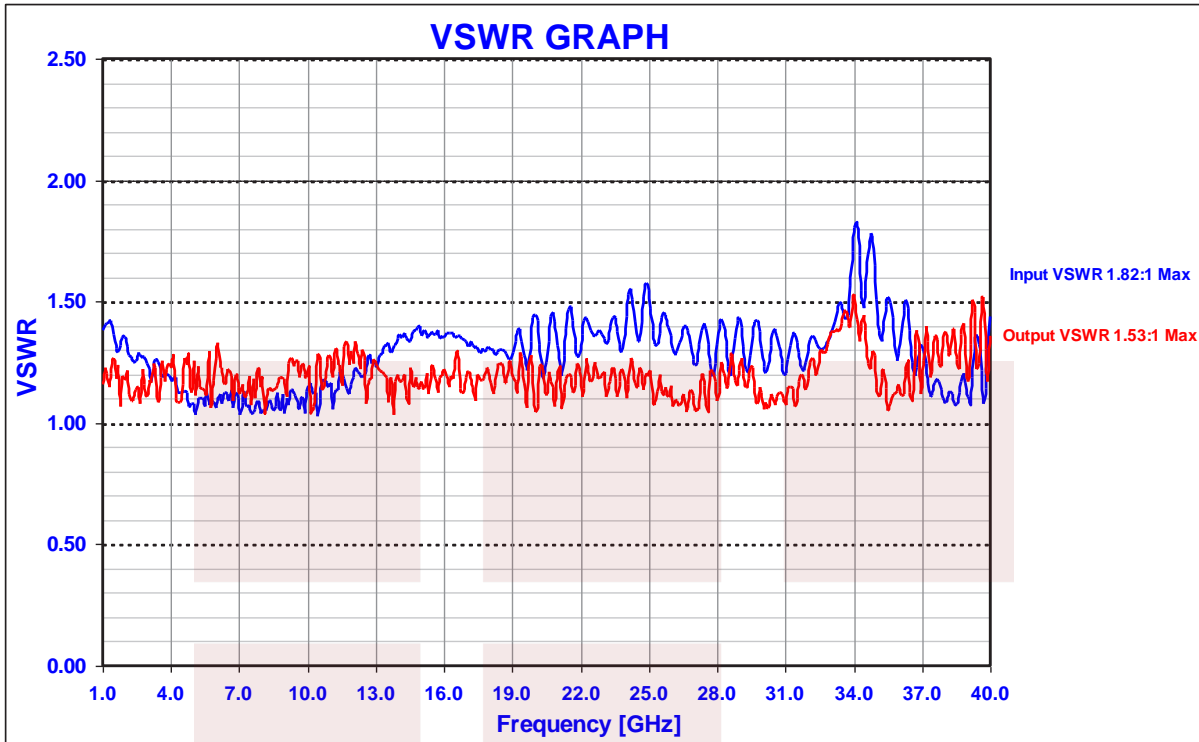
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



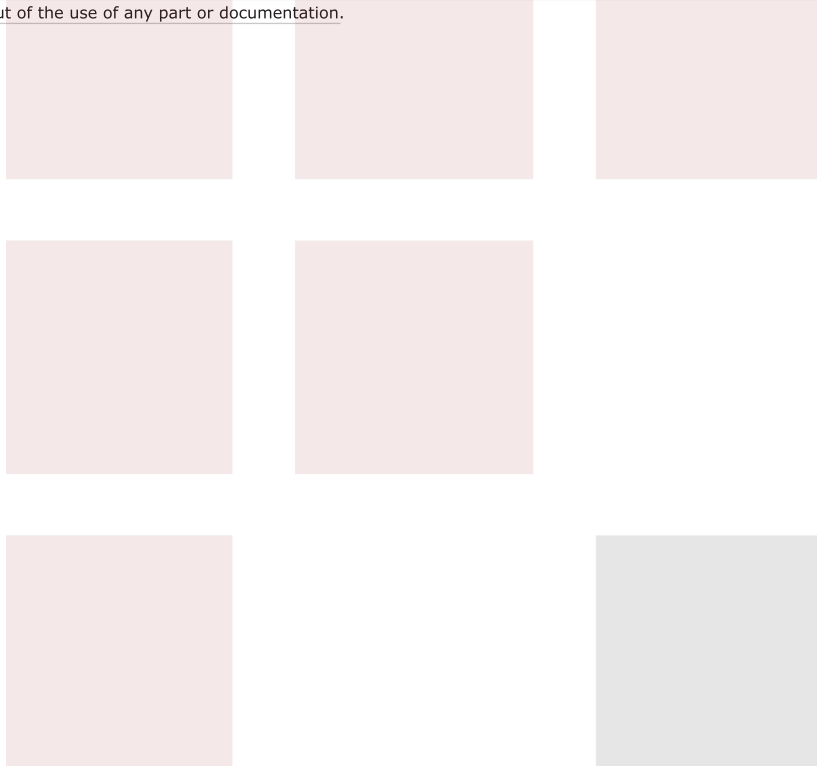


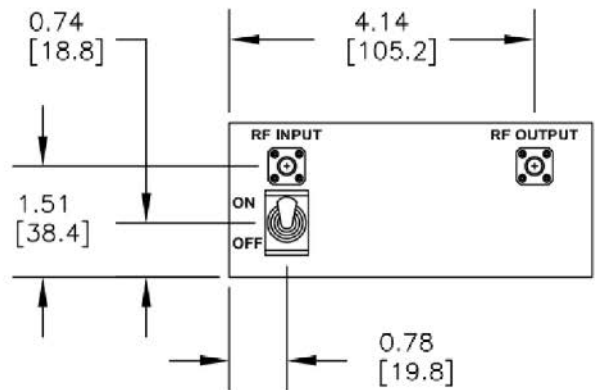
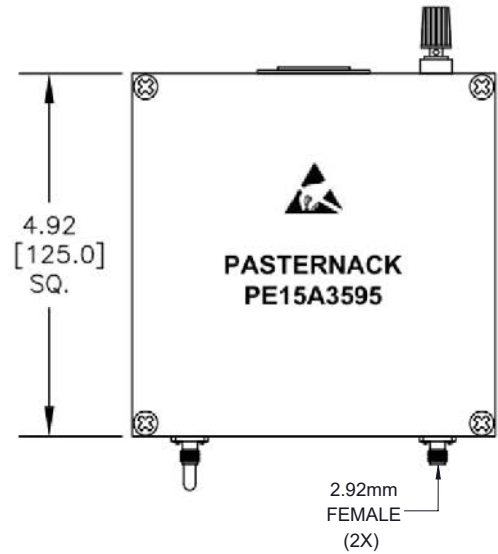
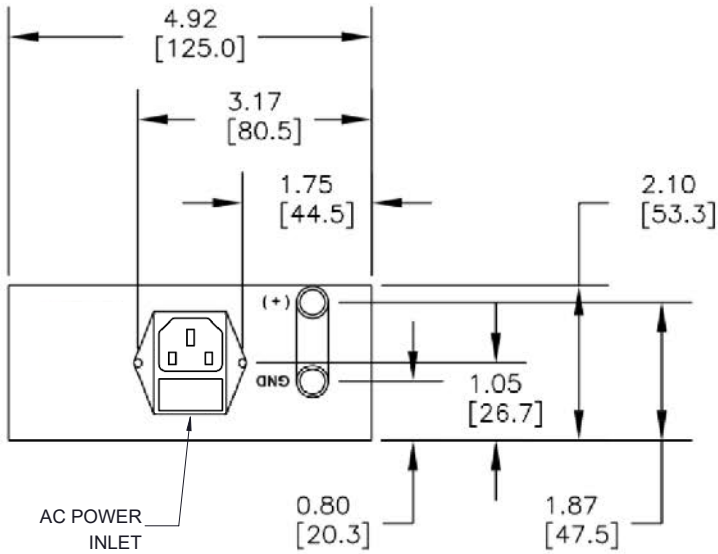
1 GHz to 40 GHz, 40 dB Gain Broadband High Gain Amplifier with 22 dBm and 2.92mm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [1 GHz to 40 GHz, 40 dB Gain Broadband High Gain Amplifier with 22 dBm and 2.92mm FMAM3595](#)

URL: <https://www.fairviewmicrowave.com/1-40-ghz-broadband-high-gain-amplifier-fmam3595-p.aspx>

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STANDARD TOLERANCES

.X ±0.2
 .XX ±0.01
 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | |
|---|--------|---|---------------------------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | |
| TITLE 1 GHz to 40 GHz, 40 dB Gain Broadband High Gain Amplifier with 22 dBm and 2.92mm | | DWG NO FMAM3595 | CAGE CODE 3FKR5 |
| CAD FILE | 120517 | SHEET | 1 OF 1 |
| SCALE | N/A | SIZE | A |
| | | 7361 | |