

1 GHz to 40 GHz, 40 dB Gain Broadband High Gain Amplifier with 22 dBm, 120 VAC and 2.92mm

The 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. 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	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
(External) Operating AC Voltage		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



Features:

- 1.0 to 40.0 GHz Frequency Range
- Gain of 40 dB typ
- 120VAC
- 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
- MIL-SPEC Compliant
- CE Approved

Applications:

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

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Vibration
Altitude
Temperature Cycling

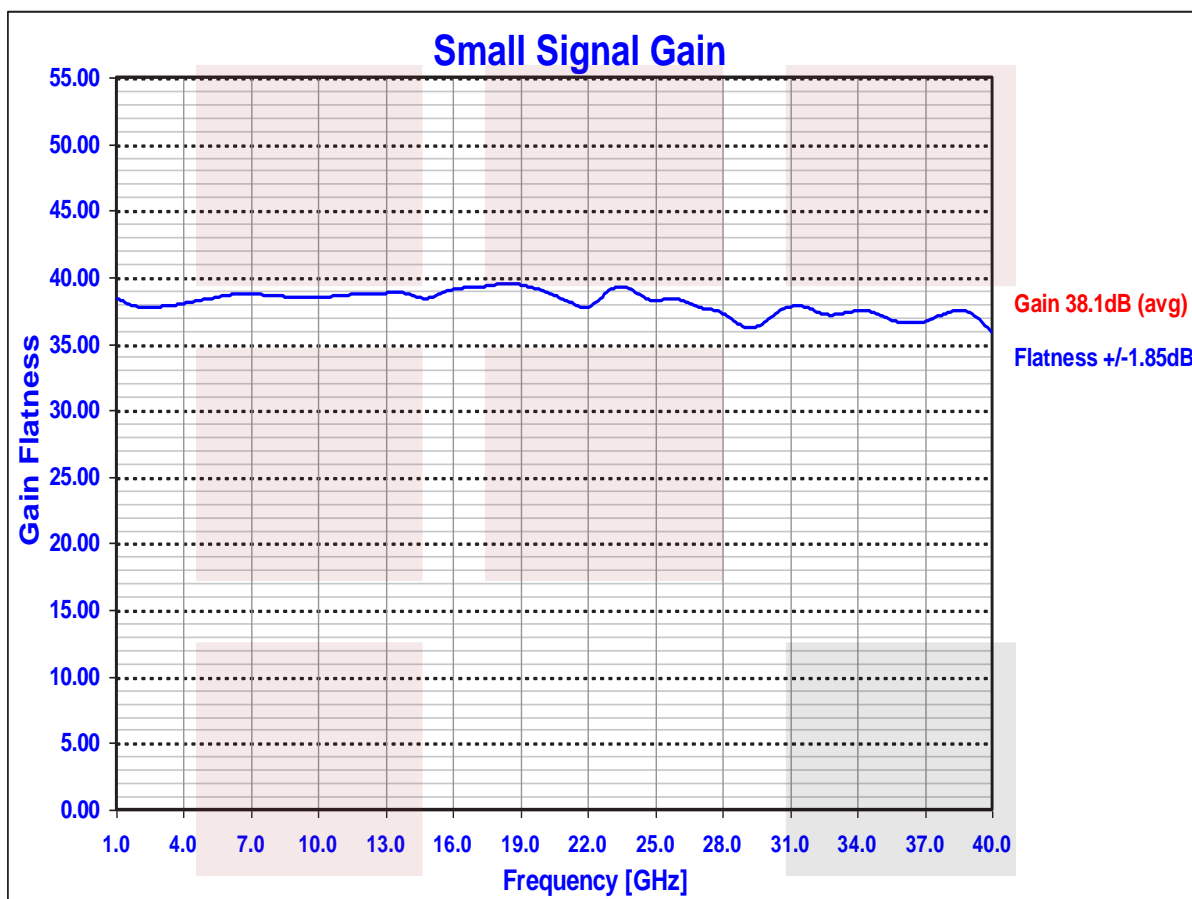
MIL-STD-202F, Method 204D COND. B
MIL-STD-202F, Method 105C COND. B
MIL-STD-202F, Method 107D COND. A

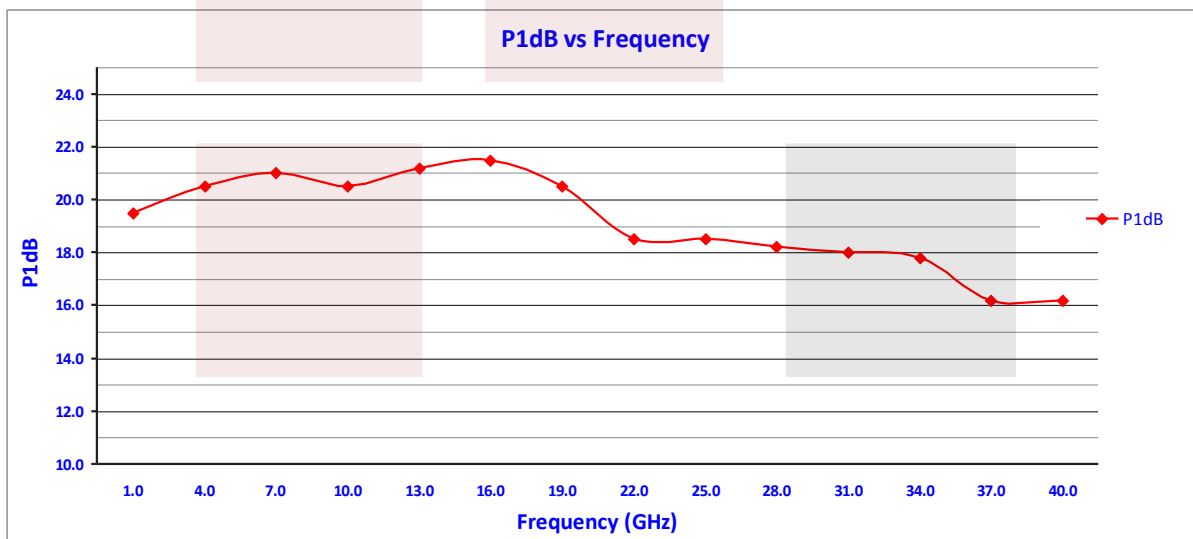
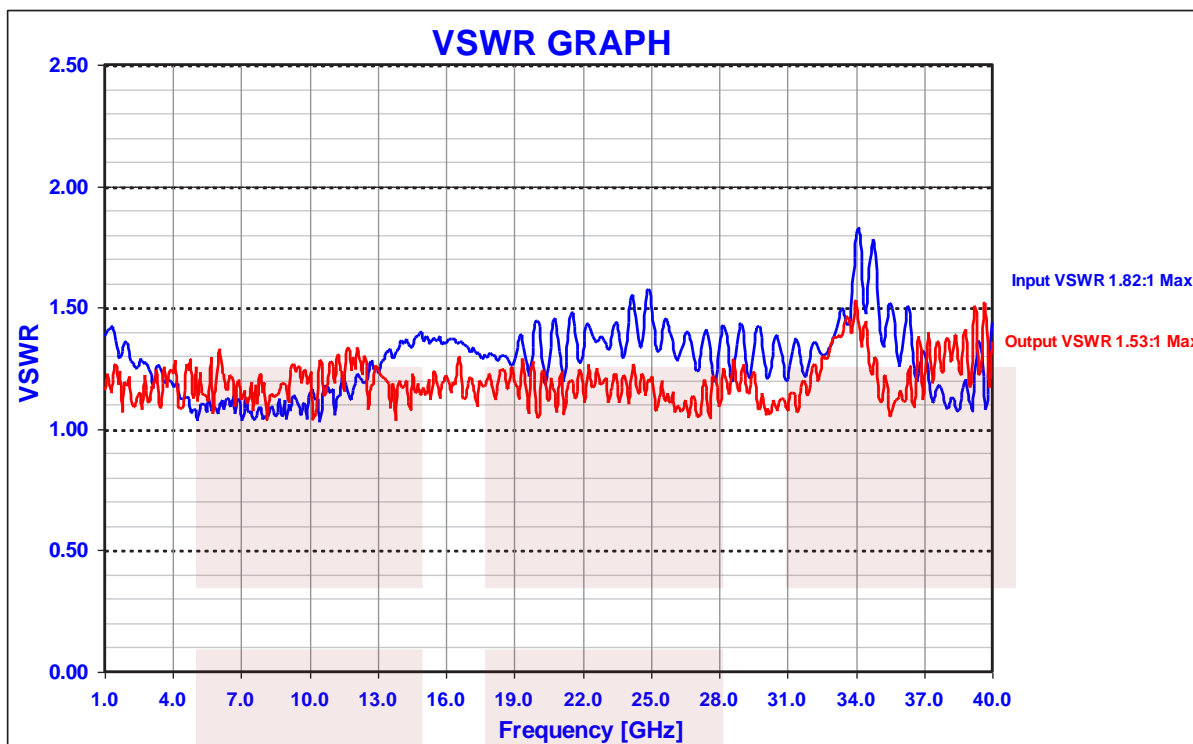
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



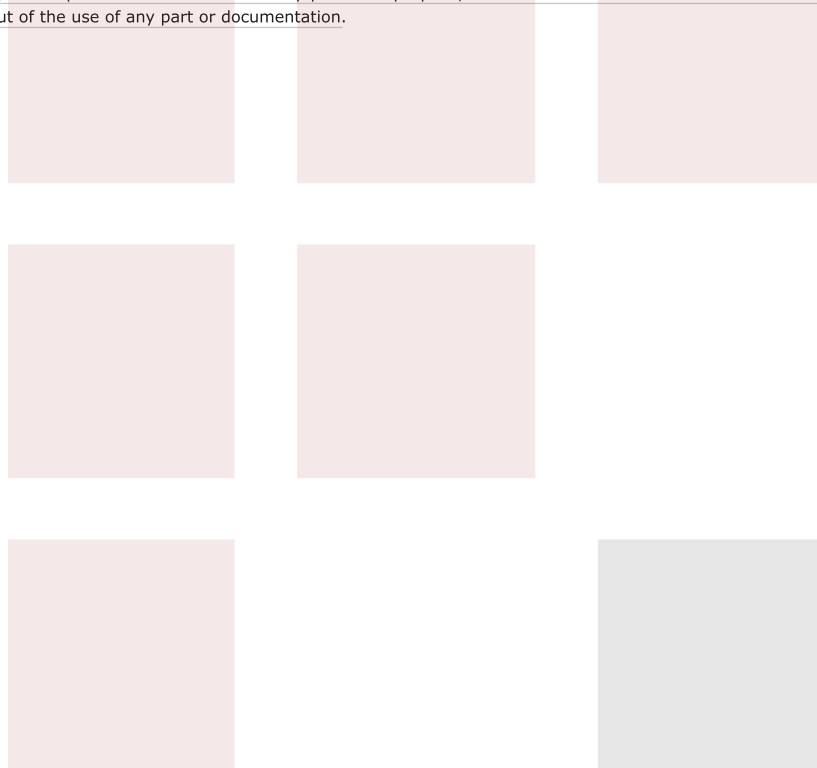


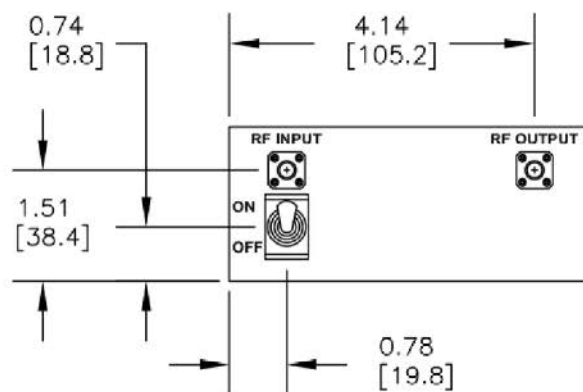
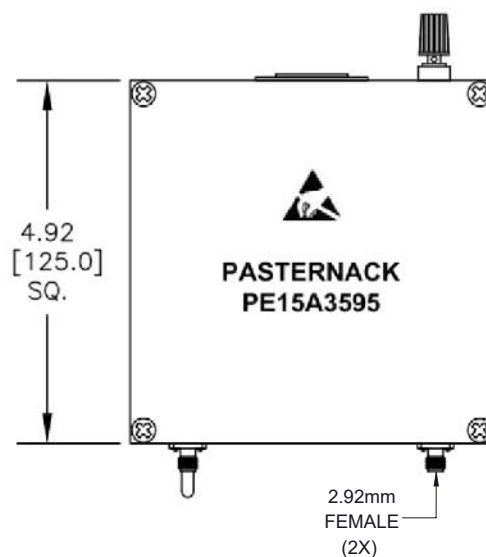
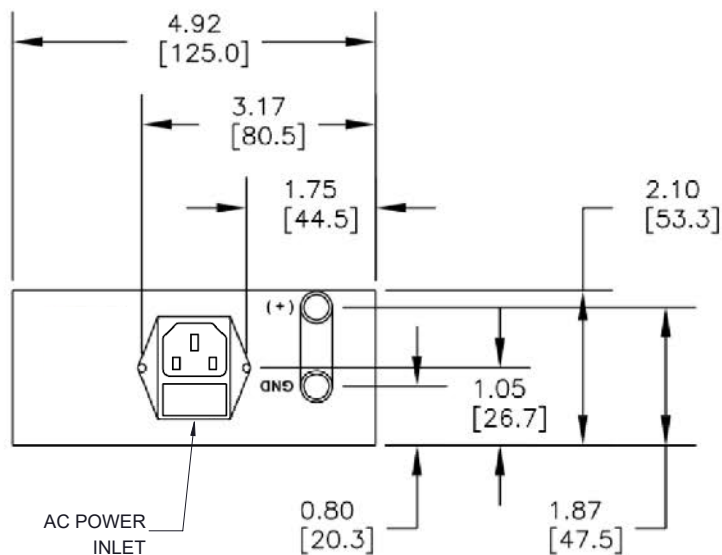
1 GHz to 40 GHz, 40 dB Gain Broadband High Gain Amplifier with 22 dBm, 120 VAC and 2.92mm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [1 GHz to 40 GHz, 40 dB Gain Broadband High Gain Amplifier with 22 dBm, 120 VAC and 2.92mm FMAM3595](#)

URL: <https://www.fairviewmicrowave.com/1-40-ghz-broadband-high-gain-amplifier-fmam3595-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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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

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Amplifier with 22 dBm, 120 VAC and 2.92mm

DWG NO

FMAM3595

CAGE CODE

3FKR5

CAD FILE

120517

SHEET

1 OF 1

SCALE N/A

SIZE A

7361