

**1 GHz to 20 GHz, 60 dB Gain Broadband High Gain Amplifier with 10 dBm and SMA**

FMAM3500 is a Portable Amplifier that operates over the 1.0 to 20.0 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 SMA Female. The amplifier comes with a fuse and a 6 foot power cord.



**Electrical Specifications** (TA = +25°C)

Description	Min	Typ	Max	Unit
Frequency Range	1		20	GHz
Gain		60		dB
Gain Flatness		±3		dB
P1dB	+10			dBm
Noise Figure			5	dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating AC Voltage (Supplied with a fuse and 6 foot power cord)		115, 60 Hz		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]
Input Connector	SMA Female
Output Connector	SMA 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
Temperature Cycle	MIL-STD-202F, Method 107D COND. A

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

**Features:**

- 1.0 to 20.0 GHz Frequency Range
- Gain of 60 dB typ
- On/Off Switch on Front Panel
- Gain Flatness of ±3.0 dB typ
- P1dB of +10 dBm
- Input/Output Connectors SMA Female.

**Applications:**

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

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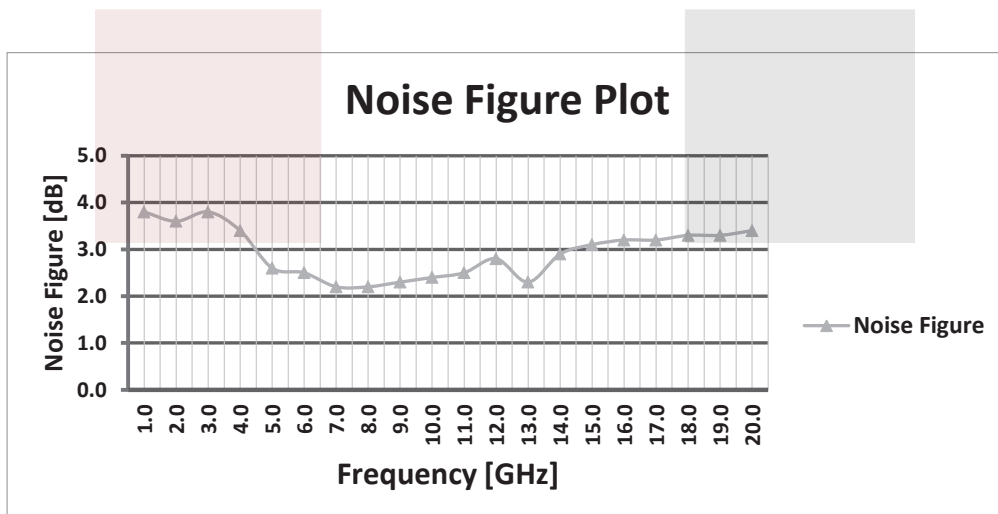
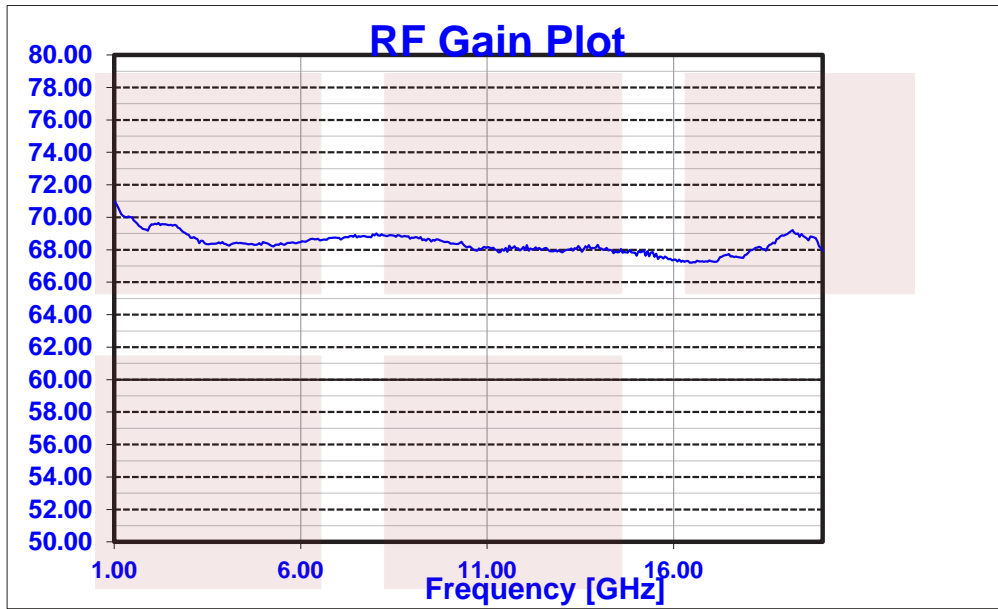
**Plotted and Other Data**

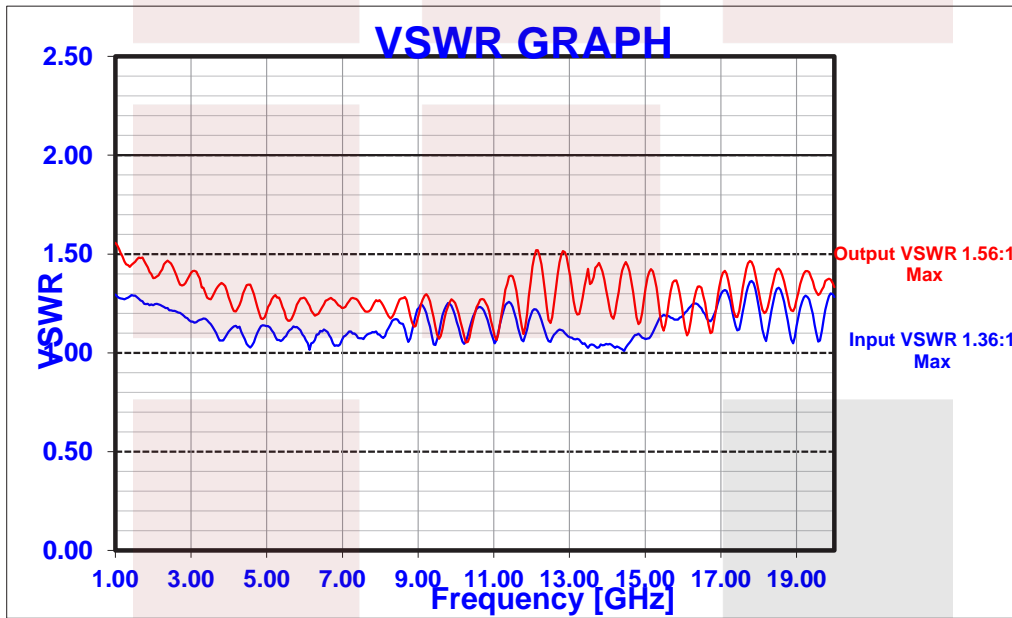
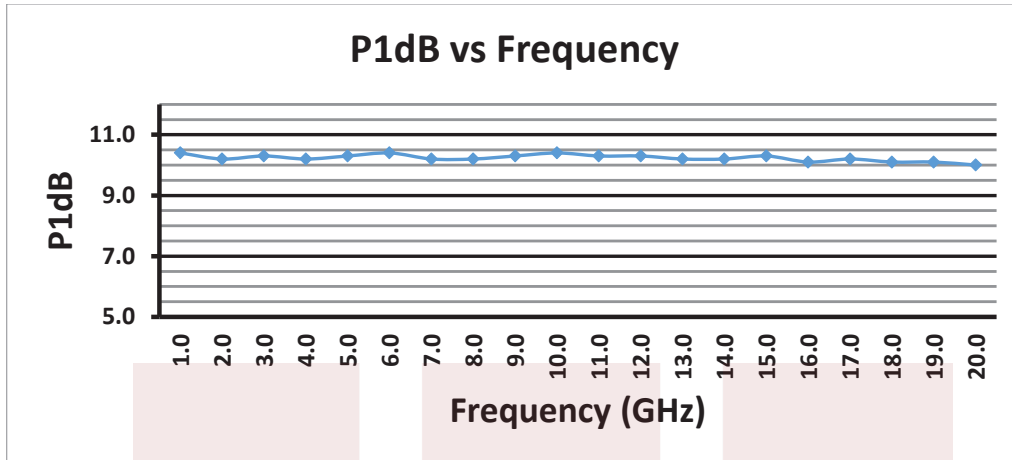
Notes:

- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



**Typical Performance Data**



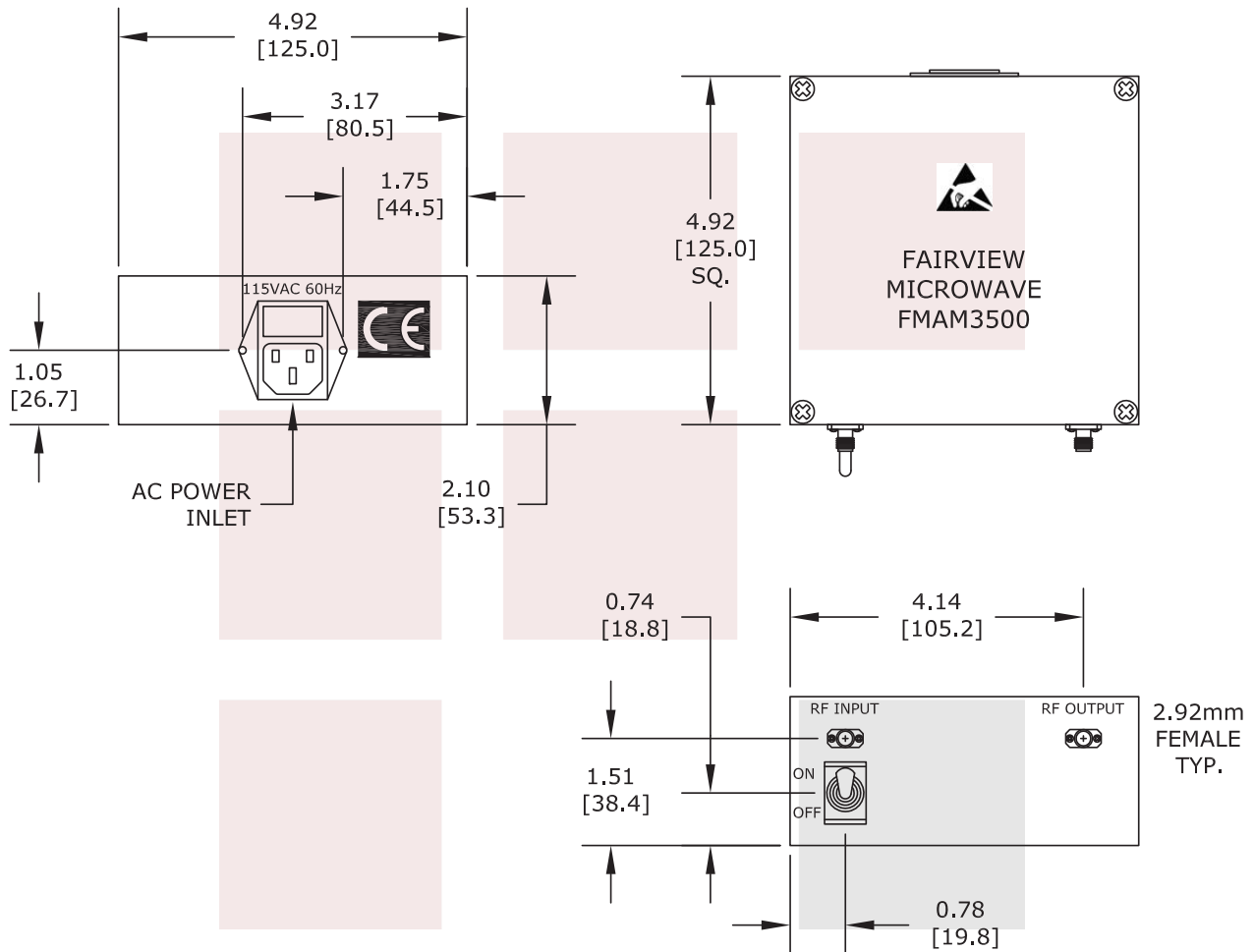


1 GHz to 20 GHz, 60 dB Gain Broadband High Gain Amplifier with 10 dBm and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [1 GHz to 20 GHz, 60 dB Gain Broadband High Gain Amplifier with 10 dBm and SMA FMAM3500](http://www.fairviewmicrowave.com/1-20-ghz-broadband-high-gain-amplifier-fmam3500-p.asp)

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TITLE 1 GHz to 20 GHz, 60 dB Gain Broadband High Gain Amplifier with 10 dBm and SMA		DWG NO FMAM3500		CAGE CODE 3FKR5	
CAD FILE	113015	SHEET	SCALE	N/A	SIZE
				A	2233