

## Low Noise Amplifier Operating From 1.2 GHz to 1.4 GHz with 35 dB Gain, 15 dBm P1dB and SMA

The FMAM1024 is an L-band high gain low noise coaxial amplifier operating in the 1.2 to 1.4 GHz frequency range. The low noise amplifier offers 15 dBm min of P1dB and 35 dB typical small signal gain with gain flatness of  $\pm 0.75$  dB typical. This excellent technical performance is achieved through the use of hybrid MIC design and advanced GaAs PHEMT devices. The low noise amplifier requires typically a +12V DC power supply. The connectorized SMA module is unconditionally stable and includes built-in voltage regulation. The amplifier operates over the temperature range of -40°C and +75°C.

**Electrical Specifications** (TA = +25°C , DC Voltage = 12Volts , DC Current = 180mA)

| Description                      | Min  | Typ        | Max     | Unit  |
|----------------------------------|------|------------|---------|-------|
| Frequency Range                  | 1.2  |            | 1.4     | GHz   |
| Small Signal Gain                | 35   |            |         | dB    |
| Gain Flatness                    |      | $\pm 0.75$ | $\pm 1$ | dB    |
| Output at 1 dB Compression Point | +15  |            |         | dBm   |
| Input VSWR                       |      |            | 2:1     |       |
| Output VSWR                      |      |            | 2:1     |       |
| Operating DC Voltage             | 10.8 | 12         | 13.2    | Volts |
| Operating DC Current             |      | 180        |         | mA    |
| Operating Temperature Range      | -40  |            | +75     | °C    |

### Mechanical Specifications

|                  |                    |
|------------------|--------------------|
| Size             |                    |
| Length           | 2.32 in [58.93 mm] |
| Width            | 2.32 in [58.93 mm] |
| Height           | 0.71 in [18.03 mm] |
| Input Connector  | SMA Female         |
| Output Connector | SMA Female         |

### Environmental Specifications

|                 |                  |
|-----------------|------------------|
| Temperature     |                  |
| Operating Range | -40 to +75 deg C |

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

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

### 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.



### Features:

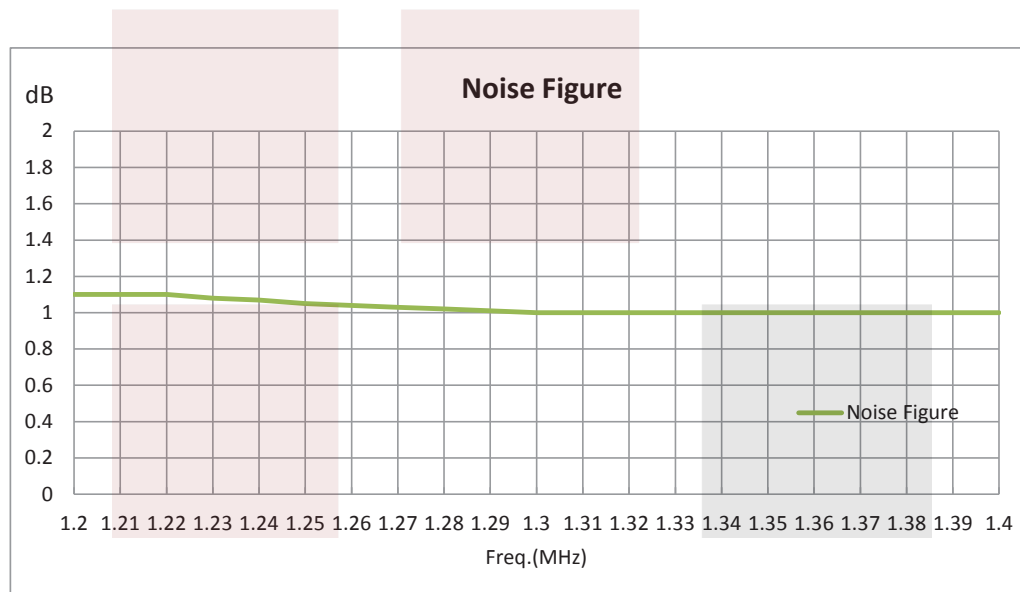
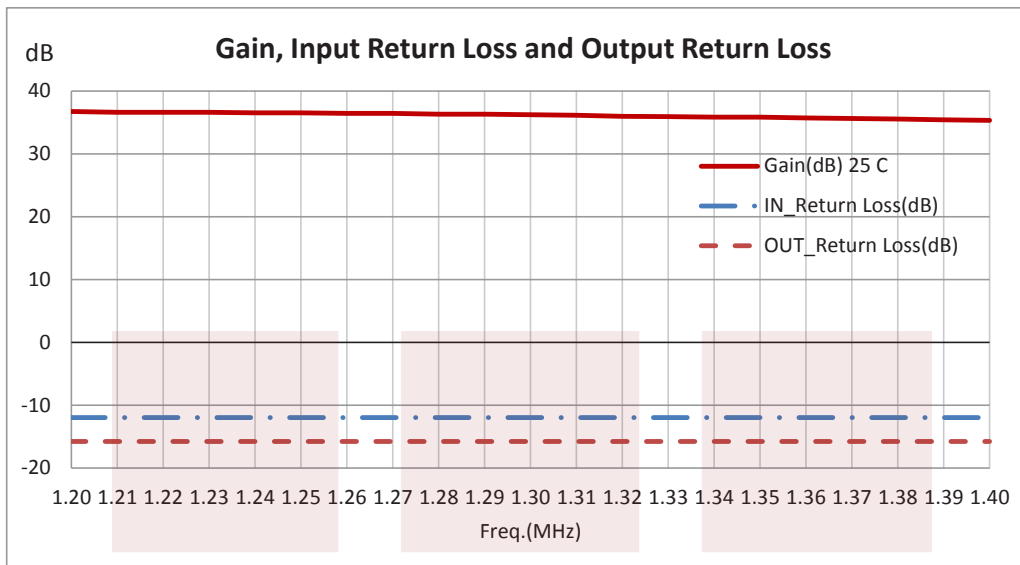
- 1.2 GHz to 1.4 GHz Frequency Range
- P1dB: 15 dBm min
- Small Signal Gain: 35 dB min
- Gain Flatness:  $\pm 0.75$  dB typical
- Noise Figure: 1.5 dB typ
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Regulated Supply & Bias Sequencing

### Applications:

- L-band Military Radar
- Commercial Air Traffic Control
- Weather & Earth Observation Satellites
- Radar & Communication Systems
- High Gain Low Noise Amplifier

Fairview Microwave  
1130 Junction Dr. #100  
Allen, TX 75013  
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**



Low Noise Amplifier Operating From 1.2 GHz to 1.4 GHz with 35 dB Gain, 15 dBm P1dB 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: [Low Noise Amplifier Operating From 1.2 GHz to 1.4 GHz with 35 dB Gain, 15 dBm P1dB and SMA FMAM1024](#)

URL: <http://www.fairviewmicrowave.com/low-noise-amplifier-35db-fmam1024-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.



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

***Click to view similar products for [RF Amplifier](#) category:***

***Click to view products by [Fairview Microwave](#) manufacturer:***

Other Similar products are found below :

[AL7](#) [SE2433T-R](#) [A66-3](#) [SMA411](#) [SST12LP19E-QX6E](#) [BGU6009/N2X](#) [BGS8H2X](#) [BGS8324Z](#) [MMG30301BT1](#) [MMA041PP5](#) [A57](#)  
[MMA044PP3](#) [BGA 5H1BN6 E6327](#) [BGA824N6E6329XTSA1](#) [A75](#) [BGA524N6E6329XTSA1](#) [CGY2144UH/C2](#) [MAAP-011378-DIE](#)  
[MAAL-009120-TR3000](#) [MAAP-010169-001SMB](#) [BGU8103X](#) [F0480NBGI8](#) [BGA420H6327XTSA1](#) [SKY65095-360LF](#) [MAX2644EXT+T](#)  
[MAX2611EUS+T](#) [BGA6130,118](#) [BGA616H6327XTSA1](#) [BGU7004,115](#) [MAAM02350-A2](#) [CMPA2560025F](#) [BGA8V1BN6E6327XTSA1](#)  
[BGC100GN6E6327XTSA1](#) [BGA8U1BN6E6327XTSA1](#) [MGA-655T6-BLKG](#) [LTC6430AIUF-20#PBF](#) [HMC717ALP3E](#) [MMZ27333BT1](#)  
[HMC8410LP2FETR](#) [BGA3131J](#) [MAAP-011232-TR0500](#) [GRF4142](#) [CMPA601C025F](#) [MAAM-011229-TR1000](#) [MAAM-011206-TR3000](#)  
[MAAM-009286-TR3000](#) [MAAL-011111-TR0500](#) [GRF2105](#) [SKY66294-11](#) [GRF2133](#)