

**2 dB NF Low Noise Amplifier Operating From  
500 MHz to 3 GHz with 14.5 dB Gain, 20 dBm P1dB  
and SMA**

SLNA-030-15-25-SMA is a low noise RF coaxial power amplifier operating in the 500 MHz to 3 GHz frequency range. The amplifier offers Noise Figure of 2.0 dB typ, 20 dBm min of P1dB and 14.5 dB typ of small signal gain. This exceptional technical performance is achieved through the use of hybrid MIC design and advanced GaAs E-pHEMT devices. The low noise amplifier requires an operating voltage between +5 VDC and +12VDC power supply. The connectorized SMA module is unconditionally stable and includes built-in voltage regulation, bias sequencing.

**Electrical Specifications** (TA = +25°C , DC Voltage = 12Volts , DC Current = 90mA)

Description	Min	Typ	Max	Unit
Frequency Range	0.5		3	GHz
Small Signal Gain		14.5		dB
Gain Flatness		±0.4		dB
Output at 1 dB Compression Point		+20		dBm
Output 3rd Intercept Point	+31	+35		dBm
Noise Figure		2	3	dB
Input VSWR	1.93:1			
Output VSWR	1.93:1			
Operating DC Voltage	5		12	Volts
Operating DC Current		90		mA

**Mechanical Specifications**

<b>Size</b>	
Length	1.38 in [35.05 mm]
Width	1.18 in [29.97 mm]
Height	0.5 in [12.7 mm]
Input Connector	SMA Female
Output Connector	SMA Female

**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:**

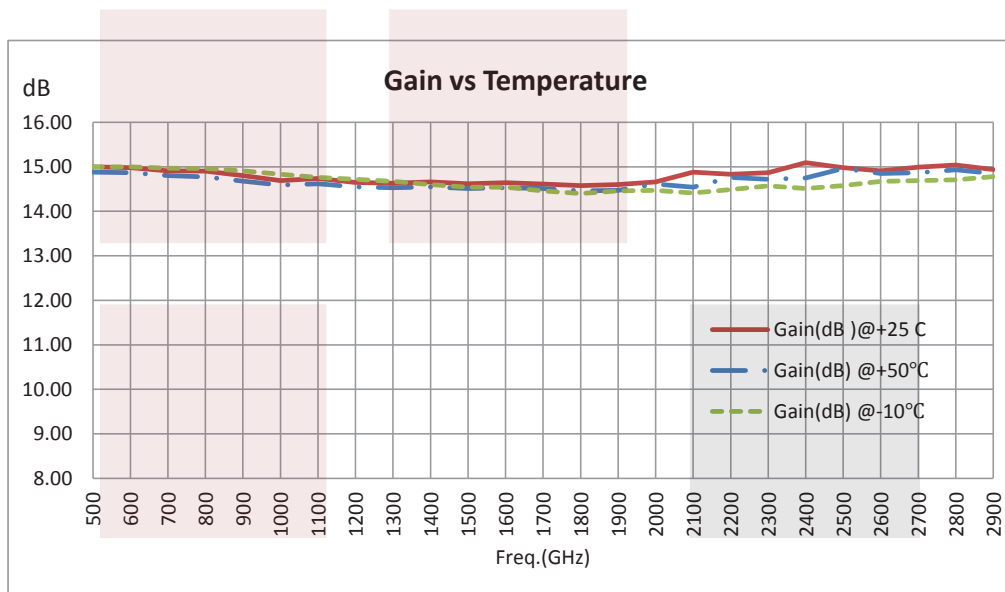
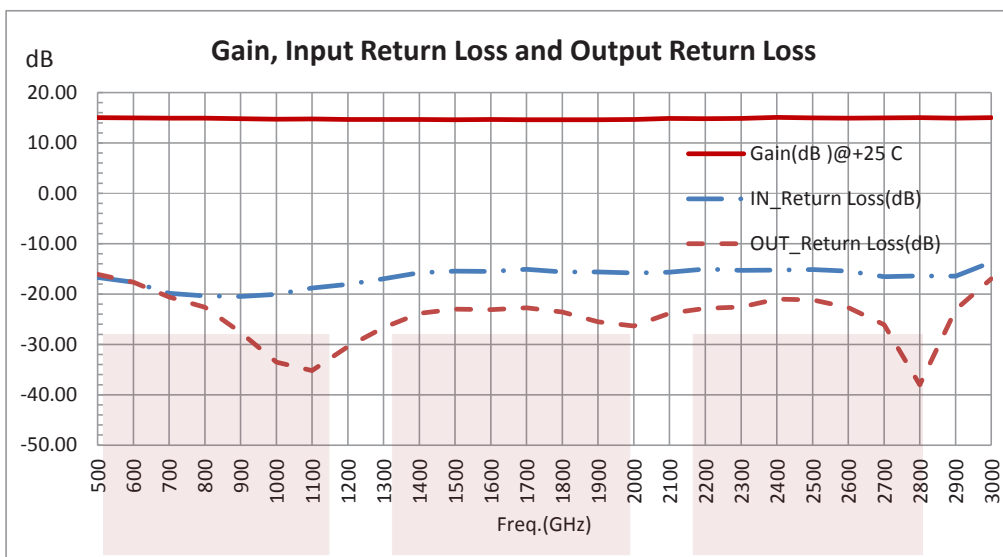
- 500 MHz to 3 GHz Frequency Range
- P1dB: 20 dBm typ
- Small Signal Gain: 14.5 dB typ
- Noise Figure: 2.0 dB typ
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Single DC Positive Supply
- Built-in Voltage Regulator

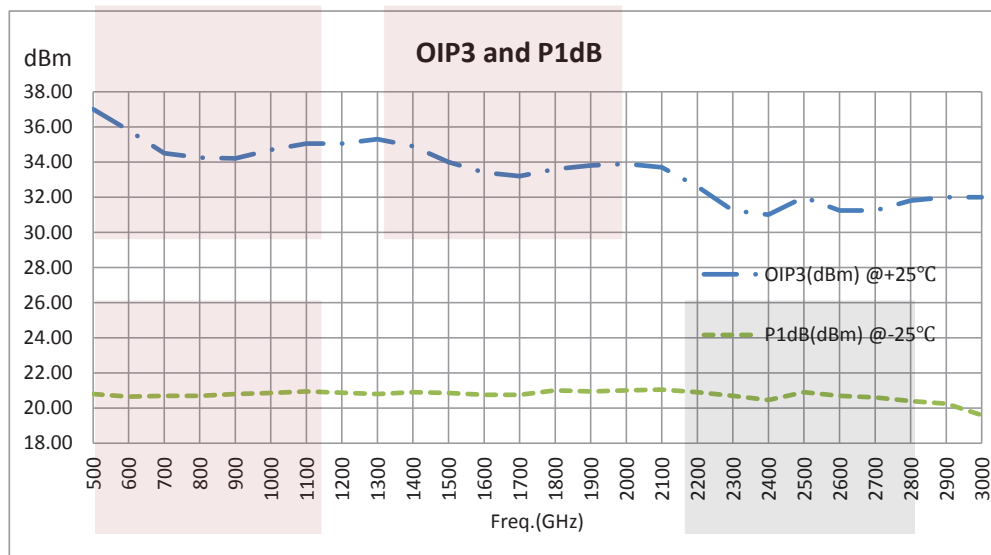
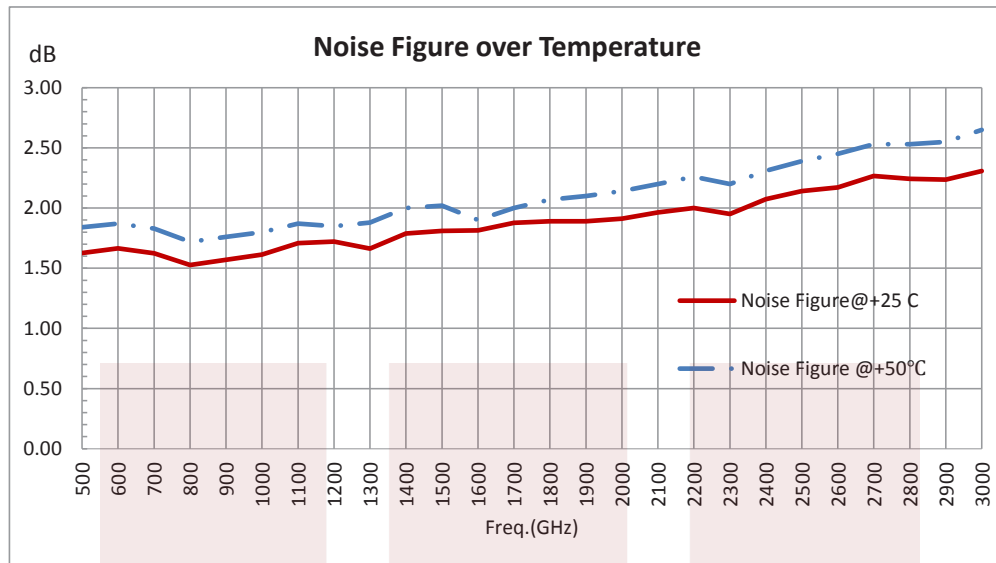
**Applications:**

- Laboratory Applications
- R&D Labs
- Radar Systems
- Telecom Infrastructure
- Test Instrumentation
- Communication Systems
- Wireless Communication
- Microwave Radio Systems
- Cellular Base Stations
- Low Noise Amplifier
- General Purpose Amplification
- General Purpose Wireless
- Wideband Gain Block
- IF Amplifier/RF Driver Amplifier
- RF Wideband Front Ends
- RF Pre-amplification

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**



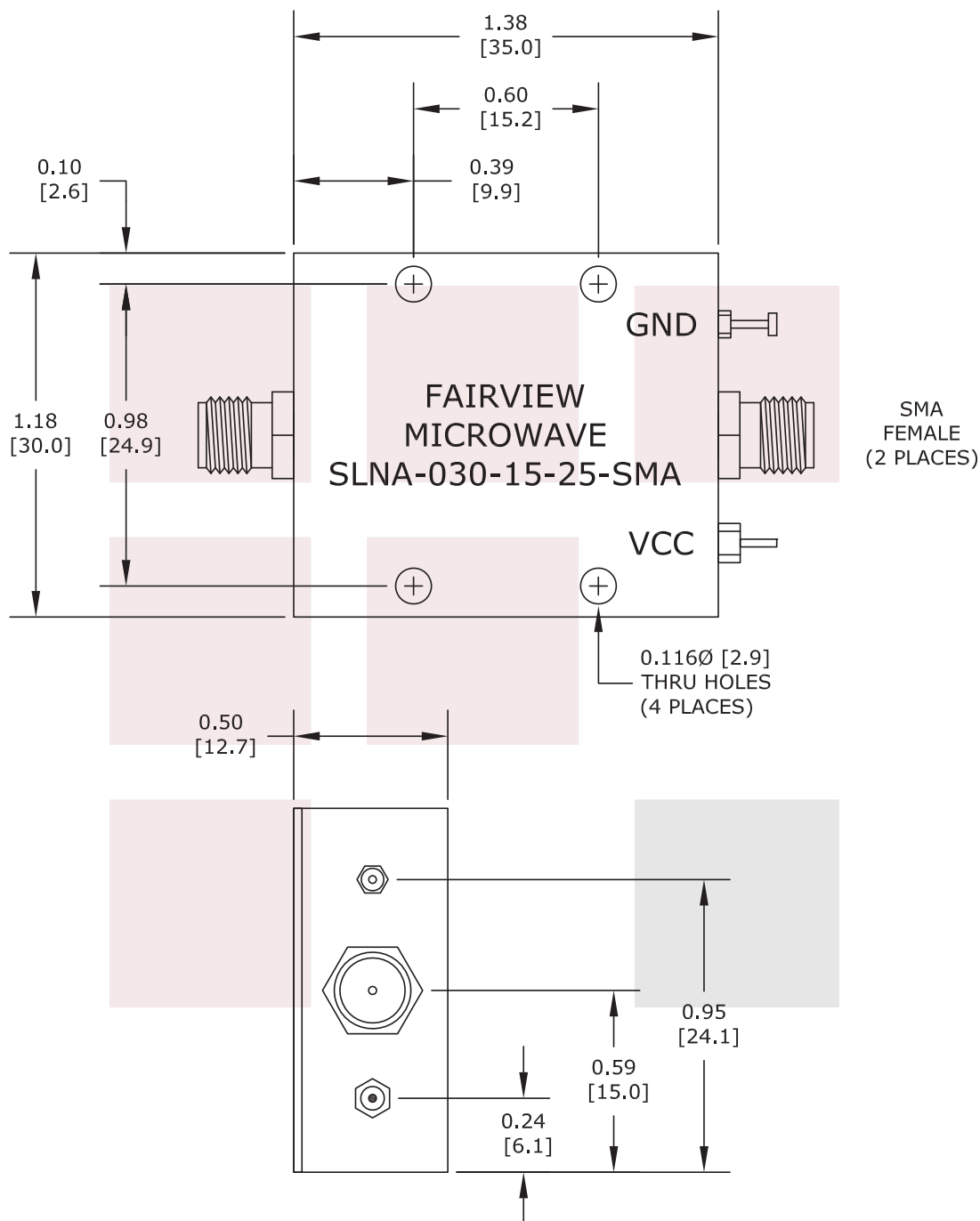


2 dB NF Low Noise Amplifier Operating From 500 MHz to 3 GHz with 14.5 dB Gain, 20 dBm P1dB and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 dB NF Low Noise Amplifier Operating From 500 MHz to 3 GHz with 14.5 dB Gain, 20 dBm P1dB and SMA SLNA-030-15-25-SMA](http://www.fairviewmicrowave.com/2db-nf-low-noise-amplifier-14.5db-slna-030-15-25-sma-p.aspx)

URL: <http://www.fairviewmicrowave.com/2db-nf-low-noise-amplifier-14.5db-slna-030-15-25-sma-p.aspx>

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## 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

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### DWG NO

SLNA-030-15-25-SMA

### CAGE CODE

3FKR5

### CAD FILE

051115

### SHEET

1

### SCALE

N/A

### SIZE

A

2233