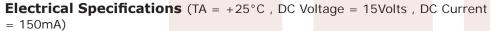


# SLNA-035-40-11-SMA DATA SHEET

# 40 dB Gain 1.1 dB NF Low Noise High Gain Amplifier Operating From 3.1 GHz to 3.5 GHz with 15 dBm and SMA

SLNA-035-40-11-SMA is a S-band high gain low noise coaxial amplifier operating in the 3.1 to 3.5 GHz frequency range. The amplifier offers 15 dBm of P1dB and high 40 dB typical small signal gain with the gain typical flatness of  $\pm 0.3$ dB. 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 +15V DC power supply. The connectorized SMA module is unconditionally stable and includes built-in voltage regulation, bias sequencing, and reverse bias protection for added reliability. The amplifier operates over the temperature range of -30°C and +60°C.



Description		Min	Тур	Max	Unit
Frequency Range		3.1		3.5	GHz
Small Signal Gain			40		dB
Gain Flatness			±0.3	±0.5	dB
Output at 1 dB Compress	sion Point	+15	+15		dBm
Noise Figure			1.1	1.2	dB
Input VSWR			1.5:1	1.7:1	
Output VSWR			1.5:1	1.7:1	
Operating DC Voltage		10	15	17	Volts
Operating DC Current			150	170	mA
Operating Temperature R	ange	-30		+60	°C

### **Absolute Maximum Rating**

Paramete	r I	Rating	Units	
Source Voltage		+15	Volts	
RF input Power		+17	dBm	
Operating Temperature	(base-plate) -3	0 to +60	°C	
Storage Temperature	-5	5 to +85	°C	



ESD Sensitive Material, Transport material in Approved
ESD bags. Handle only in approved
ESD Workstation.

## Configuration

Connector 1 SMA Female
Connector 2 SMA Female

**Compliance Certifications** (visit www.FairviewMicrowave.com for current document)

RoHS Compliant

Yes



## Features:

- 3.1 GHz to 3.5 GHz Frequency Range
- P1dB 15 dBm
- Small Signal Gain: 40 dB
- Gain Flatness: ± 0.3 dB
- Noise Figure: 1.1 dB
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Regulated Supply & Bias Sequencing
- · Hermetically Sealed Module
- Overvoltage External Protection for Easy Repair

## Applications:

- 3.1 GHz to 3.5 GHz Frequency Range
- P1dB 15 dBm
- Small Signal Gain: 40 dB
- Gain Flatness: ± 0.3 dB
- Noise Figure: 1.1 dB
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Regulated Supply & Bias Sequencing
- Hermetically Sealed Module
- Overvoltage External Protection for Easy Repair

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com

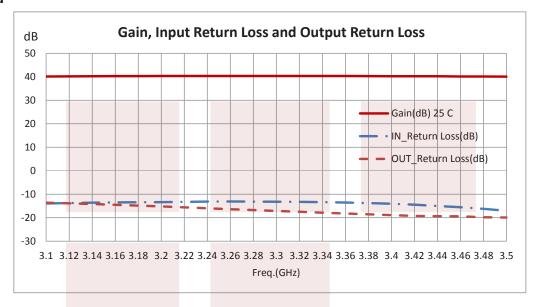


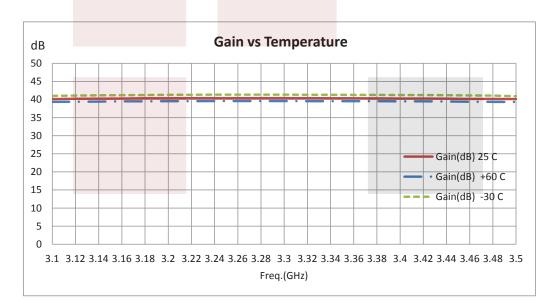
#### **Plotted and Other Data**

Notes:

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

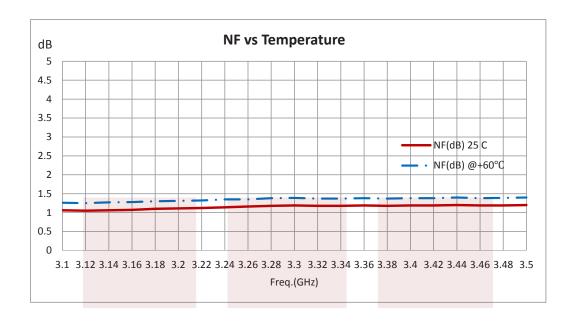
#### **Power Data**

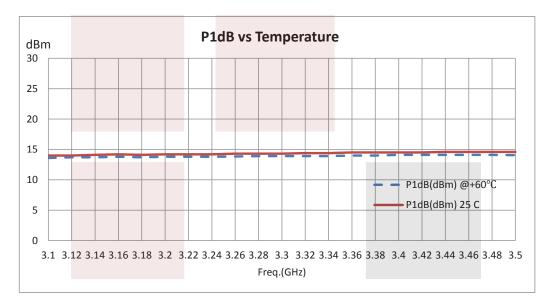






# SLNA-035-40-11-SMA DATA SHEET





40 dB Gain 1.1 dB NF Low Noise High Gain Amplifier Operating From 3.1 GHz to 3.5 GHz with 15 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.

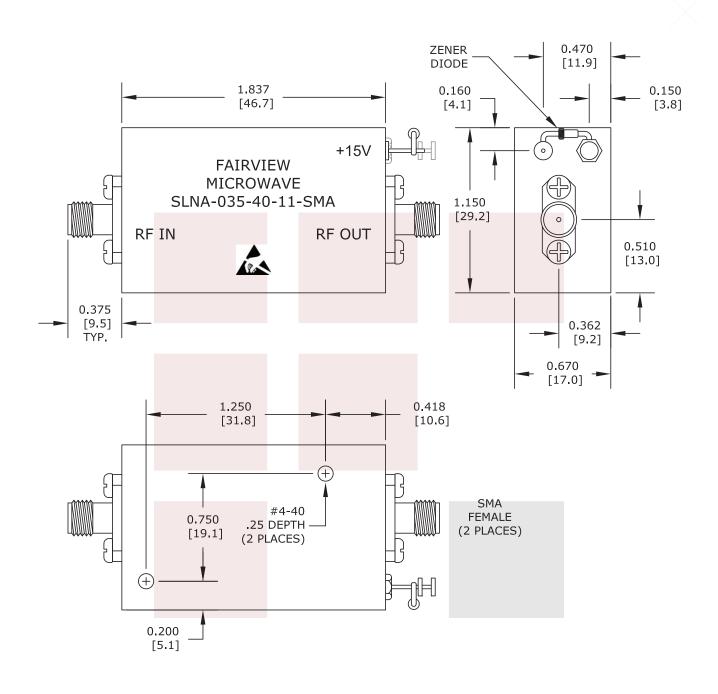
For additional information on this product, please click the following link: 40 dB Gain 1.1 dB NF Low Noise High Gain Amplifier Operating From 3.1 GHz to 3.5 GHz with 15 dBm and SMA SLNA-035-40-11-SMA

URL: http://www.fairviewmicrowave.com/40db-1.1db-nf-low-noise-high-gain-amplifier-slna-035-40-11-sma-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.



# SLNA-035-40-11-SMA DATA SHEET



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40 dB Gain 1.1 dB NF Low Noise High Gain Amplifier Operating From 3.1 GHz to 3.5 GHz with 15 dBm and SMA	SLNA-035-40-11-SMA			CAGE CODE 3FKR5		
	CAD FILE	050914	SHEET	SCAL	E N/A	SIZE A