

SLNA-014-40-35-SMA DATA SHEET

40 dB Gain 1.5 dB NF Low Noise High Gain Amplifier Operating From 1.2 GHz to 1.4 GHz with 15 dBm and SMA

SLNA-014-40-35-SMA 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 high 40 dB typical small signal gain with gain flatness of ± 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, bias sequencing, and reverse bias protection for added reliability. The amplifier operates over the temperature range of -40°C and +85°C.

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 200mA)

Description	Min		Тур	Max	Unit
Frequency Range	1.2			1.4	GHz
Small Signal Gain	40				dB
Gain Flatness			±0.75	±1	dB
Gain Variance at OTR*				±1.8	dB
Output at 1 dB Compressi	on Point +15				dBm
Noise Figure				1.5	dB
Input VSWR				2:1	
Output VSWR				2:1	
Operating DC Voltage	10.8	3	12	13.2	Volts
Operating DC Current			200	250	mA
Operating Temperature Ra	nge -40			+85	°C

^{*}OTR= Base Plate Operating Temperature Range

Absolute Maximum Rating

Parameter	Rating	Units	
Source Voltage	+15	Volts	
RF input Power	+17	dBm	
Operating Temperature (base-plate)	-40 to +85	°C	
Storage Temperature	-55 to +85	°C	



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

Configuration

Connector 1 Connector 2 SMA Female SMA Female

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

RoHS Compliant

Yes



Features:

- 1.2 GHz to 1.4 GHz
 Frequency Range
- P1dB: 15 dBm min
- Small Signal Gain: 40 dB min
- Gain Flatness: ±0.75 dB typical
- Noise Figure: 1.5 dB max
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Regulated Supply & Bias Sequencing
- · Hermetically Sealed Module
- Overvoltage External Protection for Easy Repair

Applications:

- 1.2 GHz to 1.4 GHz Frequency Range
- P1dB: 15 dBm min
- Small Signal Gain: 40 dB min
- Gain Flatness: ±0.75 dB typical
- Noise Figure: 1.5 dB max
- 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

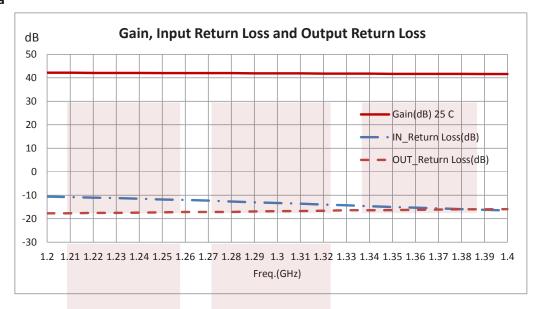


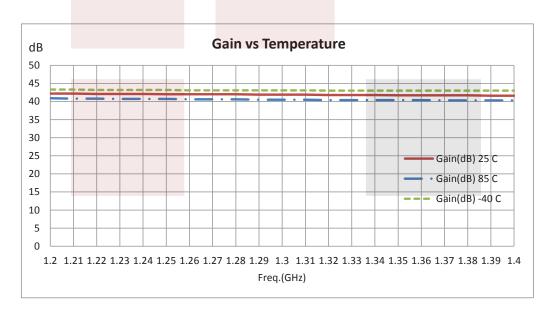
Plotted and Other Data

Notes:

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

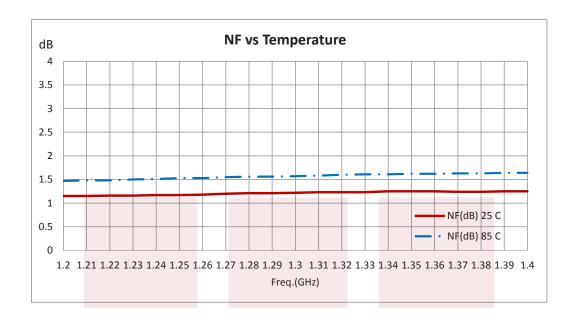
Power Data

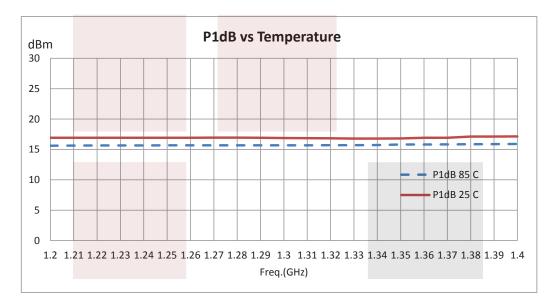






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40 dB Gain 1.5 dB NF Low Noise High Gain Amplifier Operating From 1.2 GHz to 1.4 GHz with 15 dBm and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

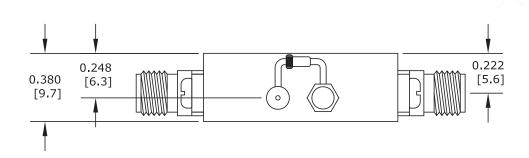
For additional information on this product, please click the following link: 40 dB Gain 1.5 dB NF Low Noise High Gain Amplifier Operating From 1.2 GHz to 1.4 GHz with 15 dBm and SMA SLNA-014-40-35-SMA

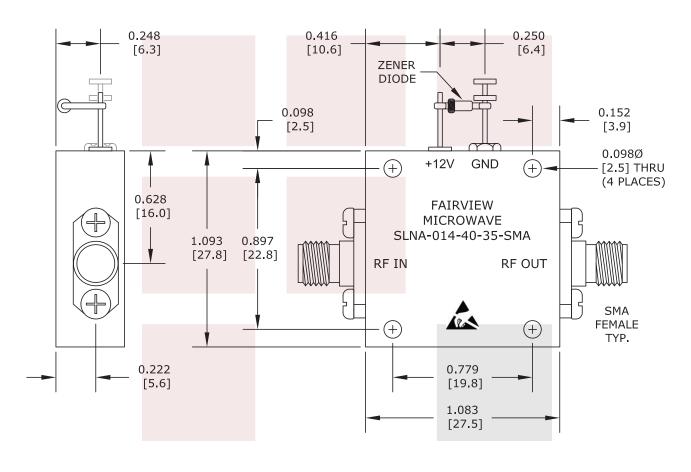
URL: http://www.fairviewmicrowave.com/40db-1.5db-nf-low-noise-high-gain-amplifier-slna-014-40-35-sma-p.aspx

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40 dB Gain 1.5 dB NF Low Noise High Gain Amplifier Operating From 1.2 GHz to 1.4 GHz with 15 dBm and SMA	DWG NO SLNA-014-40-35-SMA			CAGE CODE 3FKR5			
	CAD FILE 050914	SHEET	SCALE N/	A SIZE A	2233		