Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

SLNA-010-30-12-SMA DATA SHEET

1 dB NF Low Noise Amplifier Operating From 10 MHz to 1,000 MHz with 30 dB Gain, 17 dBm P1dB and SMA

SLNA-010-30-12-SMA is a wideband low noise RF coaxial power amplifier operating in the 10 MHz to 1 GHz frequency range. The amplifier offers 1 dB noise figure, 17 dBm of P1dB and 30 dB small signal gain with the excellent gain flatness of ±0.7dB. This exceptional 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, is unconditionally stable and operates over the temperature range of -40°C and +75°C.

Electrical Specifications (TA = +25°C , DC Voltage = 12Volts , DC Current = 110mA)

Description	Min	Typ	Max	Unit
Frequency Range	10		1,000	MHz
Small Signal Gain	28	30		dB
Gain Flatness		±0.7	±1	dB
Gain Variance at OTR*		1		dB
Output at 1 dB Compression Point	+16	+17		dBm
Noise Figure		1	1.2	dB
Input VSWR		1.3:1	1.5:1	
Output VSWR		1.2:1	1.5:1	
Reverse Isolation	45	49		dB
Spurious			-60	dBc
Operating DC Voltage	9	12	15	Volts
Operating DC Current	90	110	130	mA
Operating Temperature Range	-40		+75	°C

*OTR= Base Plate Operating Temperature Range

Absolute Maximum Rating

Parameter	Rating	Units
Source Voltage	+15	Volts
RF input Power	+15	dBm
Operating Temperature (base-plate)	-40 to +75	°C
Storage Temperature	-55 to +125	°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

Features:

- 10 MHz to 1 GHz Frequency Range
- P1dB: 17 dBm
- Flat Small Signal Gain: 30 dB
- Gain Flatness: ±0.7 dB
- Gain Variance: ±1 dB
- Noise Figure: 1 dB
- Reverse Isolation: 49 dB
- 50 Ohm Input and Output Matched
- -40 to 75°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in Voltage Regulator

Applications:

- 10 MHz to 1 GHz Frequency Range
- P1dB: 17 dBm
- Flat Small Signal Gain: 30 dB
- Gain Flatness: ±0.7 dB
- Gain Variance: ±1 dB
- Noise Figure: 1 dB
- Reverse Isolation: 49 dB
- 50 Ohm Input and Output Matched
- -40 to 75°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in Voltage Regulator

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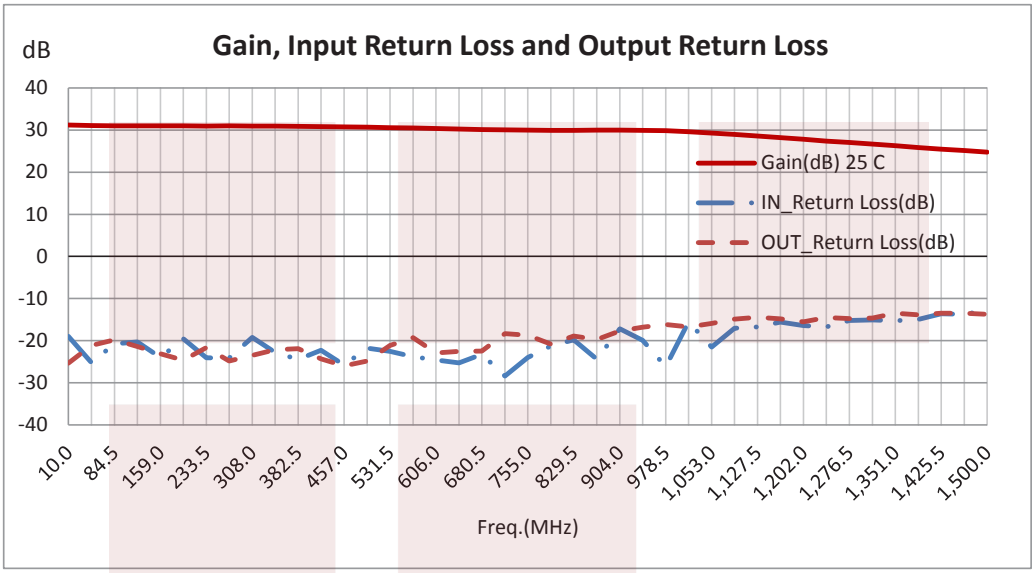
document)

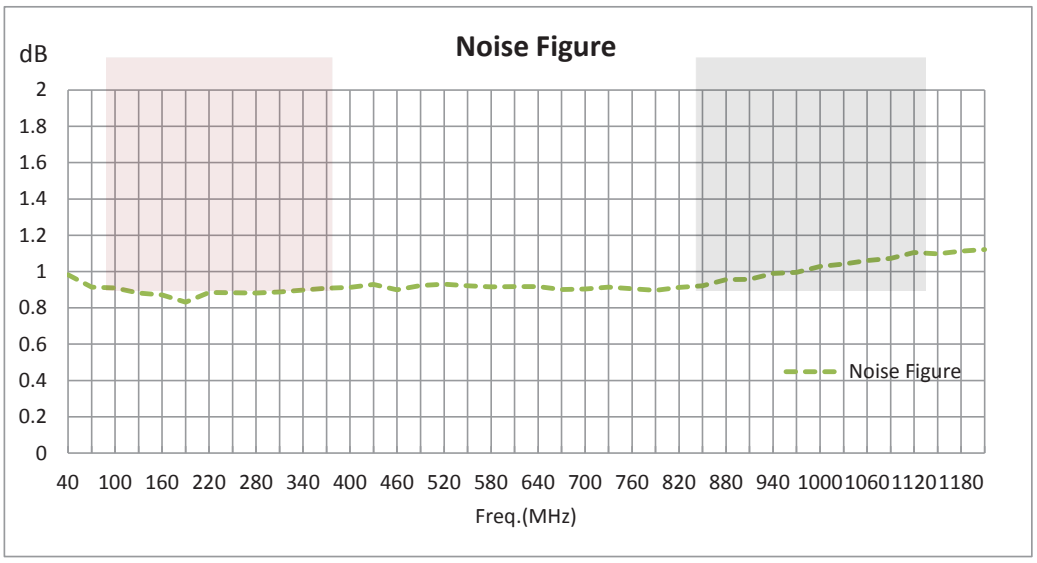
Plotted and Other Data

Notes:

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

Power Data

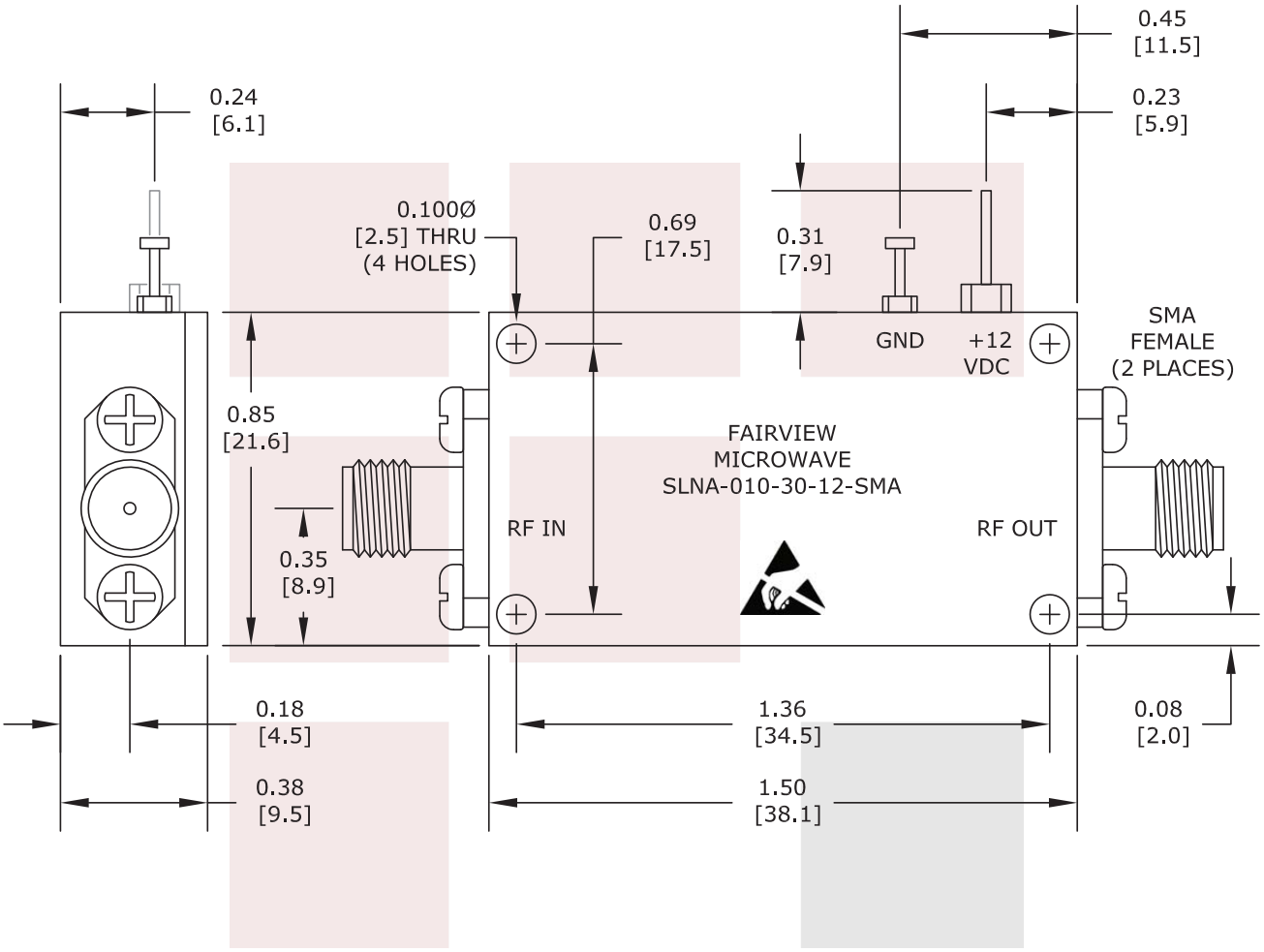




1 dB NF Low Noise Amplifier Operating From 10 MHz to 1,000 MHz with 30 dB Gain, 17 dBm P1dB and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 1 dB NF Low Noise Amplifier Operating From 10 MHz to 1,000 MHz with 30 dB Gain, 17 dBm P1dB and SMA SLNA-010-30-12-SMA

URL: http://www.fairviewmicrowave.com/1db-nf-low-noise-amplifier-30db-slna-010-30-12-sma-p.aspx



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 1 dB NF Low Noise Amplifier Operating From 10 MHz to 1,000 MHz with 30 dB Gain, 17 dBm P1dB and SMA	DWG NO SLNA-010-30-12-SMA		CAGE CODE 3FKR5		
	CAD FILE 050914	SHEET	SCALE N/A	SIZE A	2233