

2 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier with 11 dBm, 30 dB Gain and 2.92mm

SLNA-400-30-001-K is a broadband coaxial low noise amplifier, operating in the 26.5 to 40 GHz frequency range. The amplifier offers 11 dBm of P1dB min and 30 dB small signal gain typ, with the gain flatness of ± 2.0 dB typ performance. This low noise amplifier requires only a single positive DC supply, in unconditionally stable, operates over the temperature range of -40°C to 50°C , and is Hermetically sealed.

Electrical Specifications (TA= 25°C)

Description	Min	Typ	Max	Unit
Frequency Range	26.5		40	GHz
Gain		30		dB
Gain Flatness		± 2		dB
P1dB	+11			dBm
Noise Figure		2	4	dB
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage 1	8		12	Volts
Operating DC Current		150		mA
Operating Temperature Range (OTR)	-40		+50	$^{\circ}\text{C}$

Absolute Maximum Rating

Parameter	Rating
Max RF Input Power	+5 dBm



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

Mechanical Specifications

Size

Length	1.2 in [30.48 mm]
Width	1.2 in [30.48 mm]
Height	0.6 in [15.24 mm]
Weight	0.11 lbs [49.9 g]
Input Connector	2.92mm Female
Output Connector	2.92mm Female

Environmental Specifications

Temperature

Operating Range	-40 to $+50$ deg C
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Features:

- 26.5 to 40 GHz Frequency Range
- P1dB: 11 dBm min
- Small Signal Gain: 30 dB typ
- Gain Flatness: ± 2.0 dB
- Noise Figure: 2 dB typ
- 50 Ohm Input and Output Matched
- -40 to $+50^{\circ}\text{C}$ Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

Applications:

- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Military & Space
- Communication Systems
- Satellite Communications
- Wireless Communications
- Unmanned Systems
- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification
- RF Front Ends

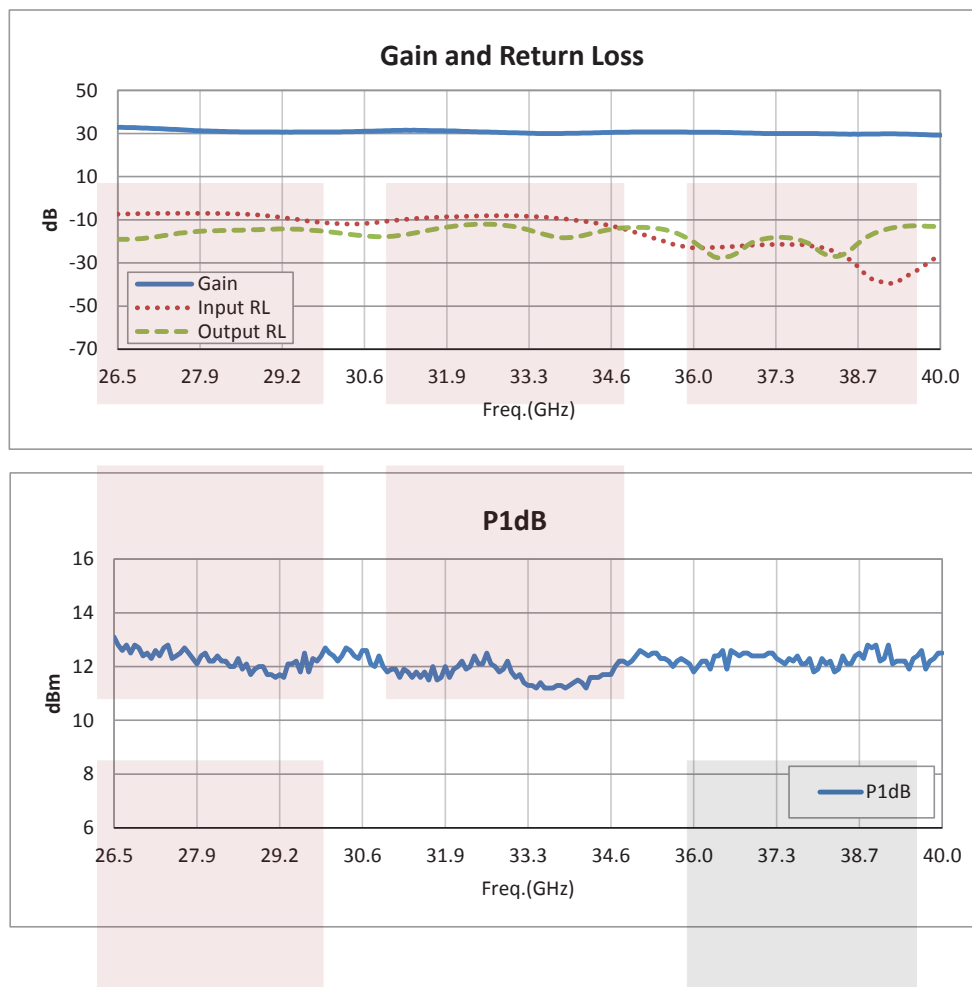
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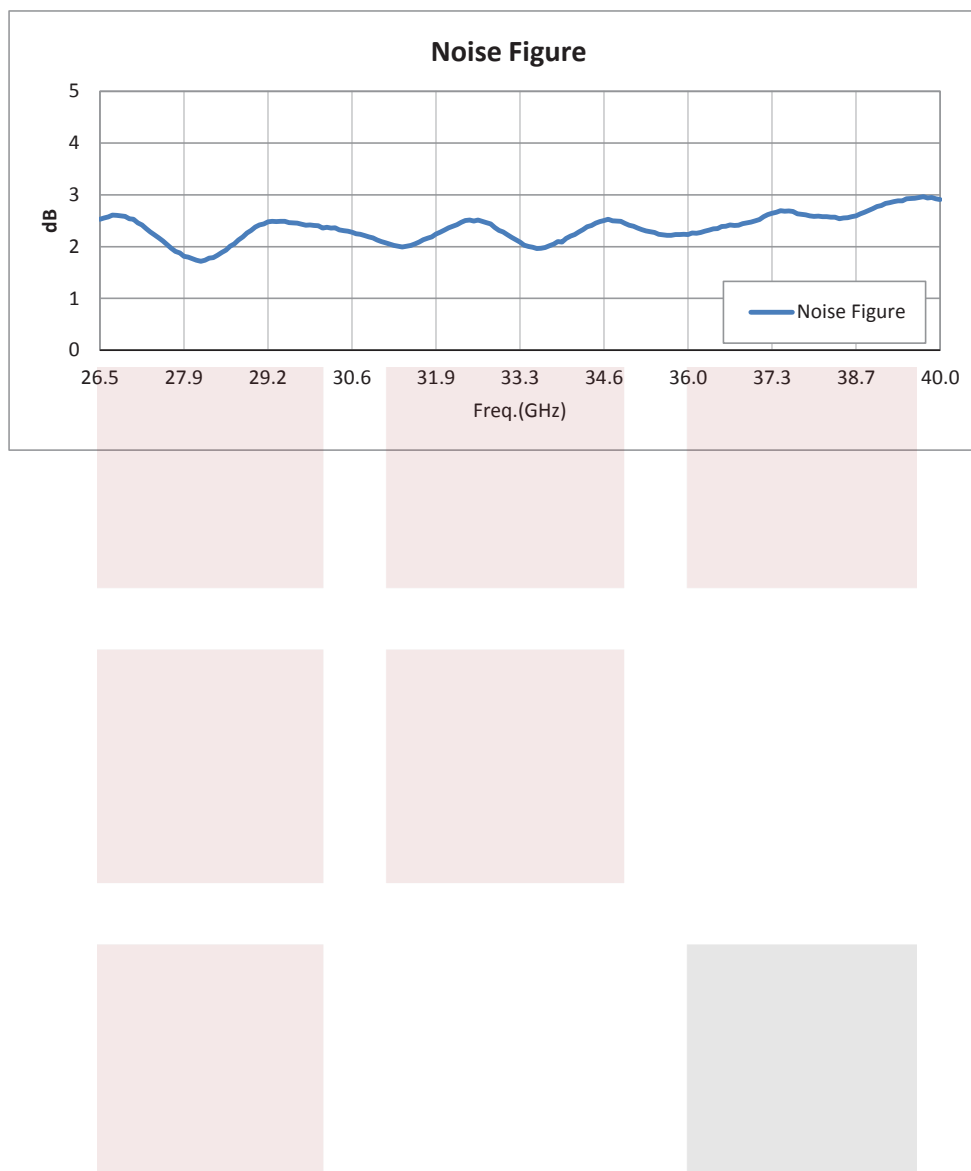
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



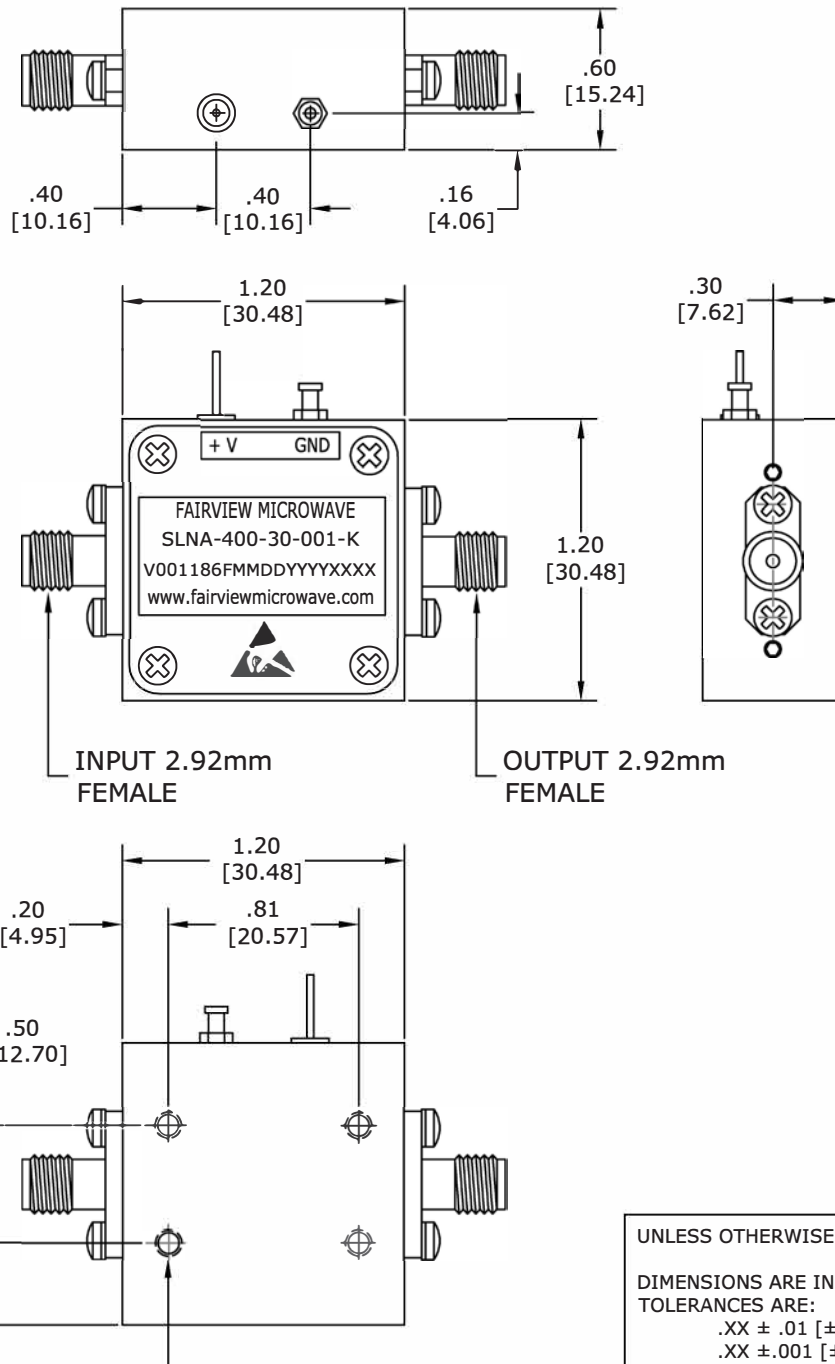


2 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier with 11 dBm, 30 dB Gain and 2.92mm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier with 11 dBm, 30 dB Gain and 2.92mm SLNA-400-30-001-K](https://www.fairviewmicrowave.com/26.5-40-ghz-low-noise-broadband-amplifier-slna-400-30-001-k-p.aspx)

URL: <https://www.fairviewmicrowave.com/26.5-40-ghz-low-noise-broadband-amplifier-slna-400-30-001-k-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.



INPUT 2.92mm
FEMALE

OUTPUT 2.92mm
FEMALE

4-40 X .20 [5.08] DP
4 PLS

NOTE:
HEAT SINK REQUIRED FOR PROPER OPERATION,
UNIT IS COOLED BY CONDUCTING TO HEAT SINK.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN: inches
TOLERANCES ARE: [mm]

.XX ± .01 [±.25]
.XX ± .001 [±.025]

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

FAIRVIEW MICROWAVE INC.

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TITLE

2 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband
Amplifier with 11 dBm, 30 dB Gain and 2.92mm

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].

DWG NO

SLNA-400-30-001-K

CAGE CODE

3FKR5

CAD FILE

081815

SHEET

SCALE N/A

SIZE A

2233