

5 dB NF, 100 MHz to 26.5 GHz, Low Noise Broadband Amplifier with 15 dBm, 15 dB Gain, 23 dBm IP3 and SMA

SLNA-180-35-35-SMA is a broadband coaxial low noise amplifier, operating in the 0.1 to 26.5 GHz frequency range. The amplifier offers 15 dBm typical P1dB, and 15 dB typical small signal gain, ± 2.0 dB maximum gain flatness, along with +23 dBm typical IP3 performance. This low noise amplifier requires a single positive DC voltage supply, is unconditionally stable, operates over the temperature range of -40°C to +85°C, and is hermetically sealed. The Input/Output connectors are SMA Female.

Electrical Specifications (TA = +25°C, DC Voltage = 15Volts, DC Current = 200mA)

Description	Min	Typ	Max	Unit
Frequency Range	0.1		26.5	GHz
Gain	13	15		dB
Gain Flatness			± 2	dB
P1dB	+15			dBm
Input Power			+13	dBm
IP3		+23		dBm
Noise Figure (> 500 MHz)		5	5.5	dB
Input VSWR		2.2:1		
Output VSWR		2.2:1		
Operating DC Voltage	12		15	Volts
Operating DC Current		200		mA
Operating Temperature Range (OTR)	-40		+85	°C

Mechanical Specifications

Size

Length	0.9 in [22.86 mm]
Width	1.05 in [26.67 mm]
Height	0.38 in [9.65 mm]

Input Connector	SMA
Output Connector	SMA

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-54 to +85 deg C



Features:

- 0.1 to 26.5 GHz Frequency Range
- P1dB: 15 dBm
- Small Signal Gain: 15 dB typ
- Gain Flatness: ± 2.0 dB max
- IP3: +23 dBm typ
- Noise Figure: 5 dB typ
- 50 Ohm Input and Output Matched
- -40 to +85°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Voltage Supply
- Built-in DC Voltage Regulator
- Input/Output SMA Female Connectors

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

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

Compliance Certifications (visit www.FairviewMicrowave.com for current 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.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

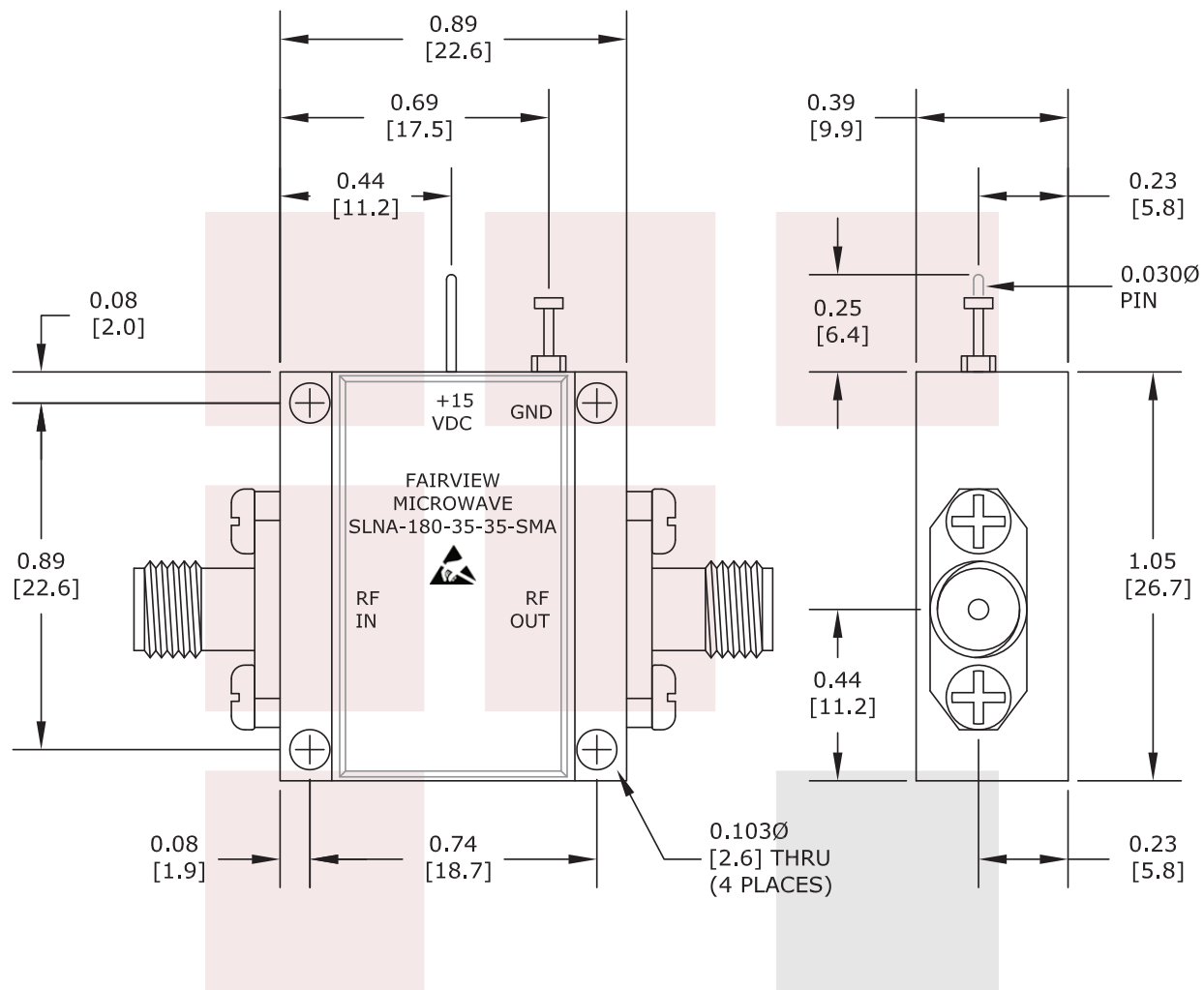


5 dB NF, 100 MHz to 26.5 GHz, Low Noise Broadband Amplifier with 15 dBm, 15 dB Gain, 23 dBm IP3 and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [5 dB NF, 100 MHz to 26.5 GHz, Low Noise Broadband Amplifier with 15 dBm, 15 dB Gain, 23 dBm IP3 and SMA SLNA-180-35-35-SMA](http://www.fairviewmicrowave.com/100-mhz-26.5-ghz-low-noise-broadband-amplifier-slna-180-35-35-sma)

URL: <http://www.fairviewmicrowave.com/100-mhz-26.5-ghz-low-noise-broadband-amplifier-slna-180-35-35-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.



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

<h1>FAIRVIEW MICROWAVE INC.</h1> <p>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM</p>		<p>NOTES:</p> <ol style="list-style-type: none"> 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]. 			
<p>TITLE</p> <p>5 dB NF, 100 MHz to 26.5 GHz, Low Noise Broadband Amplifier with 15 dBm, 15 dB Gain, 23 dBm IP3 and SMA</p>		<p>DWG NO</p> <p>SLNA-180-35-35-SMA</p>		<p>CAGE CODE</p> <p>3FKR5</p>	
		<p>CAD FILE</p> <p>112614</p>	<p>SHEET</p>	<p>SCALE</p> <p>N/A</p>	<p>SIZE</p> <p>A</p>
					<p>2233</p>