

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-260-13-55-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
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.

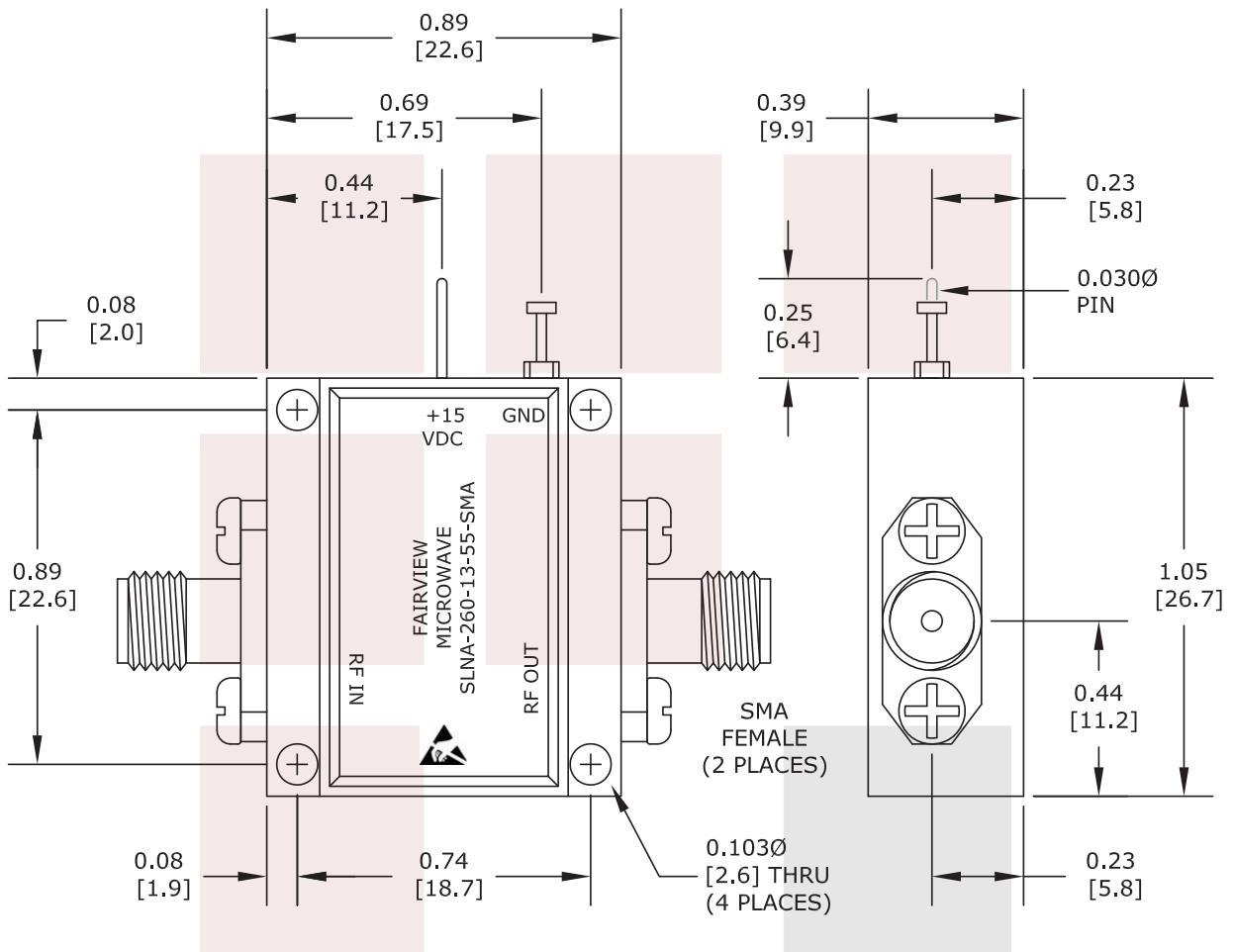


5 dB NF, 100 MHz to 26.5 GHz, Low Noise Broadband Amplifier with 15 dBm, 15 dB Gain, 23 dBm IP3 and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview 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-260-13-55-SMA](#)

URL: <http://www.fairviewmicrowave.com/100-mhz-26.5-ghz-low-noise-broadband-amplifier-sl-na-260-13-55-sma-p.aspx>

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

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 5 dB NF, 100 MHz to 26.5 GHz, Low Noise Broadband Amplifier with 15 dBm, 15 dB Gain, 23 dBm IP3 and SMA		DWG NO SLNA-260-13-55-SMA		CAGE CODE 3FKR5	
CAD FILE	022315	SHEET	SCALE	N/A	SIZE A 2233