

1 GHz to 18 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and SMA

SLNA-180-30-32-SMA is a 20 dBm power amplifier designed for operation in the 1 GHz to 18 GHz frequency range. The amplifier utilizes high power devices that provide excellent linearity and high gain. High efficiency operation is achieved by using hybrid MIC designs and advanced GaAs PHEMT devices. The amplifier requires only +12 VDC power supply.

Electrical Specifications (TA= 25°C, VDC1 = 12 Vdc)

Description	Min	Typ	Max	Unit
Frequency Range	1		18	GHz
Gain	30			dB
Gain Flatness		±1.5		dB
Gain Variance at OTR*		±1.5		dB
P1dB		+19		dBm
Saturation Output Power	+20			dBm
Noise Figure at 1 to 2 GHz		3.7		dB
Noise Figure at 2 to 18 GHz		3.2		dB
Input VSWR		2:1	2.5:1	
Output VSWR		2:1	2.5:1	
Operating DC Voltage 1	11	12	13	Volts
Operating DC Current		240	270	mA
Operating Temperature Range (OTR)	-54		+71	°C

*OTR= Base Plate Operating Temperature Range

Mechanical Specifications

Size	
Length	1.093 in [27.76 mm]
Width	1.33 in [33.78 mm]
Height	0.382 in [9.7 mm]
Weight	0.08 lbs [36.29 g]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-54 to +71 deg C
Shock	RTCS, DO-160C
Vibration	RTCS, DO-160C
Temperature Cycling	MIL-STD-883, METHOD 1010

Compliance Certifications (see [product page](#) 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.



Features:

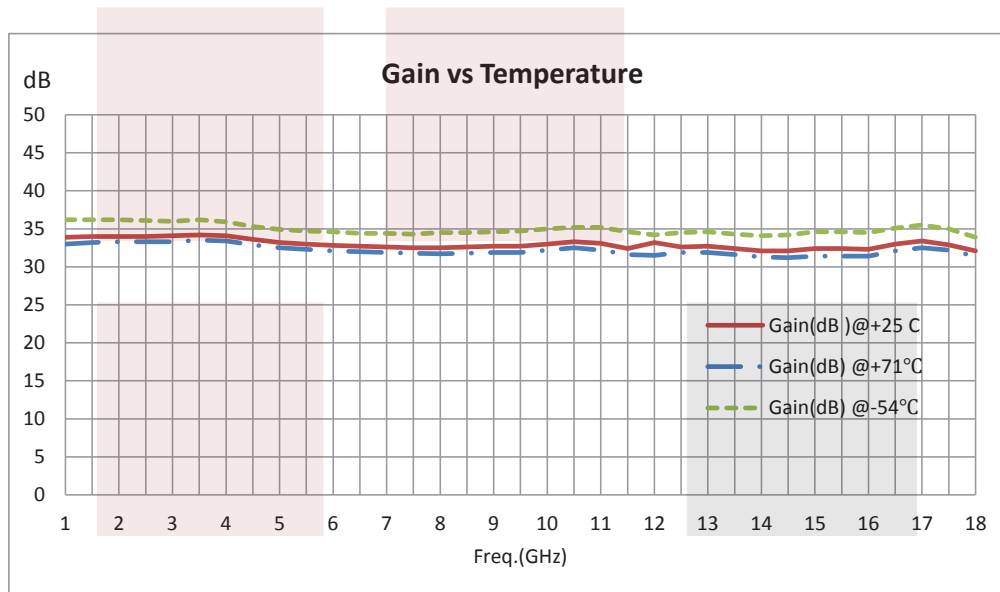
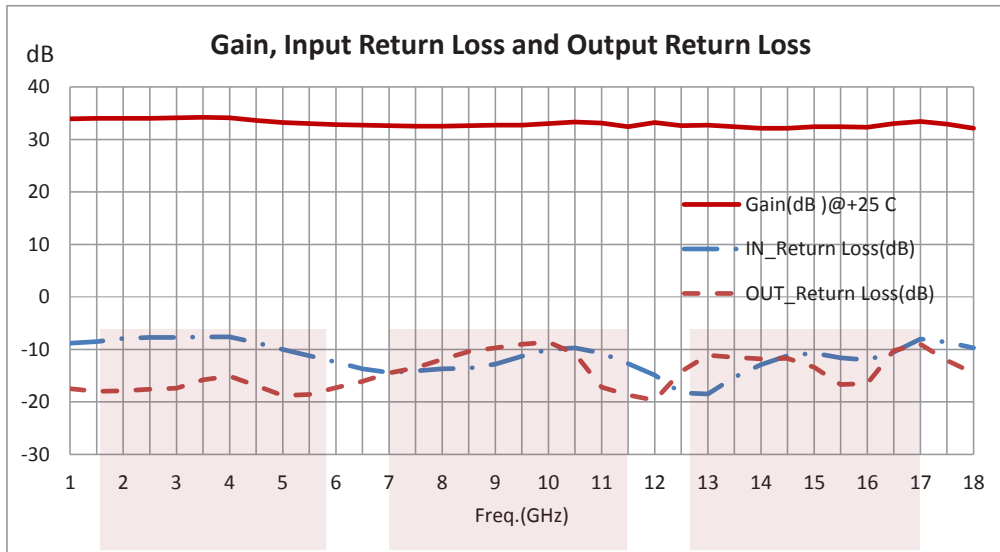
- 1 GHz to 18 GHz Frequency Range
- P1dB +19 dBm typ.
- Psat 20 dBm min
- Gain 30 dB min.
- Gain Flatness +/-1.5 dB typ

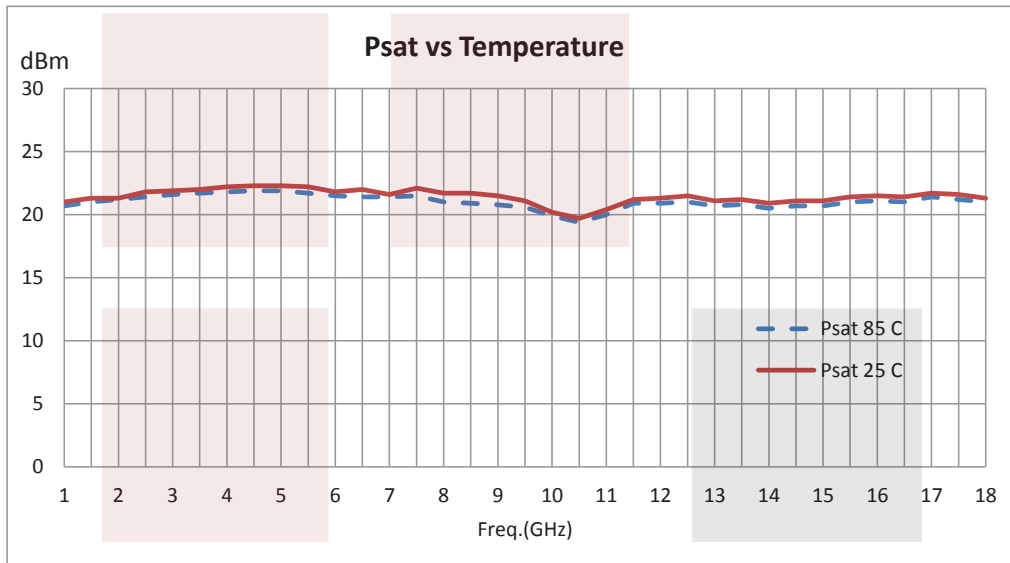
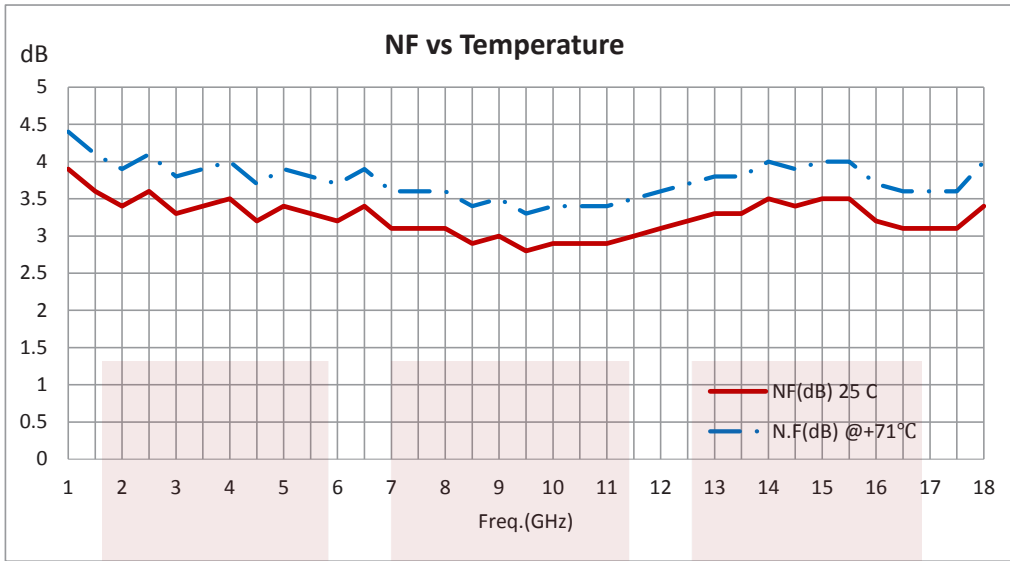
Applications:

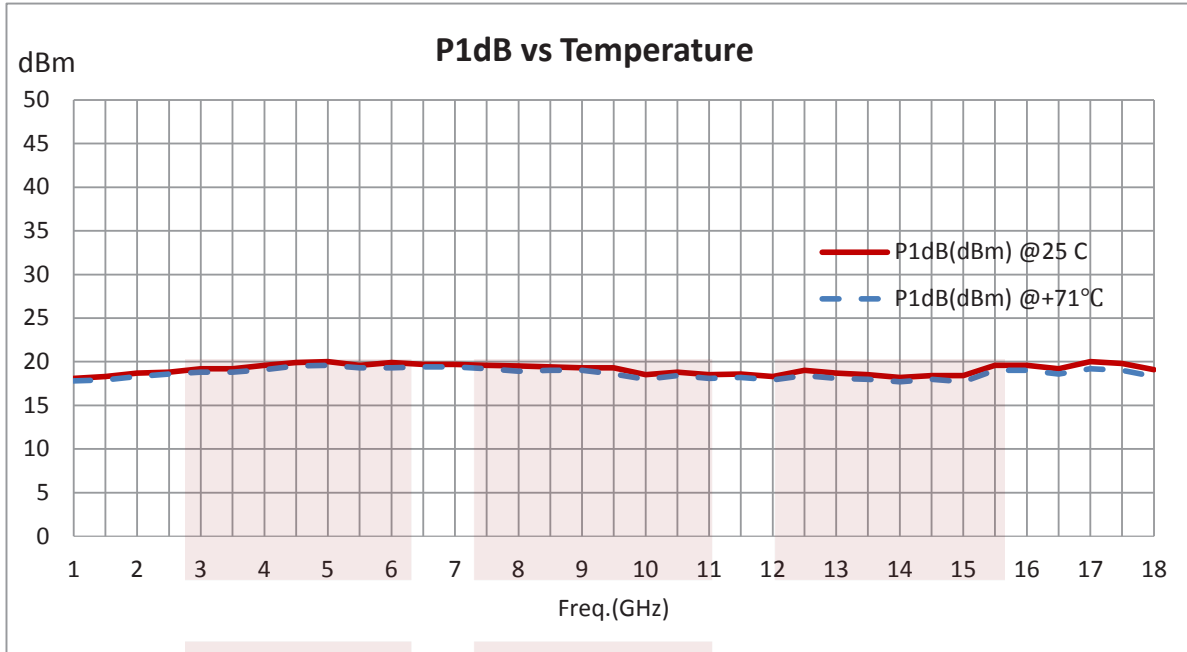
- Medium Power Amplifier
- Driver Amp
- Military Communications
- Broadband Communication
- Test & Measurement

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

Typical Performance Data





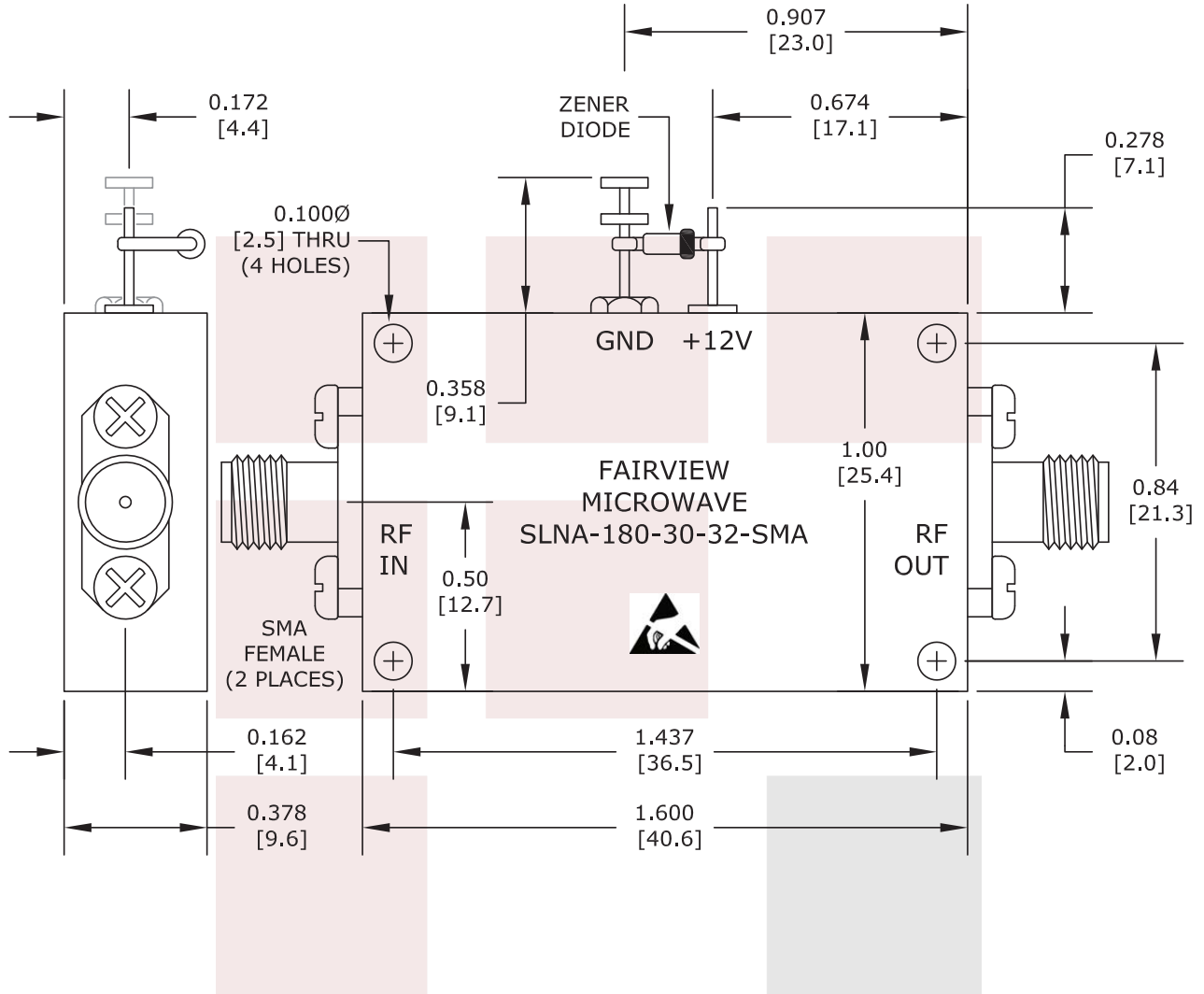


1 GHz to 18 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [1 GHz to 18 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and SMA SLNA-180-30-32-SMA](#)

URL: <https://www.fairviewmicrowave.com/1-18-ghz-medium-power-broadband-amplifier-slna-180-30-32-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.



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 GHz to 18 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and SMA		DWG NO SLNA-180-30-32-SMA		CAGE CODE 3FKR5	
CAD FILE 110414		SHEET		SCALE N/A SIZE A 2233	