

2 GHz to 18 GHz, with 13 dBm, 33 dB Gain and SMA

SLNA-180-30-35-SMA-B is a 10 dBm power amplifier designed for operation in the 2 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, DC Voltage = 12Volts, DC Current = 180mA)

Description	Min	Typ	Max	Unit
Frequency Range	2		18	GHz
Gain	30	33		dB
Gain Flatness		±1.5	±2	dB
P1dB	+10	+13		dBm
Noise Figure		3.5	4.5	dB
Input VSWR		1.9:1	2:1	
Output VSWR		1.9:1	2:1	
Operating DC Voltage		12		Volts
Operating DC Current		180	220	mA
Operating Temperature Range (OTR)	-30		+70	°C

Mechanical Specifications

Size	
Length	1.093 in [27.76 mm]
Width	1.33 in [33.78 mm]
Height	0.382 in [9.7 mm]
Input Connector	SMA
Output Connector	SMA
Cooling	ADEQUATE HEAT-SINK REQUIRED

Environmental Specifications

Temperature	
Operating Range	-30 to +70 deg C
Shock	RTCS, DO-160C
Vibration	RTCS, DO-160C

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.



Features:

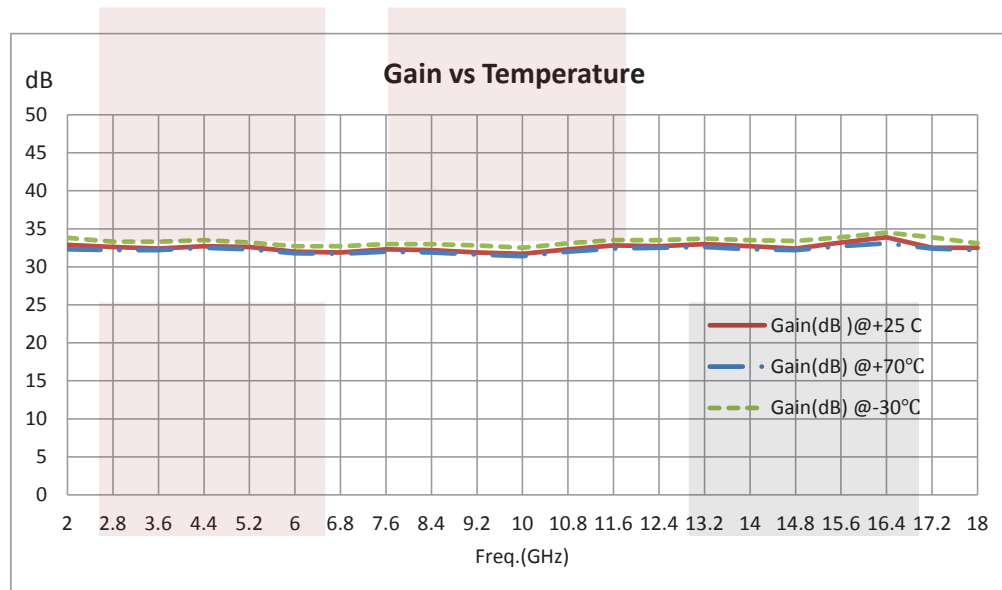
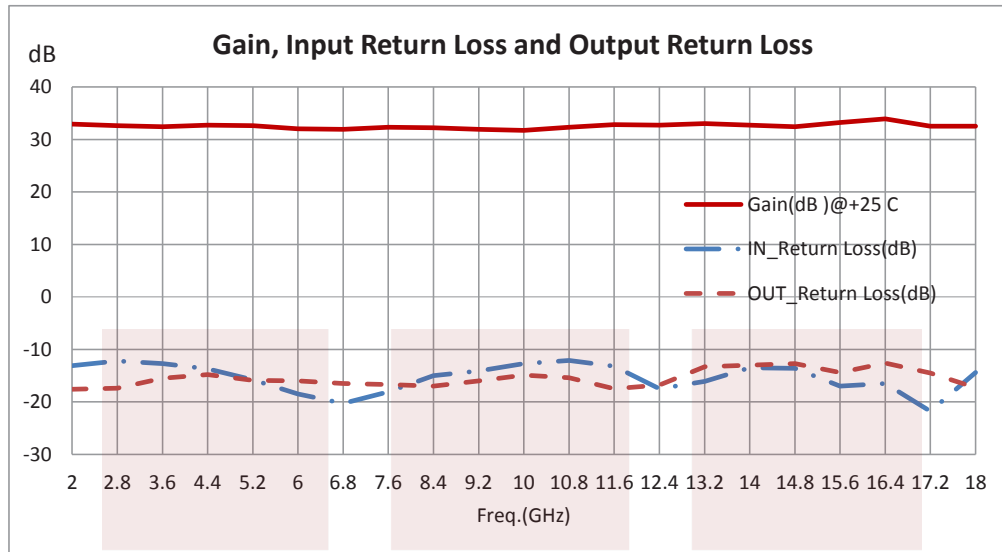
- 2 GHz to 18 GHz Frequency Range
- P1dB +13 dBm typ.
- Gain 30 dB min.
- Gain Flatness +/-1.5 dB typ

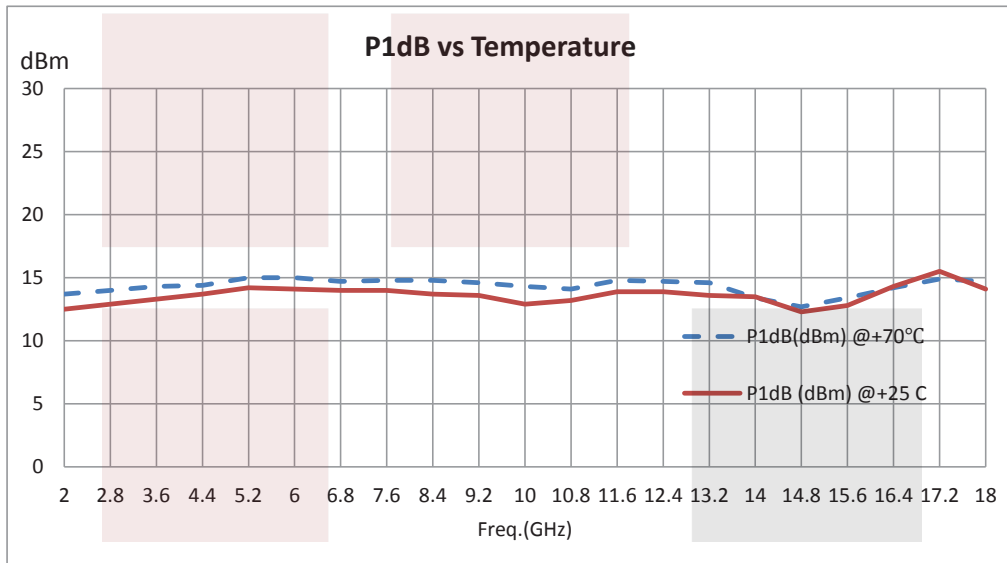
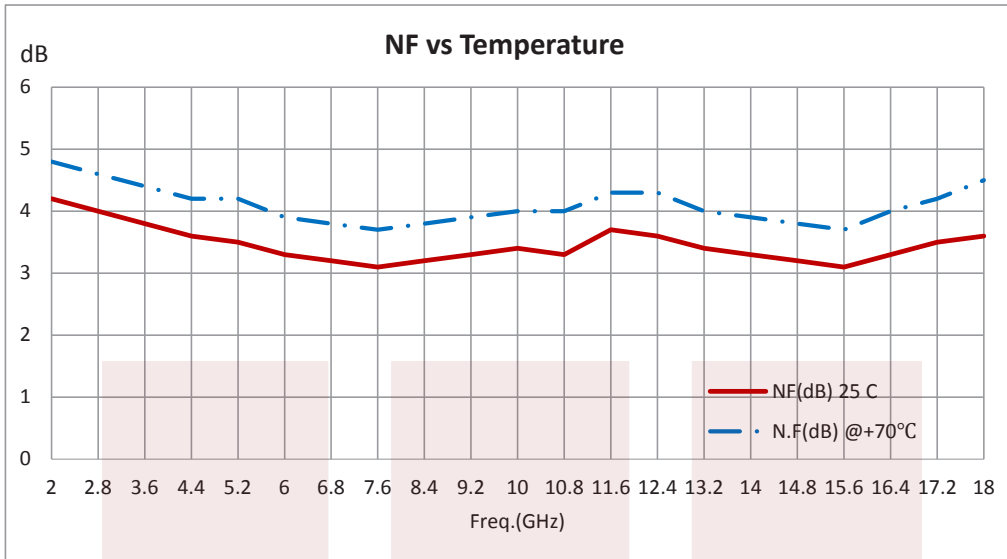
Applications:

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

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Typical Performance Data



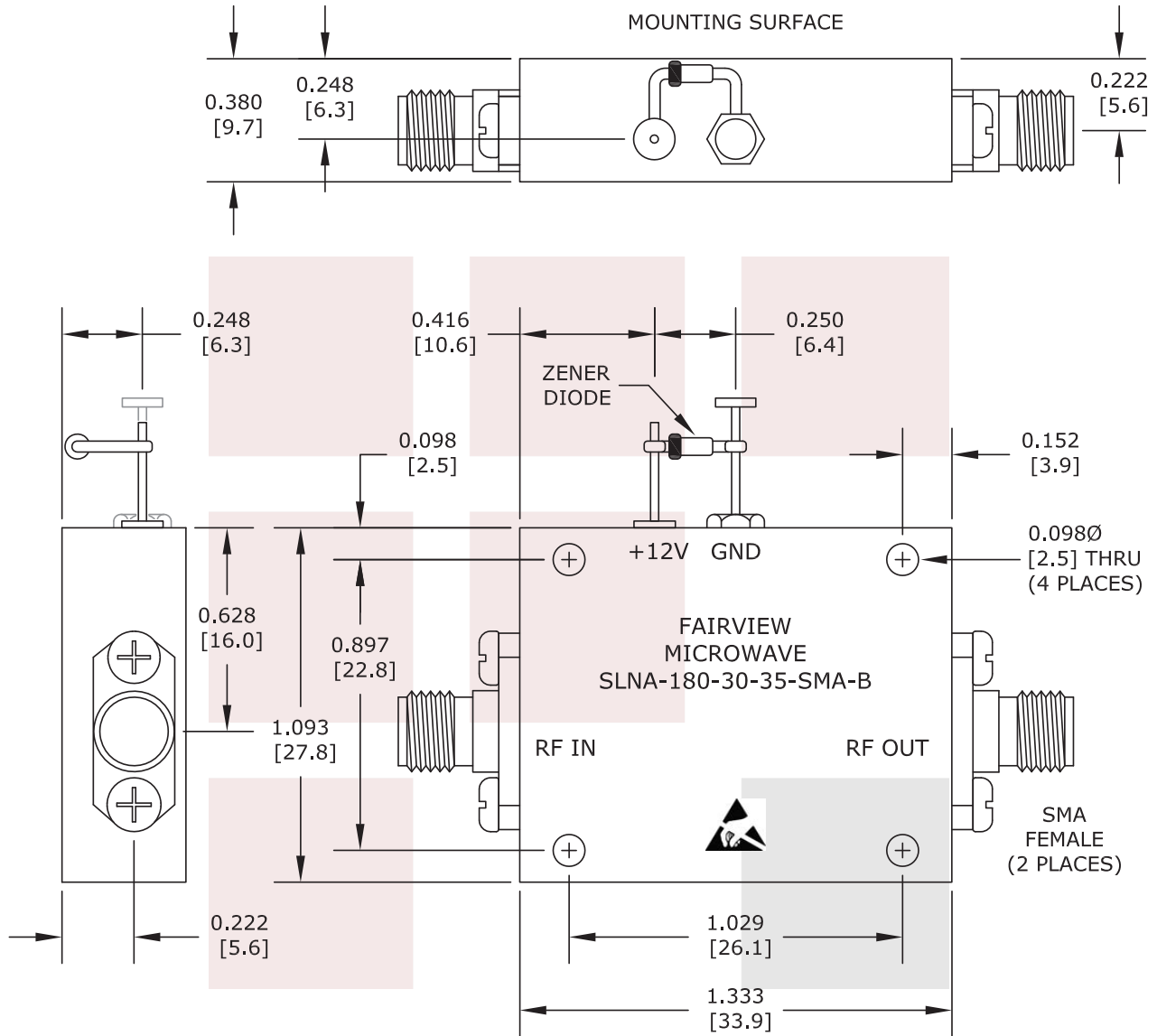


2 GHz to 18 GHz, with 13 dBm, 33 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 GHz to 18 GHz, with 13 dBm, 33 dB Gain and SMA SLNA-180-30-35-SMA-B](http://www.fairviewmicrowave.com/2-18-ghz-medium-power-broadband-amplifier-slna-180-30-35-sma-b-p.aspx)

URL: <http://www.fairviewmicrowave.com/2-18-ghz-medium-power-broadband-amplifier-slna-180-30-35-sma-b-p.aspx>

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TITLE 2 GHz to 18 GHz, with 13 dBm, 33 dB Gain and SMA		DWG NO SLNA-180-30-35-SMA-B		CAGE CODE 3FKR5	
CAD FILE	103014	SHEET	SCALE	N/A	SIZE A 2233