

800 MHz to 5.5 GHz, Medium Power Broadband Amplifier with 600 mW, 20 dB Gain and SMA

SLNA-055-20-003-SMA is a 25 dBm power amplifier designed for operation in the 0.8 GHz to 5.5 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 = 750mA)

Description	Min	Typ	Max	Unit
Frequency Range	0.8		5.5	GHz
Gain	20			dB
P1dB	+24	+25		dBm
Saturation Output Power	+27	+28		dBm
IP3	+33	+34		dBm
Input VSWR		1.8:1	2:1	
Output VSWR		1.8:1	2:1	
Operating DC Voltage		12		Volts
Operating DC Current		750	770	mA
Operating Temperature Range (OTR)	-30		+60	°C

Configuration

- Connector 1 SMA Female
- Connector 2 SMA Female

Environmental Specifications
Temperature

- Operating Range -30 to +60 deg C
- Shock RTCS, DO-160C
- Vibration RTCS, DO-160C
- Temperature Cycle MIL-STD-883, METH-OD 1010

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:

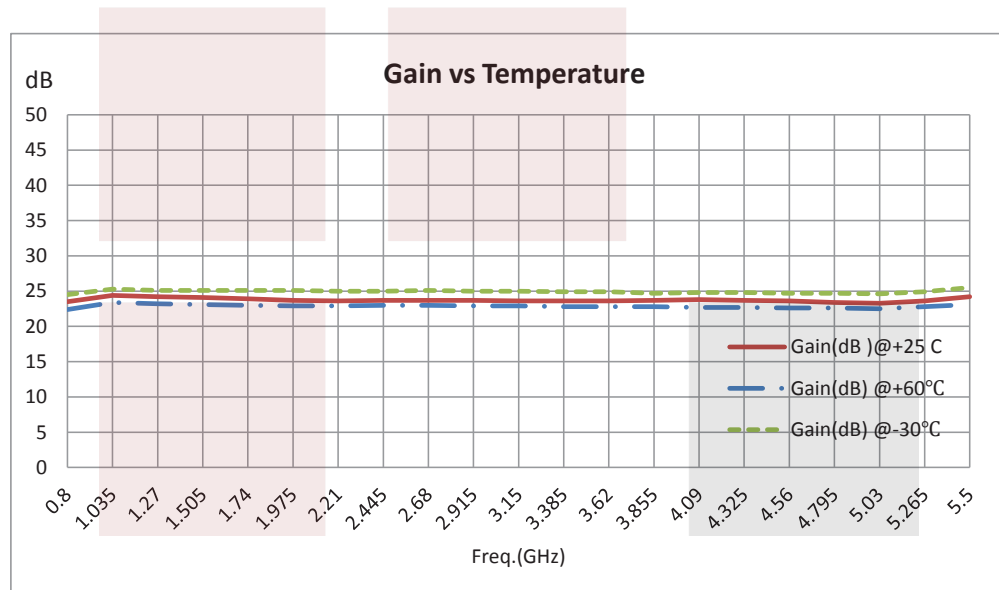
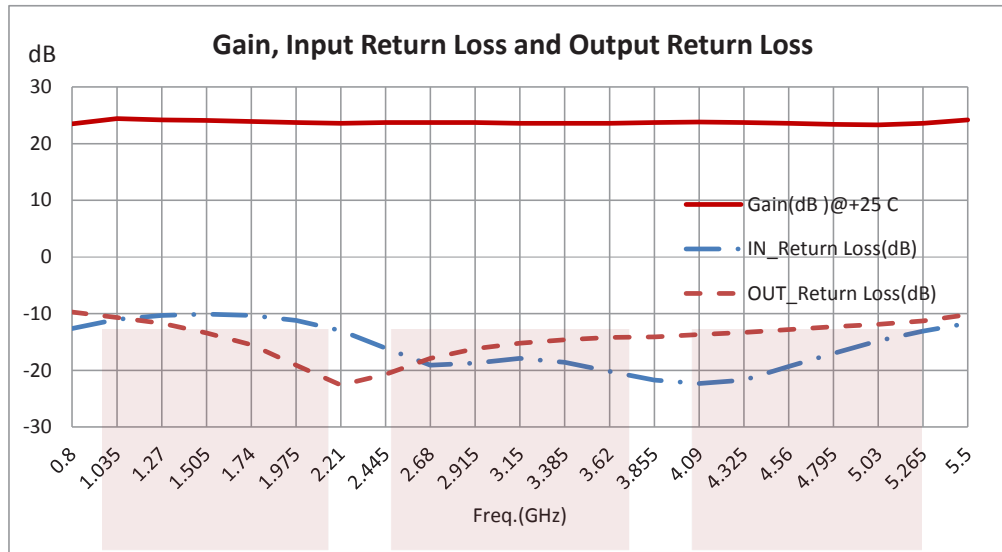
- 0.8 GHz to 5.5 GHz Frequency Range
- P1dB +25 dBm typ.
- Psat 28 dBm typ
- IP3 34 dBm typ
- Gain 20 dB min.
- Gain Flatness +/-0.5 dB typ

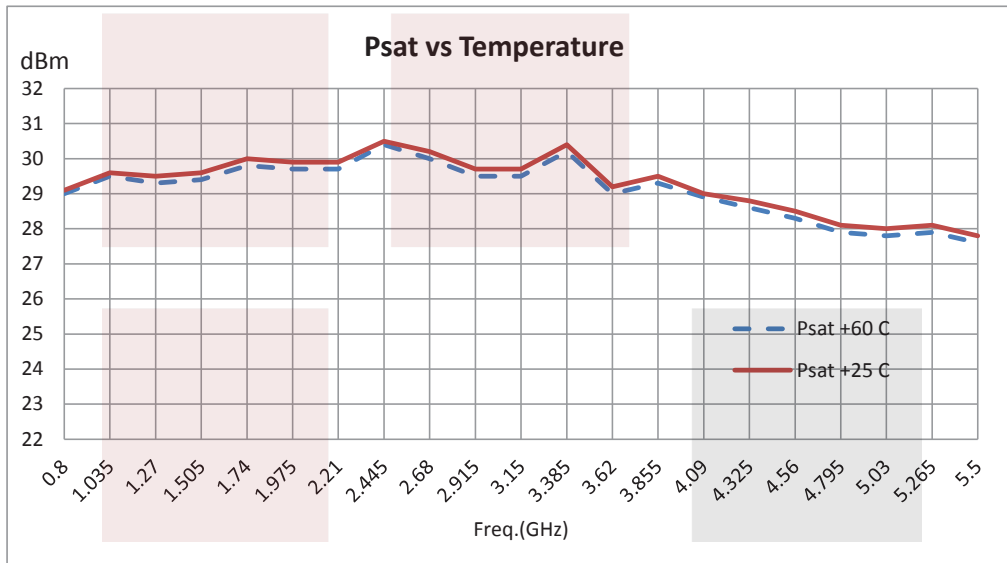
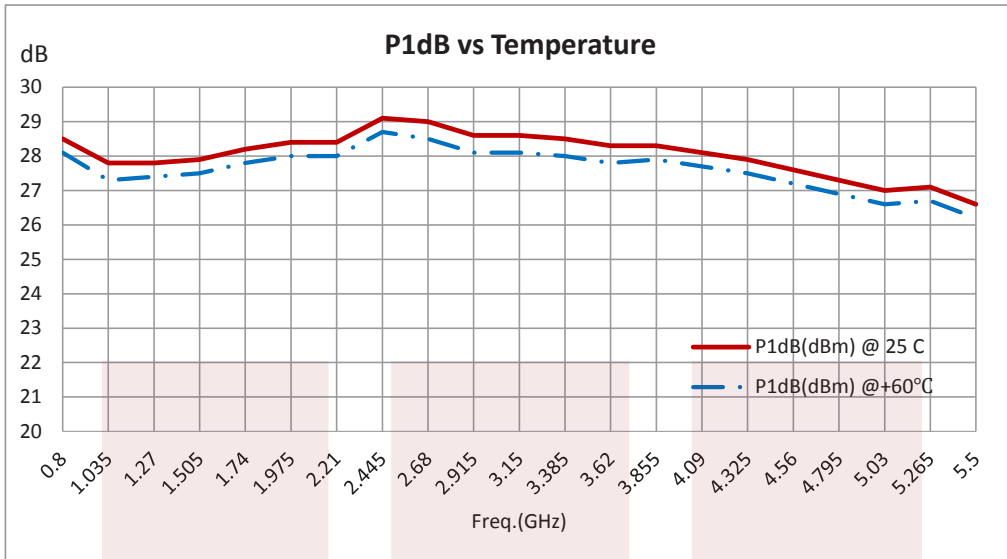
Applications:

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

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Typical Performance Data





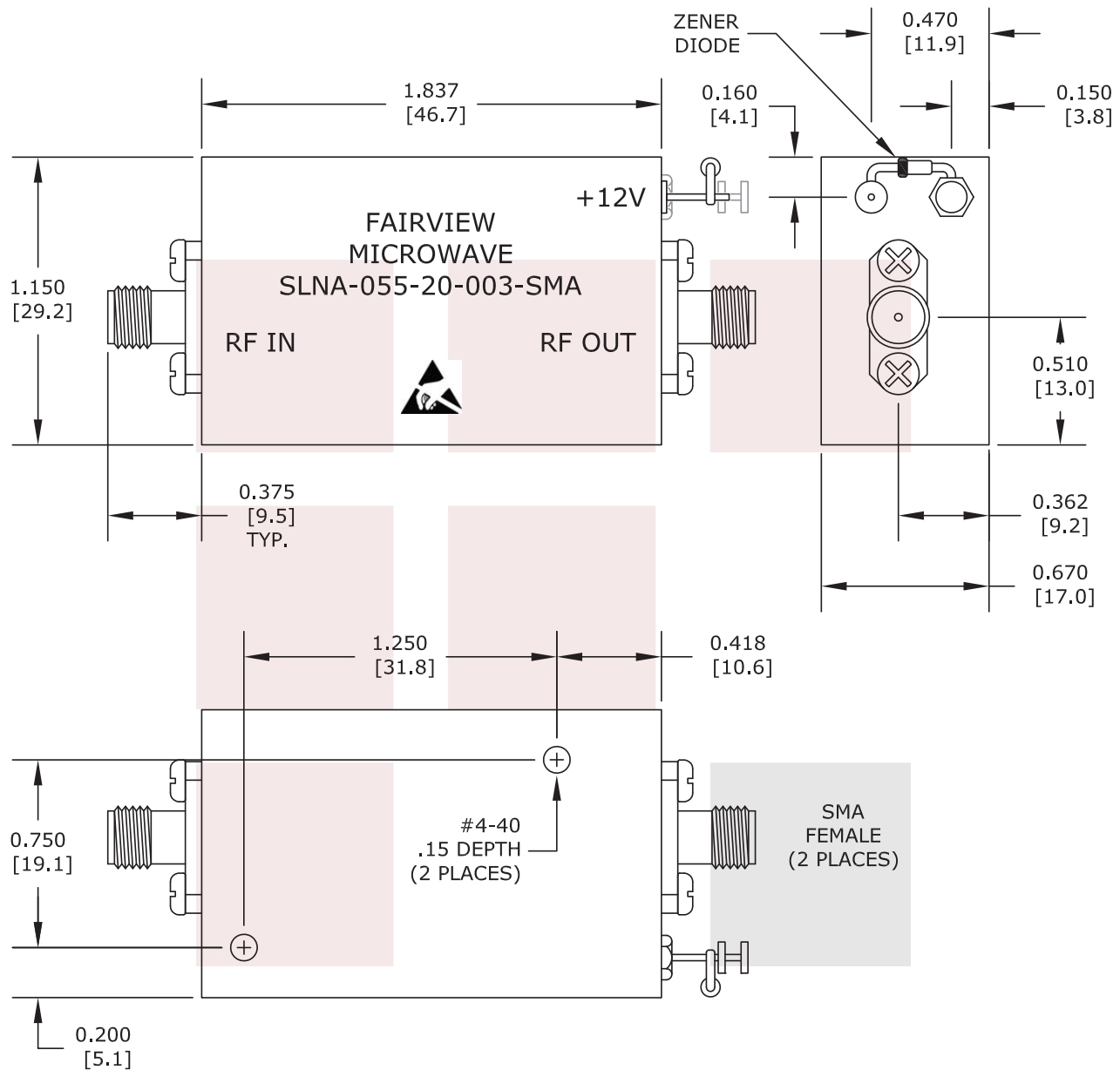
800 MHz to 5.5 GHz, Medium Power Broadband Amplifier with 600 mW, 20 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [800 MHz to 5.5 GHz, Medium Power Broadband Amplifier with 600 mW, 20 dB Gain and SMA SLNA-055-20-003-SMA](#)

URL: <http://www.fairviewmicrowave.com/800-mhz-5.5-ghz-medium-power-broadband-amplifier-slna-055-20-003-sma-p.aspx>

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TITLE 800 MHz to 5.5 GHz, Medium Power Broadband Amplifier with 600 mW, 20 dB Gain and SMA		DWG NO SLNA-055-20-003-SMA		CAGE CODE 3FKR5	
CAD FILE	110414	SHEET	SCALE	N/A	SIZE A 2233