

800 MHz to 5.5 GHz, Medium Power Broadband Amplifier with 600 mW, 12 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, VDC1 = 12 Vdc)

Description	Min	Typ	Max	Unit
Frequency Range	0.8		5.5	GHz
Gain	20	12		dB
Gain Flatness		±0.5		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 1		12		Volts
Operating DC Current		750	770	mA
Operating Temperature Range (OTR)	-30		+60	°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]
Weight	0.149 lbs [67.59 g]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-30 to +60 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:



Features:

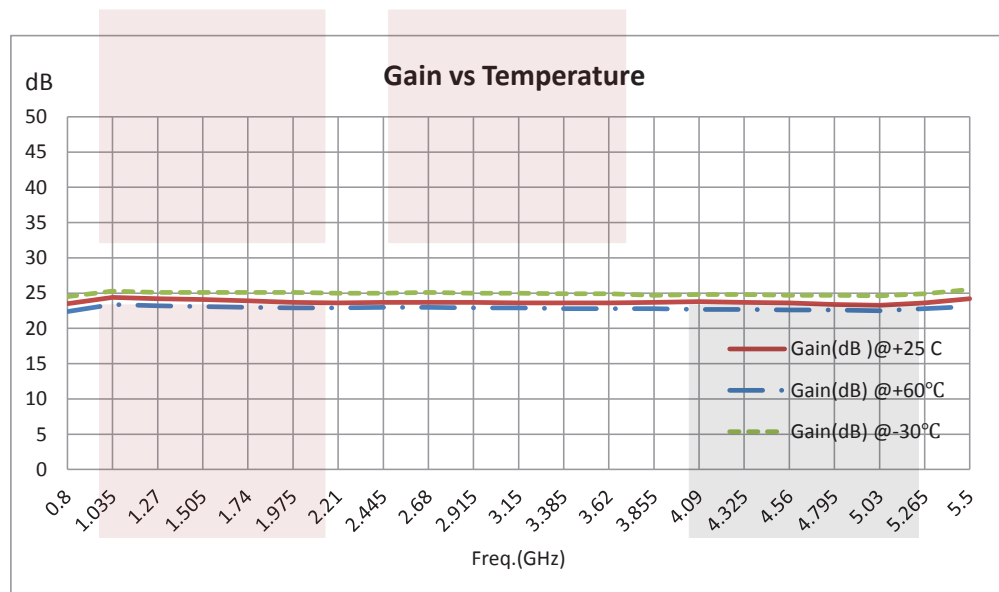
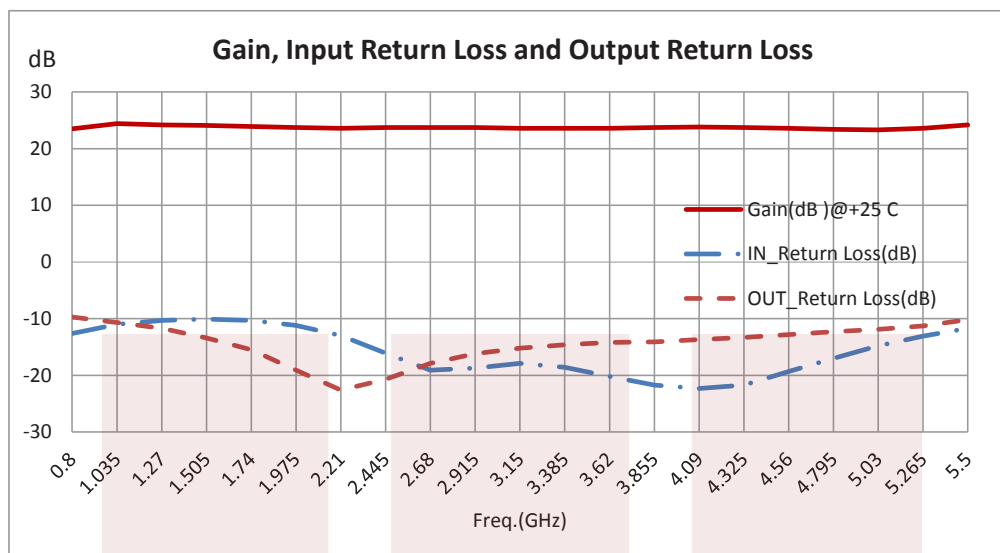
- 0.8 GHz to 5.5 GHz Frequency Range
- P1dB +25 dBm typ.
- Psat 28 dBm typ
- IP3 34 dBm typ
- Gain 20 dB min.
- Gain Flatness +/-0.5 dB typ

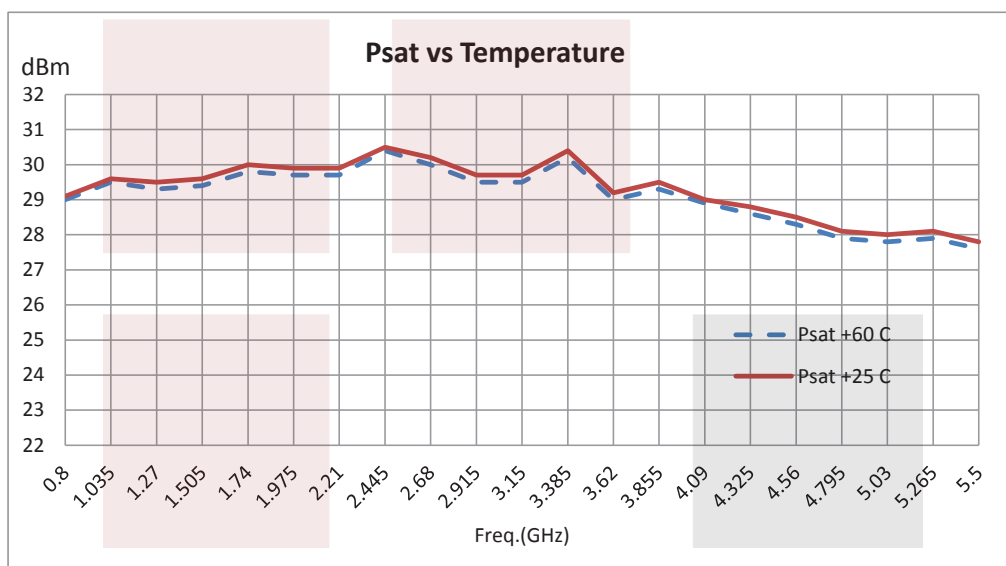
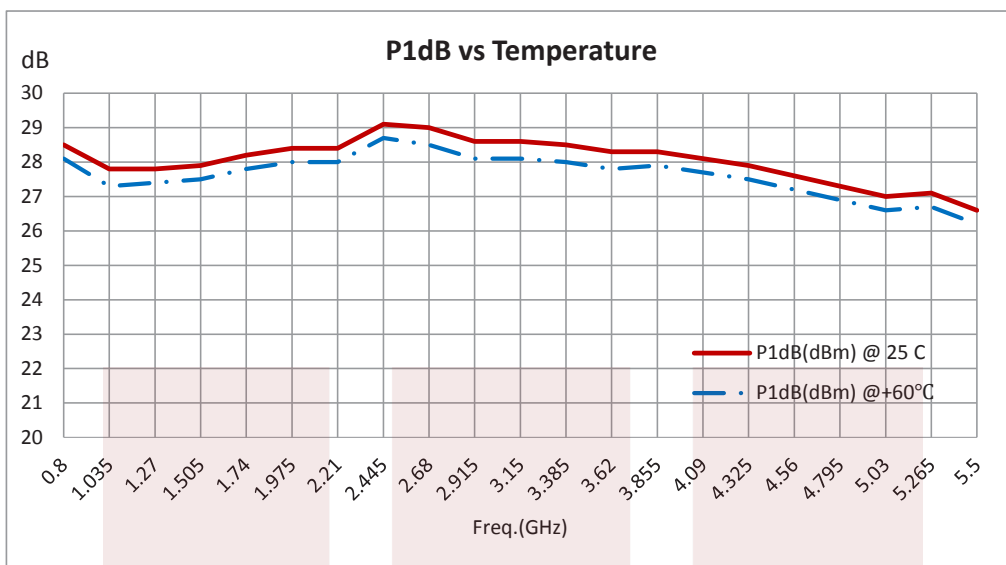
Applications:

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

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Typical Performance Data



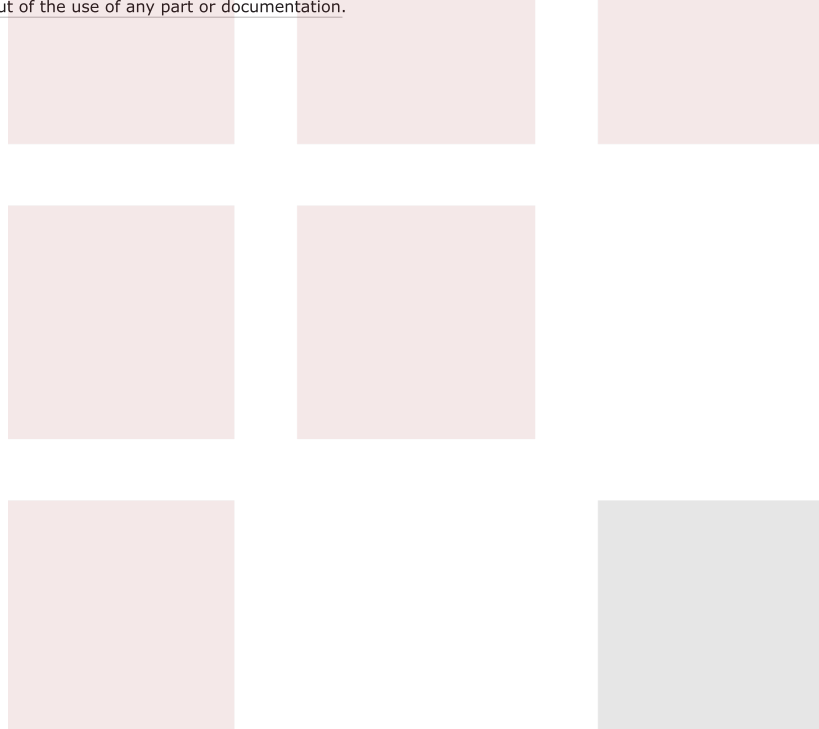


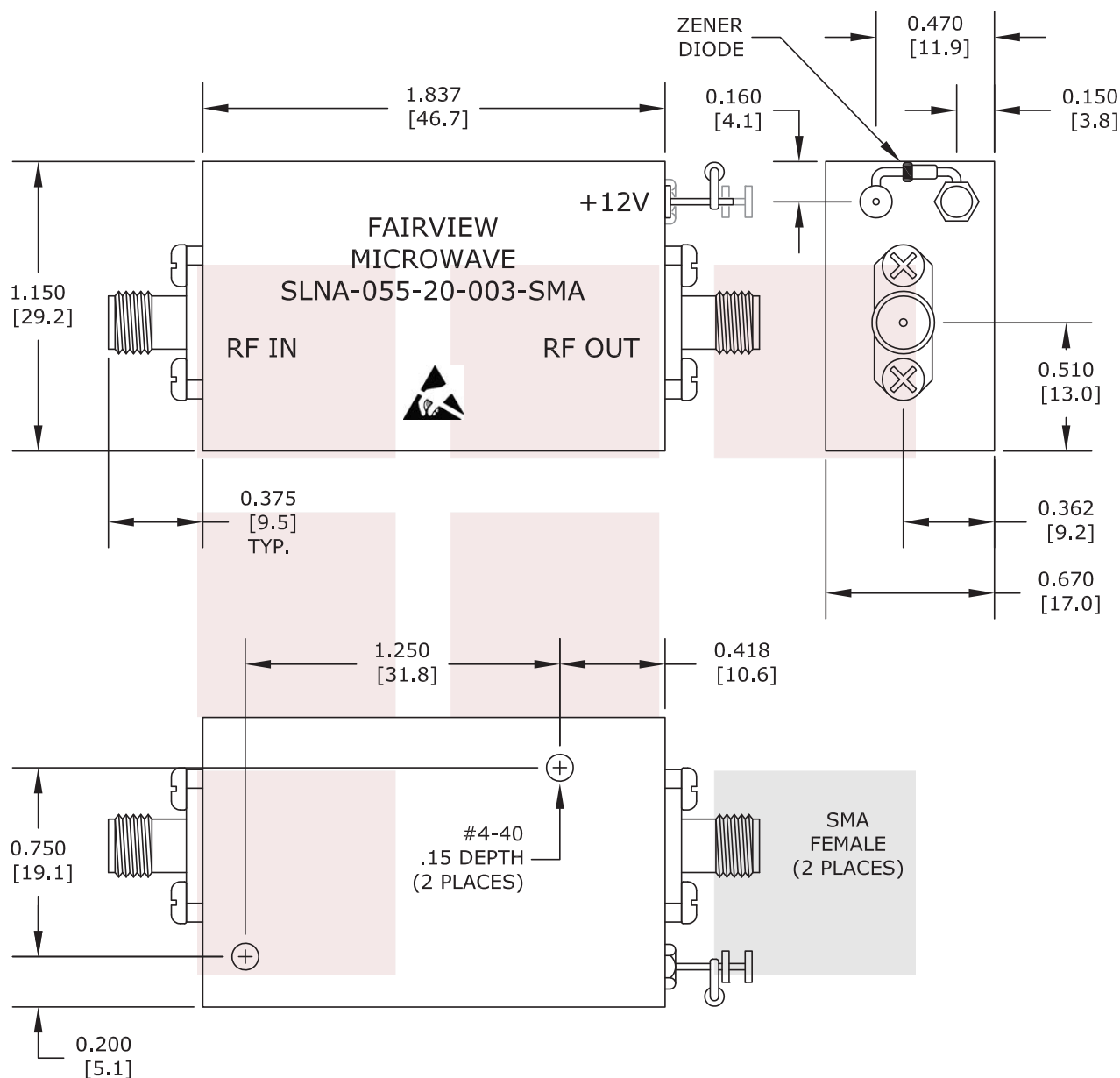
800 MHz to 5.5 GHz, Medium Power Broadband Amplifier with 600 mW, 12 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [800 MHz to 5.5 GHz, Medium Power Broadband Amplifier with 600 mW, 12 dB Gain and SMA SLNA-055-20-003-SMA](#)

URL: <https://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, 12 dB Gain and SMA		DWG NO SLNA-055-20-003-SMA		CAGE CODE 3FKR5	
CAD FILE	110414	SHEET	SCALE	N/A	SIZE A 2233