

2 GHz to 8 GHz, Medium Power Broadband Amplifier with 900 mW, 33 dB Gain and SMA

SPA-080-30-01-SMA is a 30 dBm power amplifier designed for operation in the 2 GHz to 8 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 +8.5 VDC power supply.

Electrical Specifications (TA= 25°C, VDC1 = 8.5 Vdc)

Description	Min	Typ	Max	Unit
Frequency Range	2		8	GHz
Gain	29	33		dB
Gain Flatness		±1.5	±2	dB
P1dB	+29.4			dBm
Input VSWR		1.5:1	2:1	
Output VSWR		1.5:1	2:1	
TTL Control	"0" - Off(0V) ; "1" - On(5V)			
Operating DC Voltage 1	8.45	8.5	8.6	Volts
Operating DC Current			941	mA
Operating Temperature Range (OTR)	-30		+70	°C

Mechanical Specifications

Size	
Length	2.15 in [54.61 mm]
Width	1.55 in [39.37 mm]
Height	0.36 in [9.14 mm]
Weight	0.1475 lbs [66.9 g]
Input Connector	SMA Female
Output Connector	SMA Female

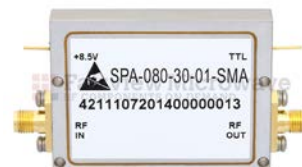
Environmental Specifications

Temperature	
Operating Range	-30 to +70 deg C
Shock	RTCA, DO-160C
Vibration	RTCA, DO-160C
Temperature Cycling	MIL-STD-883, METHOD 1010

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Features:

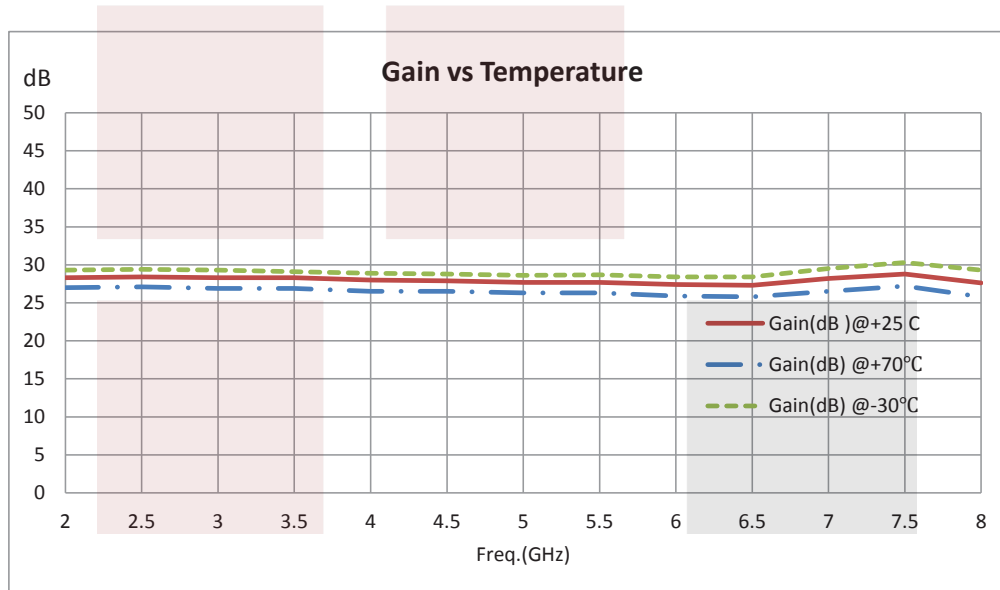
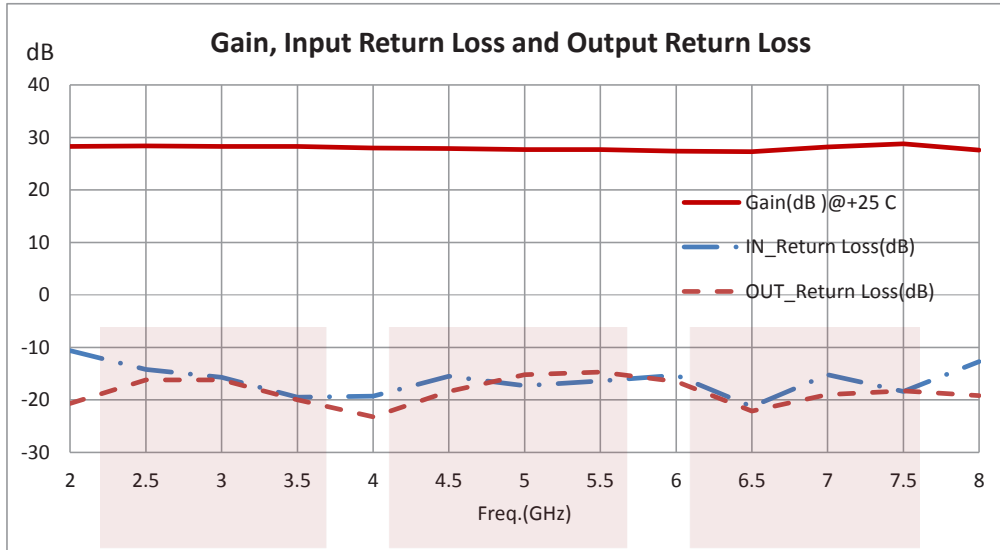
- 2 GHz to 8 GHz Frequency Range
- P1dB 29.4 dBm min.
- Gain 29 dB min.
- Gain Flatness +/-1.5 dB

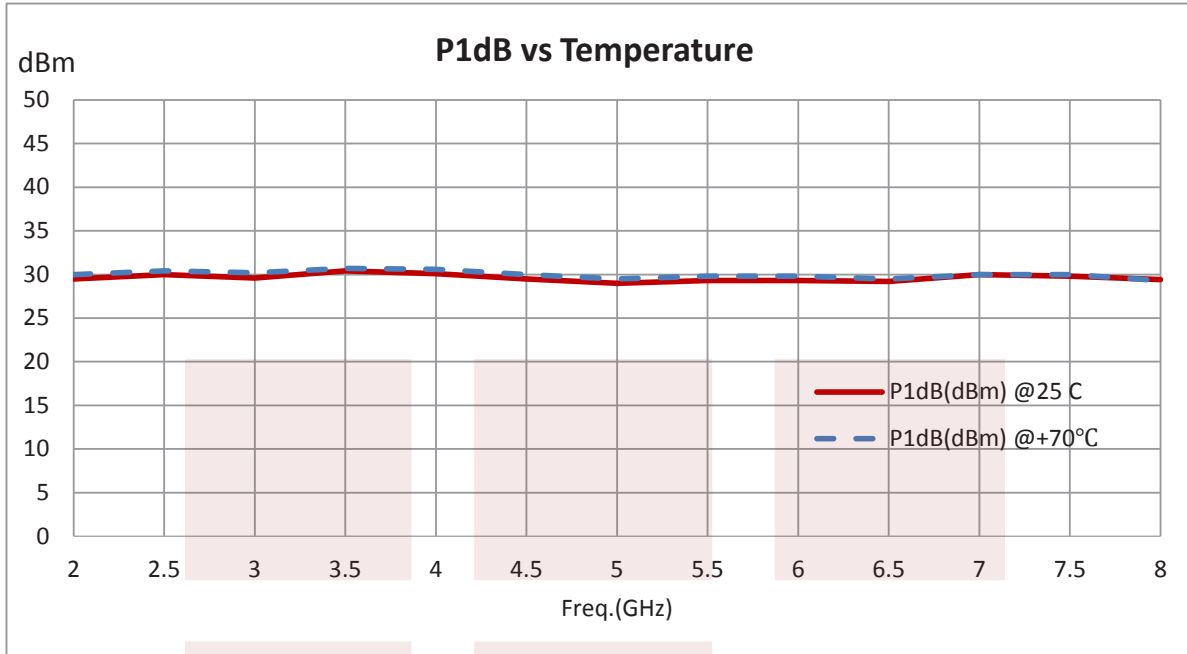
Applications:

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

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data



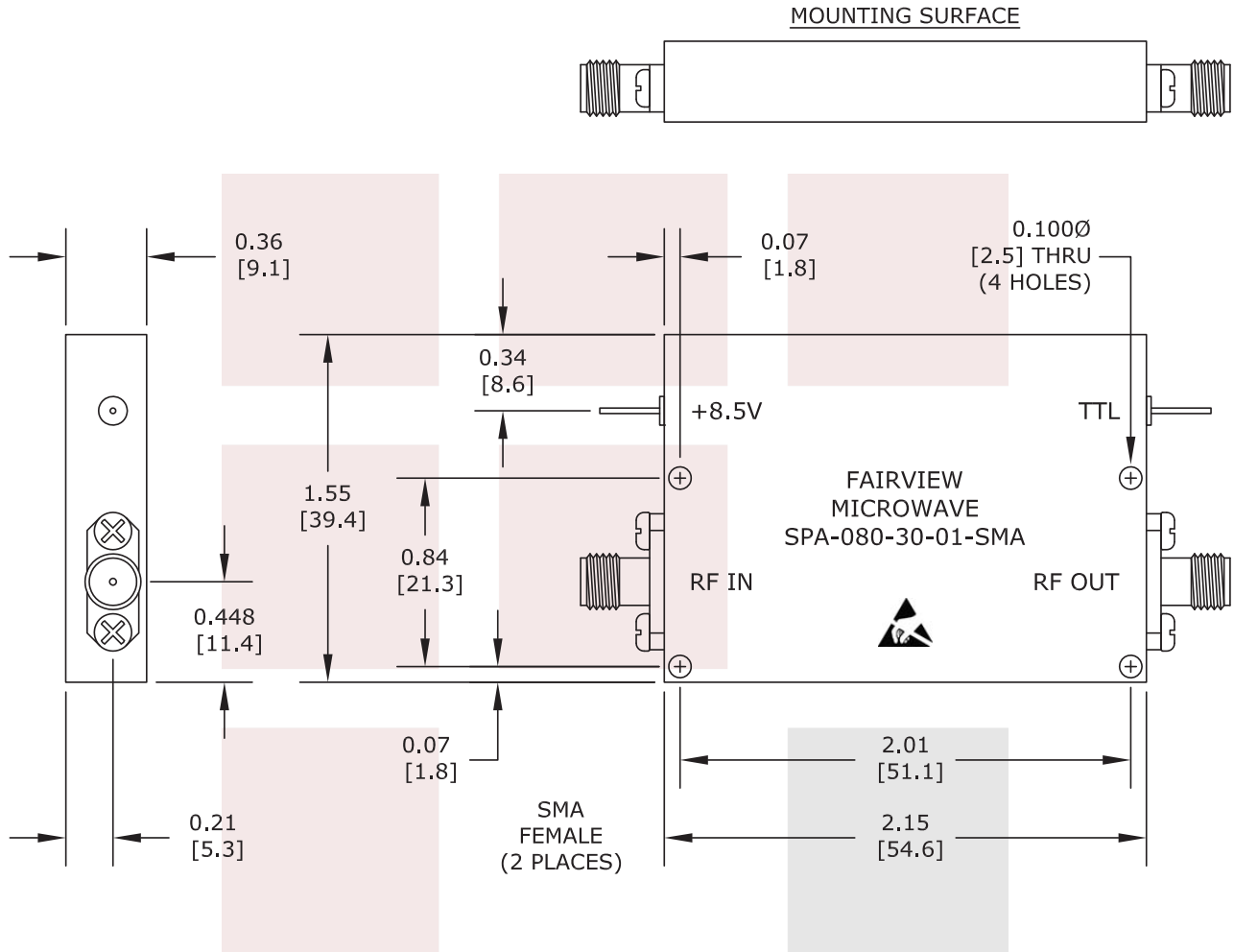


2 GHz to 8 GHz, Medium Power Broadband Amplifier with 900 mW, 33 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 GHz to 8 GHz, Medium Power Broadband Amplifier with 900 mW, 33 dB Gain and SMA SPA-080-30-01-SMA](#)

URL: <https://www.fairviewmicrowave.com/2-8-ghz-medium-power-broadband-amplifier-spa-080-30-01-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 2 GHz to 8 GHz, Medium Power Broadband Amplifier with 900 mW, 33 dB Gain and SMA		DWG NO SPA-080-30-01-SMA		CAGE CODE 3FKR5	
CAD FILE	120414	SHEET	SCALE	N/A	SIZE A 2233