

6 GHz to 18 GHz, Medium Power Broadband Amplifier with 27 dBm, 36 dB Gain and SMA

SPA-180-36-005-SMA is a 27 dBm power amplifier designed for operation in the 6 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 +15 VDC power supply.

Electrical Specifications (TA= 25°C, VDC1 = 15 Vdc)

Description	Min	Typ	Max	Unit
Frequency Range	6		18	GHz
Gain	36			dB
Gain Flatness			±2	dB
P1dB	+27			dBm
Input VSWR		1.8:1	2:1	
Output VSWR		1.8:1	2:1	
Operating DC Voltage 1	14	15	16	Volts
Operating DC Current		800		mA
Operating Temperature Range (OTR)	-30		+70	°C

Mechanical Specifications

Size	
Length	1.093 in [27.76 mm]
Width	2.083 in [52.91 mm]
Height	0.382 in [9.7 mm]
Weight	0.1195 lbs [54.2 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:

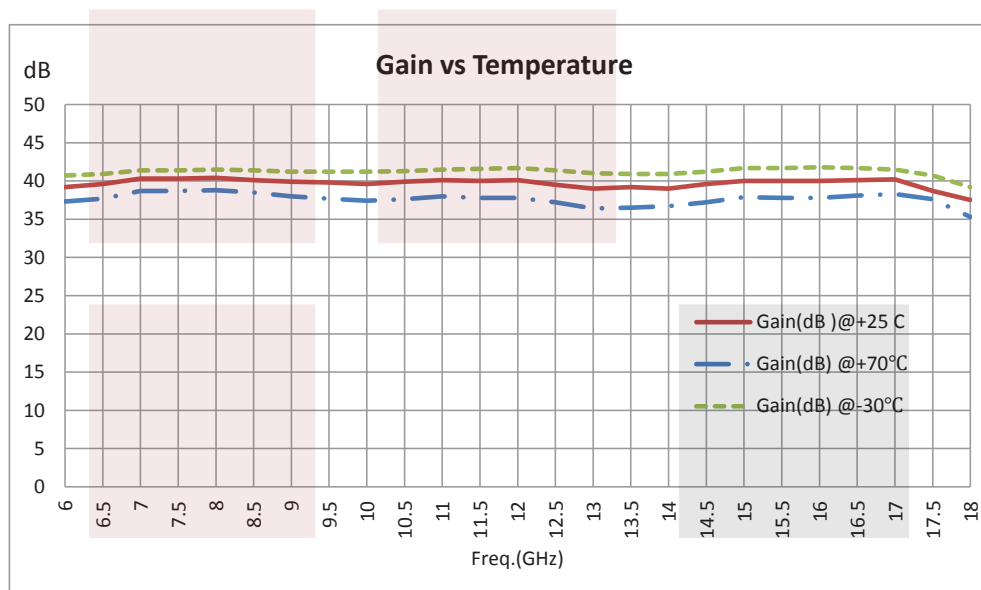
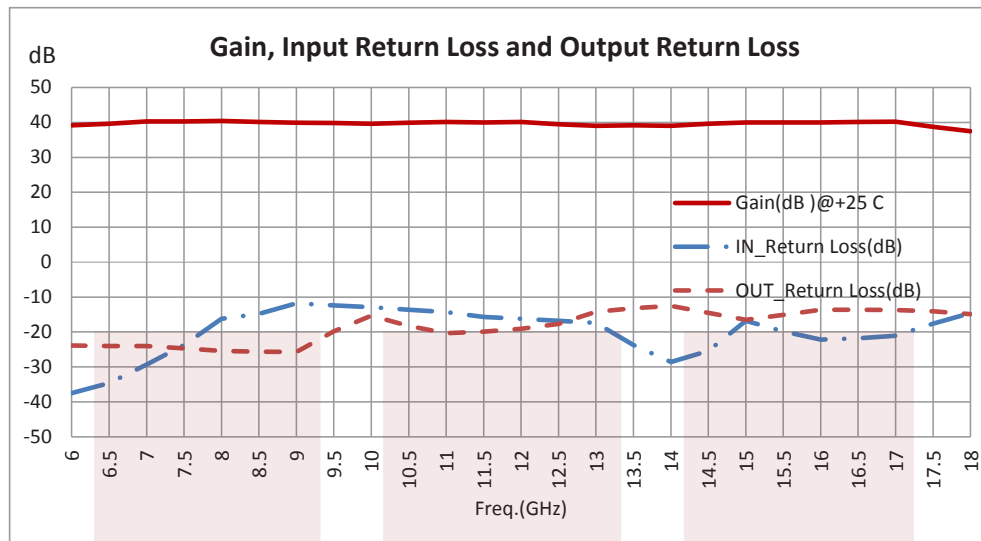
- 6 GHz to 18 GHz Frequency Range
- P1dB 27 dBm min.
- Gain 36 dB min.
- Gain Flatness +/-2.0 dB

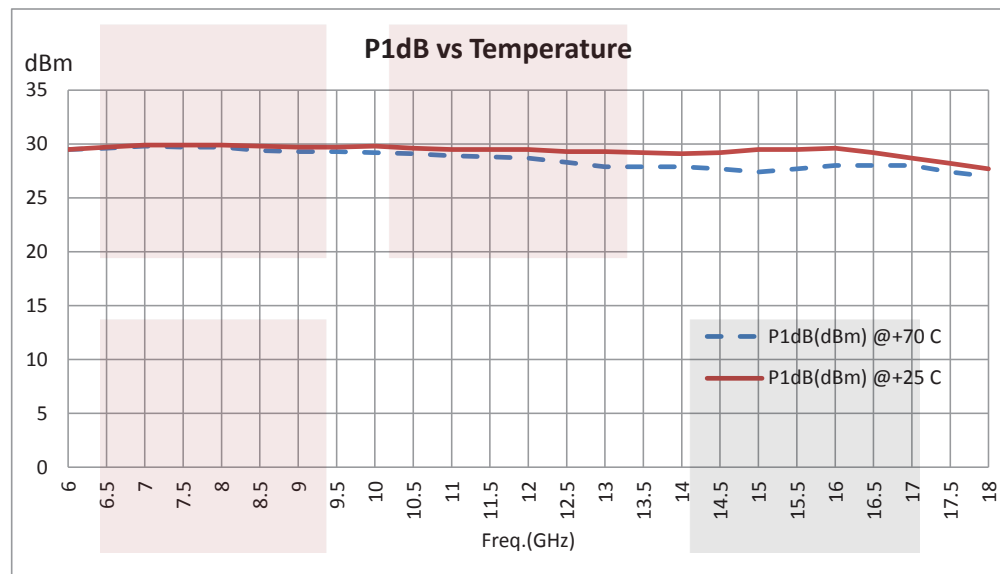
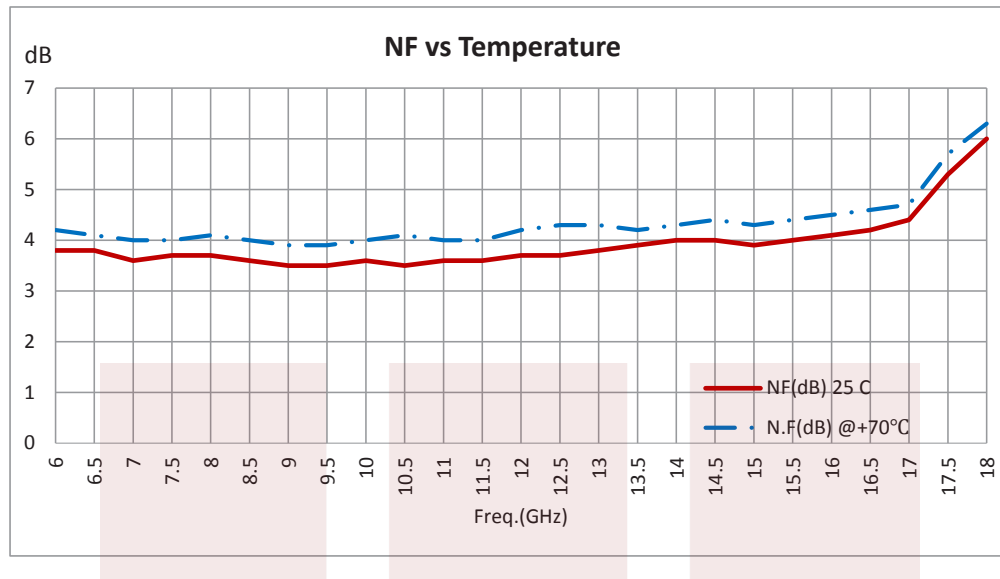
Applications:

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

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Typical Performance Data



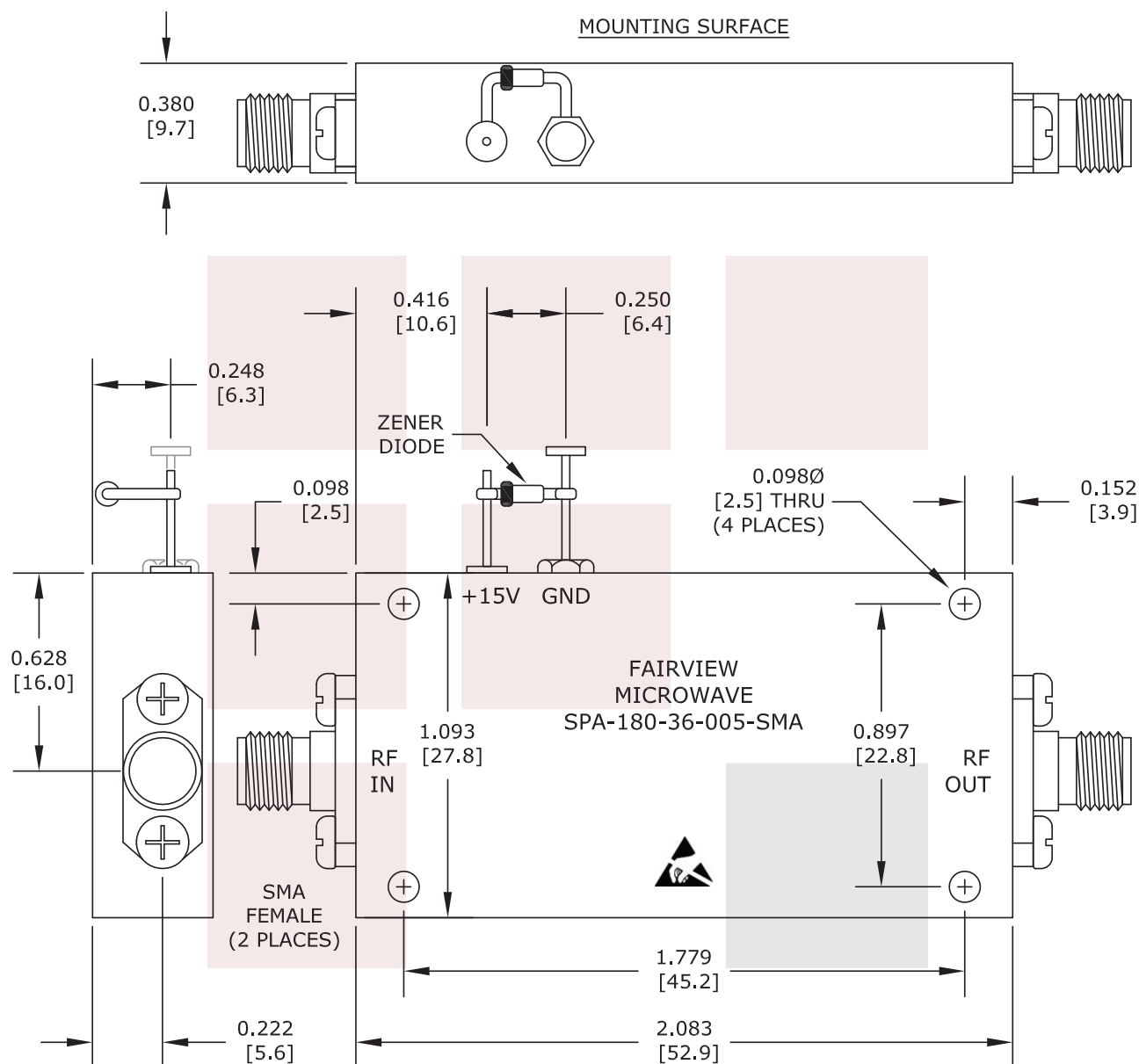


6 GHz to 18 GHz, Medium Power Broadband Amplifier with 27 dBm, 36 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [6 GHz to 18 GHz, Medium Power Broadband Amplifier with 27 dBm, 36 dB Gain and SMA SPA-180-36-005-SMA](https://www.fairviewmicrowave.com/6-18-ghz-medium-power-broadband-amplifier-spa-180-36-005-sma-p.aspx)

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TITLE 6 GHz to 18 GHz, Medium Power Broadband Amplifier with 27 dBm, 36 dB Gain and SMA		DWG NO SPA-180-36-005-SMA		CAGE CODE 3FKR5	
CAD FILE	120414	SHEET	SCALE	N/A	SIZE A 2233