

6 GHz to 18 GHz, Medium Power Broadband Amplifier with 500 mW, 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, DC Voltage = 15Volts, DC Current = 800mA)

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	14	15	16	Volts
Operating DC Current		800		mA
Operating Temperature Range (OTR)	-30		+70	°C

Configuration

- Connector 1 SMA Female
- Connector 2 SMA Female

Environmental Specifications

Temperature

- Operating Range -30 to +70 deg C
- Shock RTCA, DO-160C
- Vibration RTCA, 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:

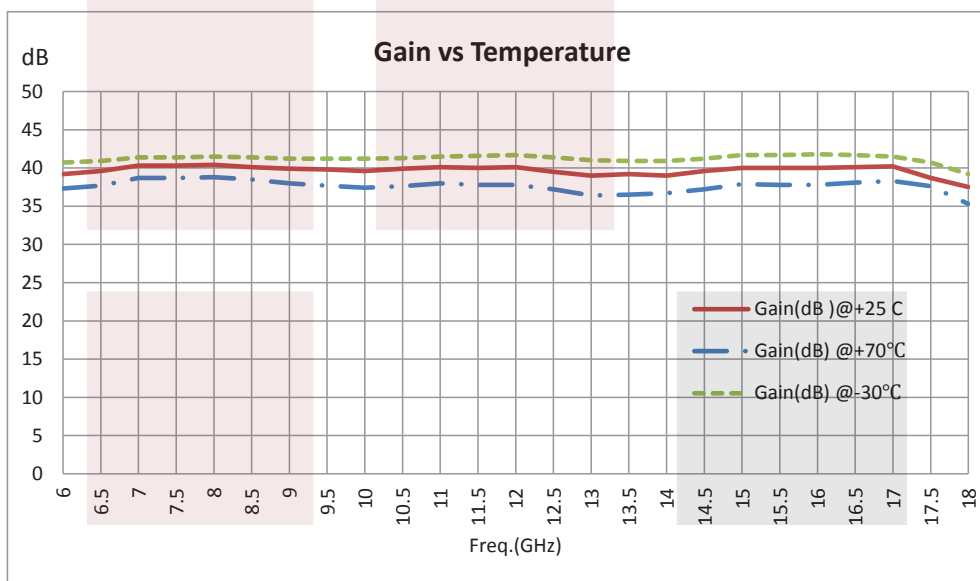
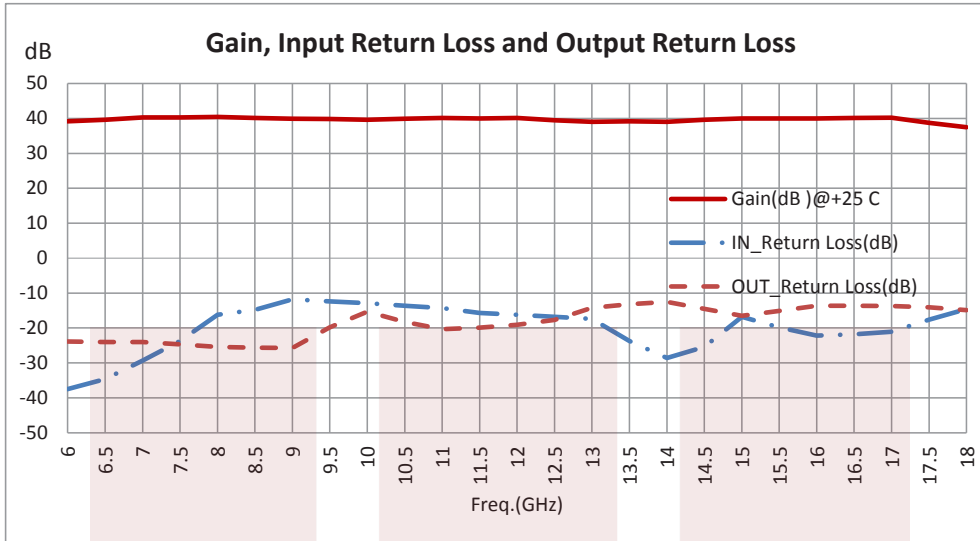
- 6 GHz to 18 GHz Frequency Range
- P1dB 27 dBm min.
- Gain 36 dB min.
- Gain Flatness +/-2.0 dB

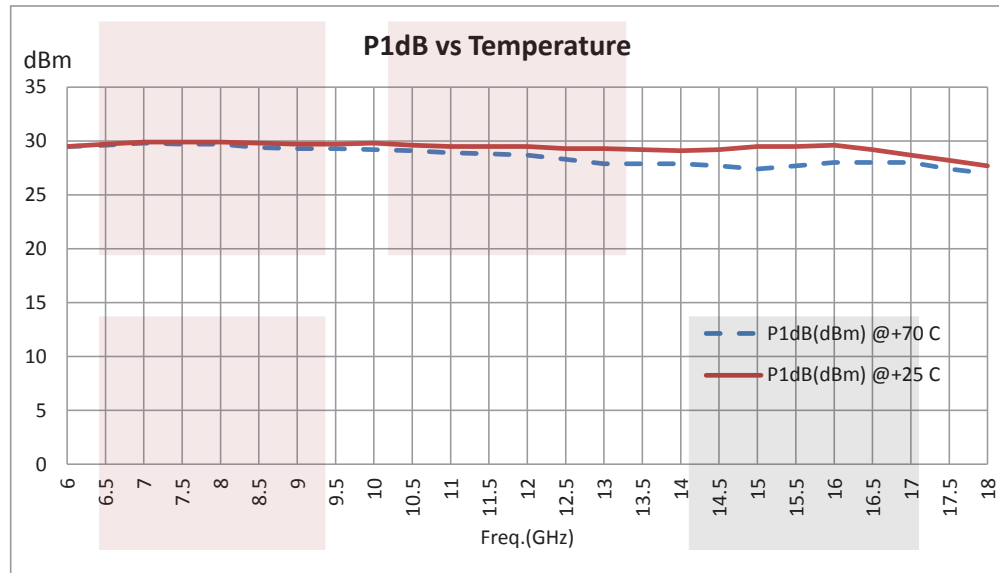
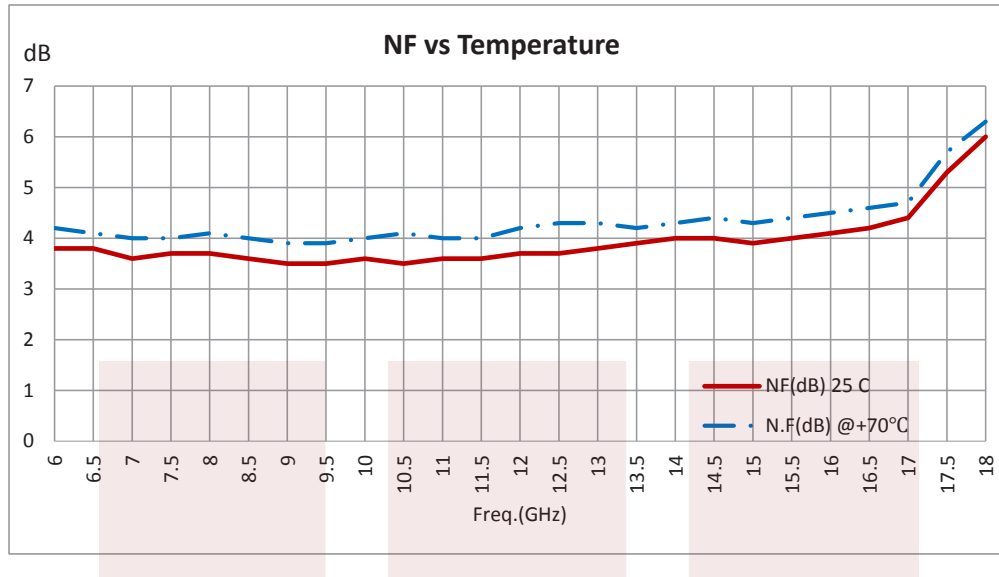
Applications:

- 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 500 mW, 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 500 mW, 36 dB Gain and SMA SPA-180-36-005-SMA](http://www.fairviewmicrowave.com/6-18-ghz-medium-power-broadband-amplifier-spa-180-36-005-sma)

URL: <http://www.fairviewmicrowave.com/6-18-ghz-medium-power-broadband-amplifier-spa-180-36-005-sma-p.asp>

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