

6 GHz to 18 GHz, Medium Power Broadband Amplifier with 500 mW, 42 dB Gain and SMA

SPA-180-38-005-SMA is a 27 dBm power amplifier designed for operation in the 6 GHz to 18 GHz frequency range. The amplifier provides an IP3 of 37 dBm Typ and 38 dB of Gain Min over the operating frequency range. 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 = 900mA)

Description	Min	Typ	Max	Unit
Frequency Range	6		18	GHz
Gain	38	42		dB
Gain Flatness		±2		dB
P1dB	+27			dBm
IP3		+37		dBm
Noise Figure		5.4		dB
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage	12	12	15	Volts
Operating DC Current		900		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:

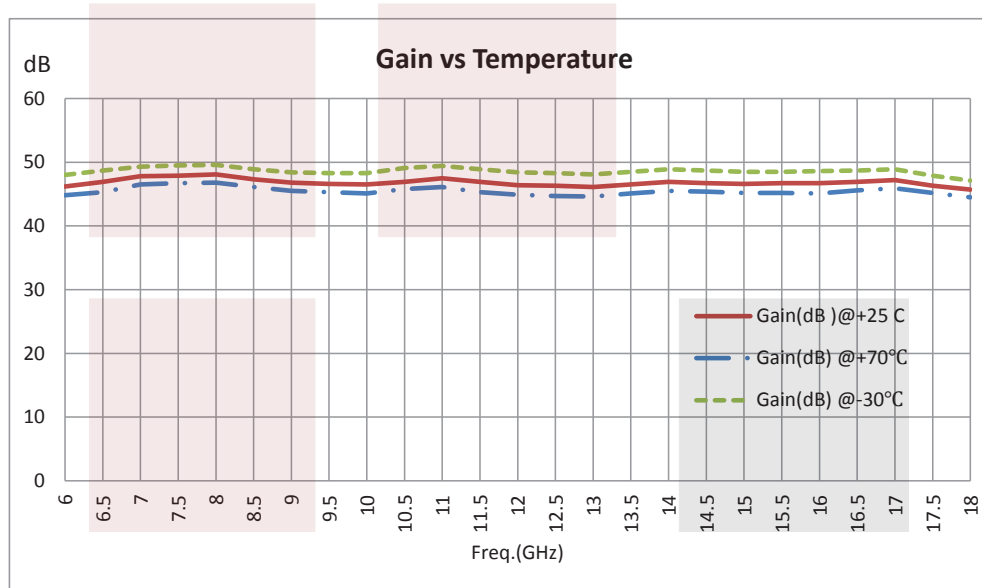
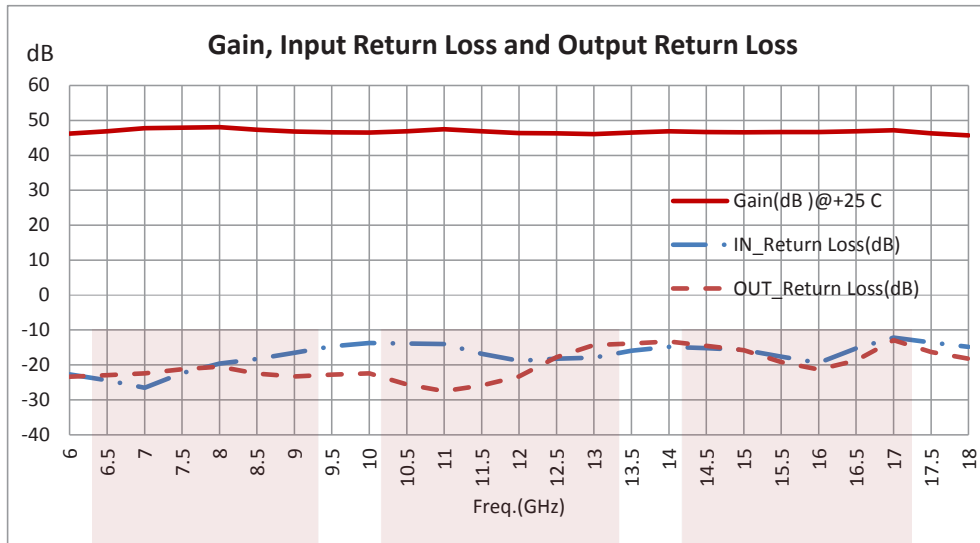
- 6 GHz to 18 GHz Frequency Range
- P1dB +27 dBm min.
- IP3 37 dBm typ
- Gain 38 dB min.
- Gain Flatness +/-2.0 dB typ

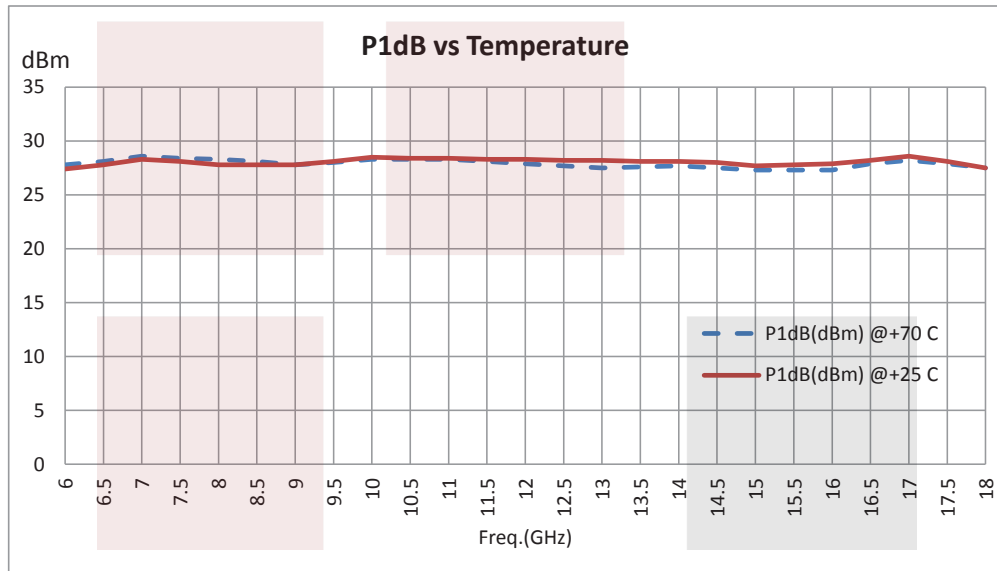
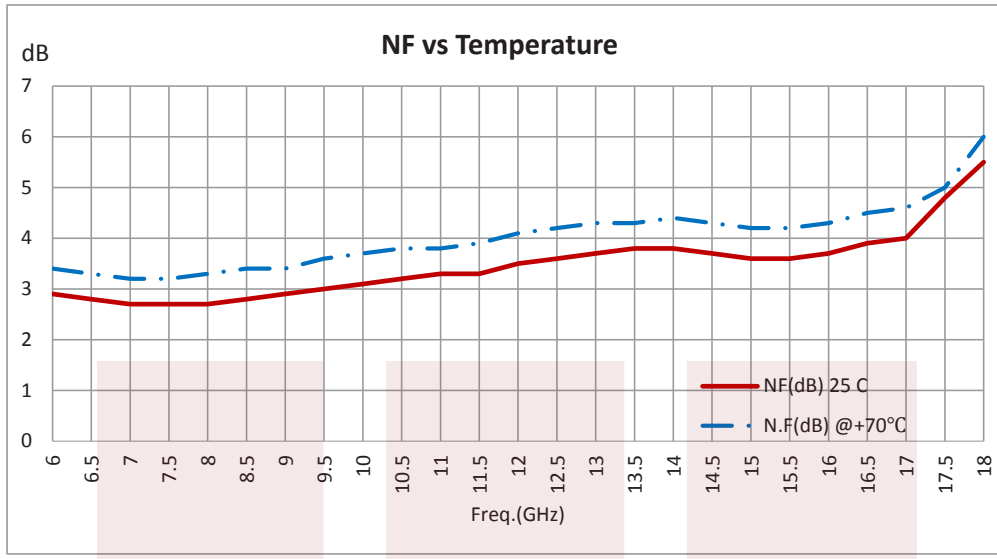
Applications:

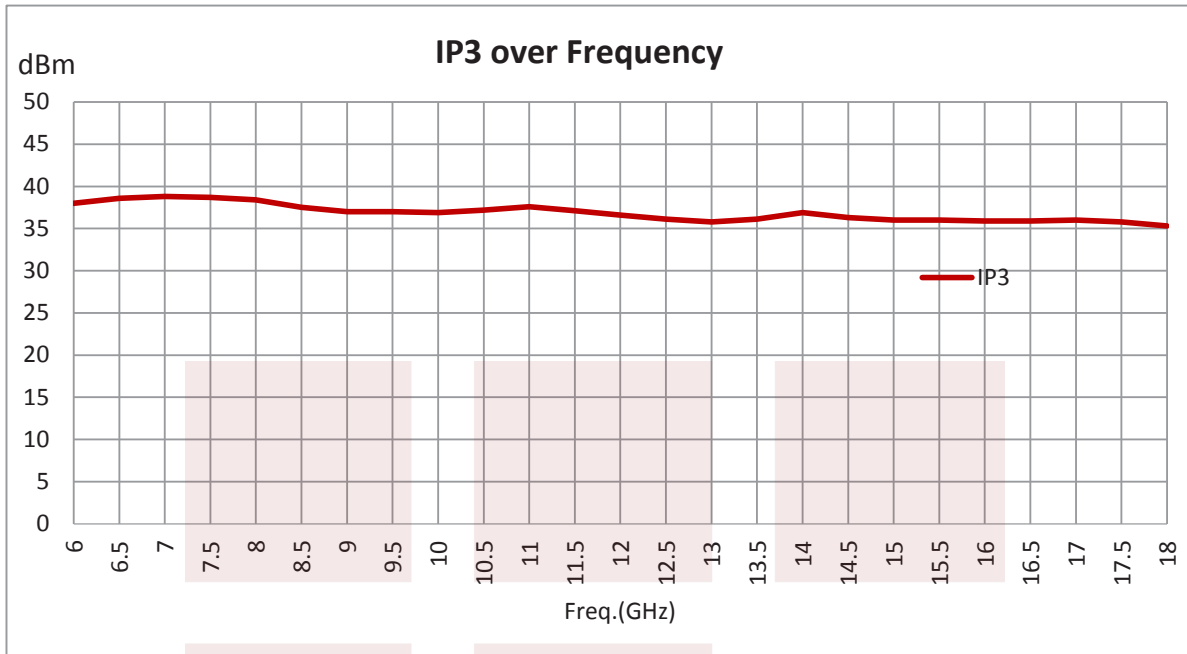
- Medium Power Amplifier
- Driver Amp
- Military Communications
- Broadband Communication
- Test & Measurement

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Typical Performance Data





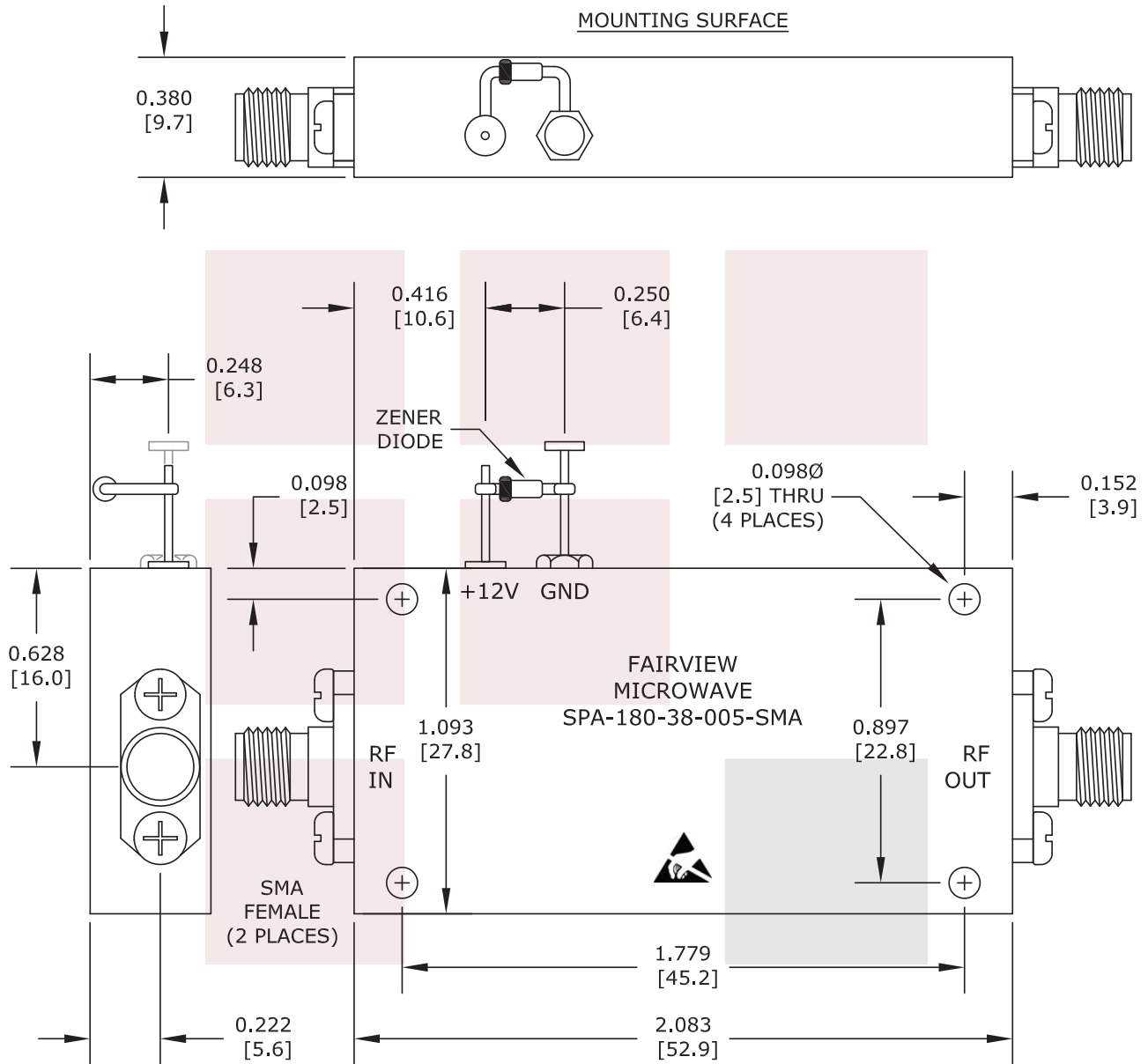


6 GHz to 18 GHz, Medium Power Broadband Amplifier with 500 mW, 42 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [6 GHz to 18 GHz, Medium Power Broadband Amplifier with 500 mW, 42 dB Gain and SMA SPA-180-38-005-SMA](http://www.fairviewmicrowave.com/6-18-ghz-medium-power-broadband-amplifier-spa-180-38-005-sma-p.aspx)

URL: <http://www.fairviewmicrowave.com/6-18-ghz-medium-power-broadband-amplifier-spa-180-38-005-sma-p.aspx>

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TITLE 6 GHz to 18 GHz, Medium Power Broadband Amplifier with 500 mW, 42 dB Gain and SMA		DWG NO SPA-180-38-005-SMA	CAGE CODE 3FKR5		
CAD FILE 120414	SHEET	SCALE N/A	SIZE A	2233	