

6 GHz to 18 GHz, Medium Power Broadband Amplifier with 600 mW, 30 dB Gain and SMA

SPA-180-30-006-SMA is a 28 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 +12 VDC power supply.

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 1,300mA)

Description	Min	Typ	Max	Unit
Frequency Range	6		18	GHz
Gain	30			dB
Gain Flatness		±1	±1.25	dB
P1dB	+28			dBm
Noise Figure		3.5	4	dB
Input VSWR		1.8:1	2:1	
Output VSWR		1.8:1	2:1	
Operating DC Voltage		12		Volts
Operating DC Current		1,300	1,400	mA
Operating Temperature Range (OTR)	-30		+60	°C

Configuration

- Connector 1 SMA Female
- Connector 2 SMA Female

Environmental Specifications
Temperature

- Operating Range -30 to +60 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:

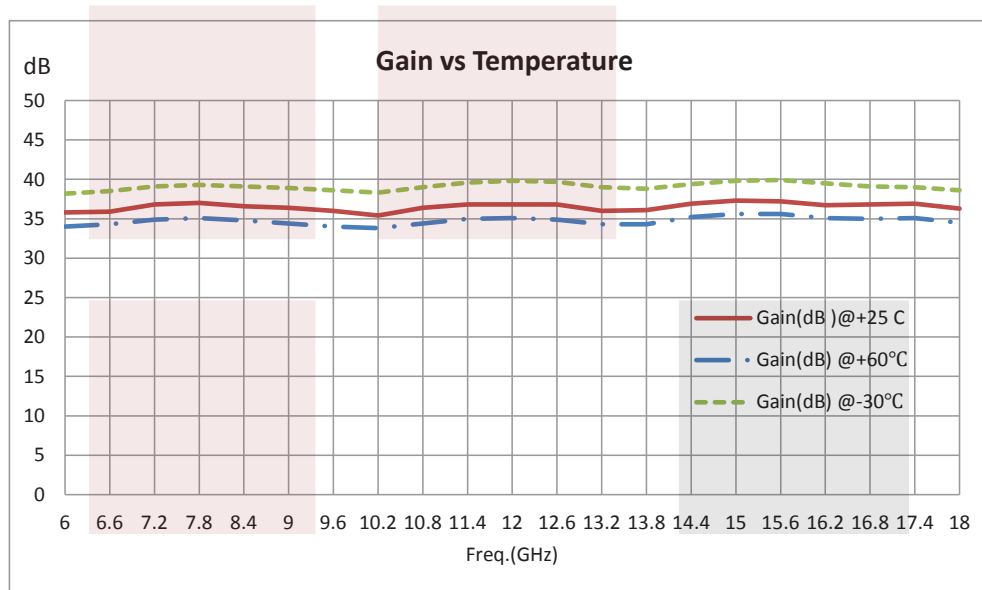
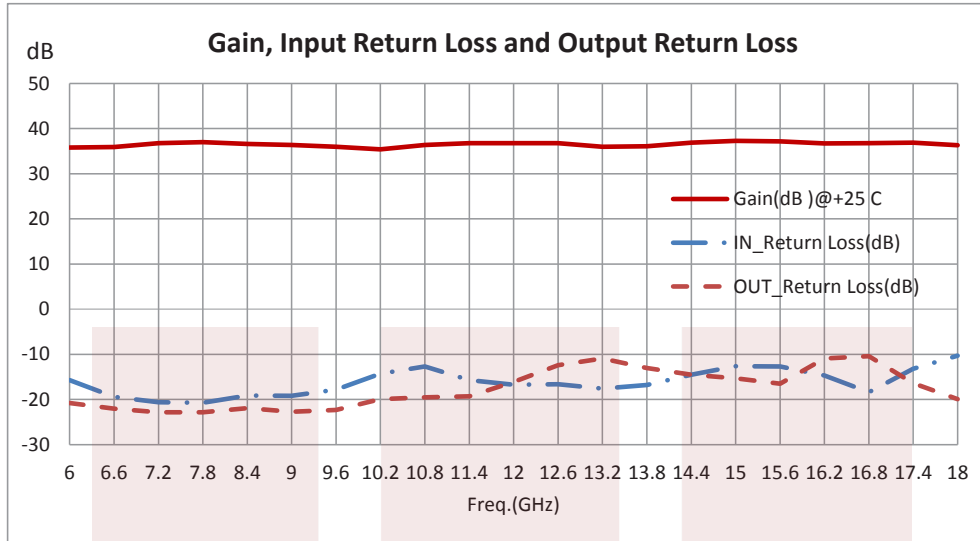
- 6 GHz to 18 GHz Frequency Range
- P1dB 28 dBm min.
- Noise figure 3.5 dB typ
- Gain 30 dB min.
- Gain Flatness +/-1.0 dB typ

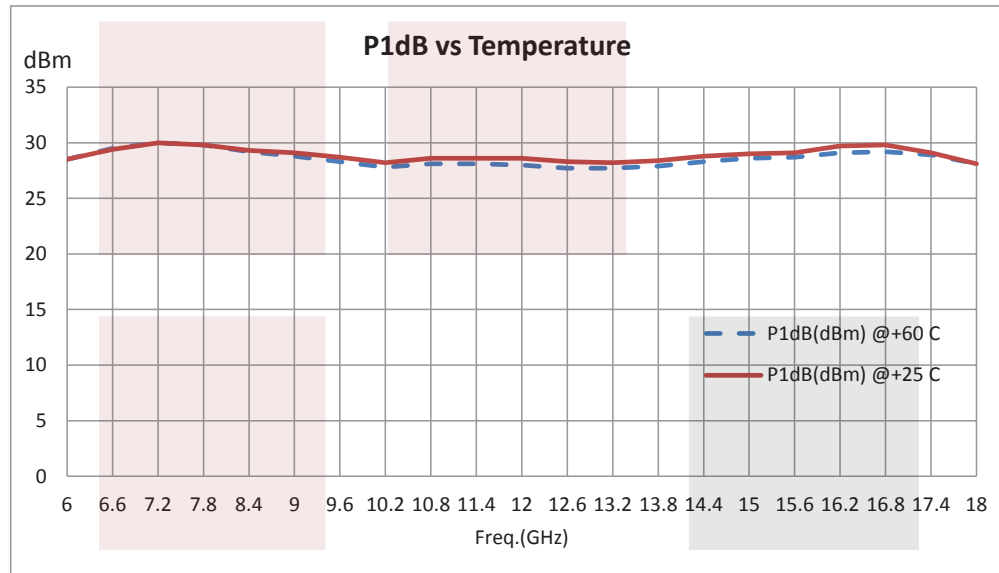
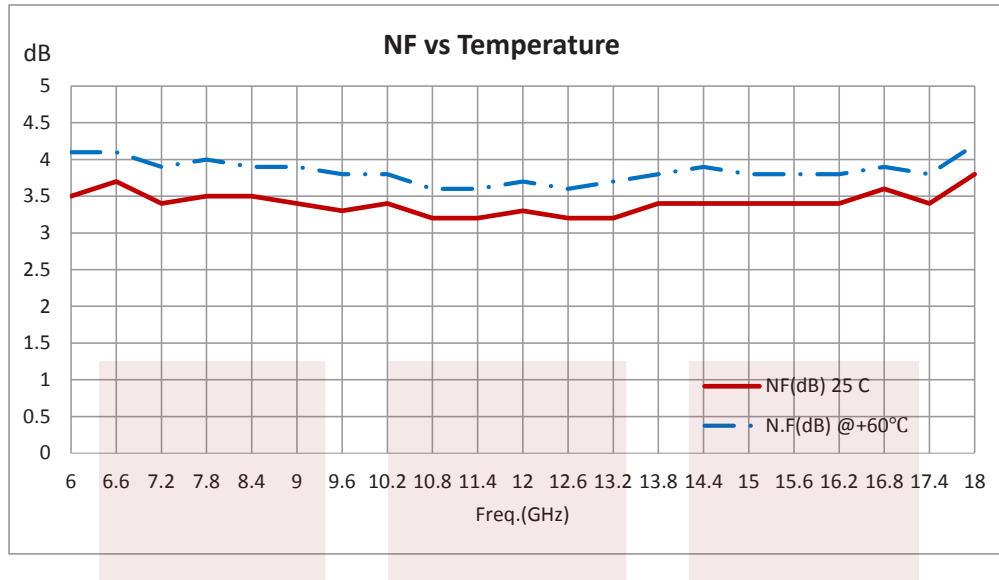
Applications:

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

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Typical Performance Data



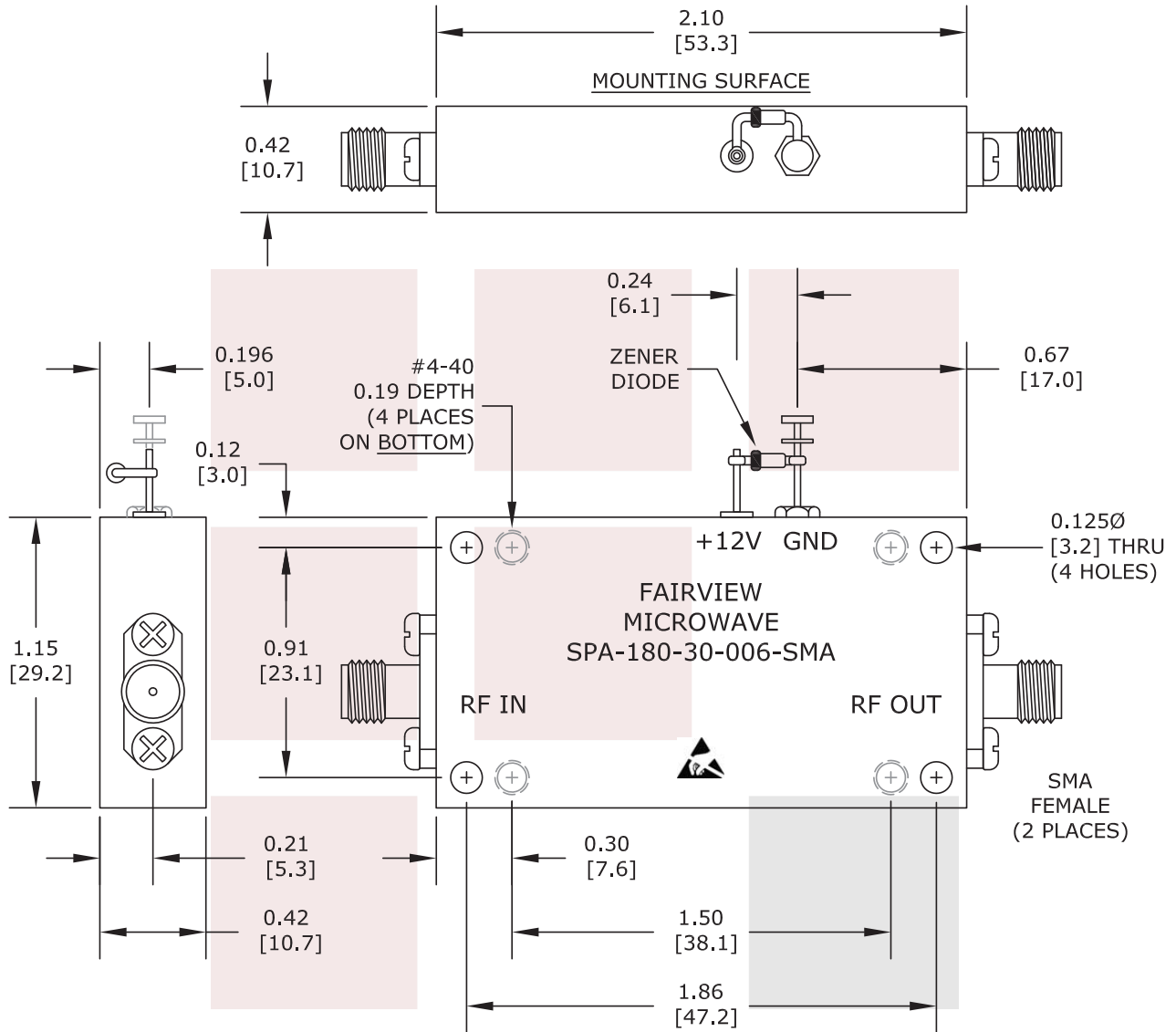


6 GHz to 18 GHz, Medium Power Broadband Amplifier with 600 mW, 30 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [6 GHz to 18 GHz, Medium Power Broadband Amplifier with 600 mW, 30 dB Gain and SMA SPA-180-30-006-SMA](http://www.fairviewmicrowave.com/6-18-ghz-medium-power-broadband-amplifier-spa-180-30-006-sma)

URL: <http://www.fairviewmicrowave.com/6-18-ghz-medium-power-broadband-amplifier-spa-180-30-006-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.



NOTE:
HEAT SINK REQUIRED FOR PROPER OPERATION,
UNIT IS COOLED BY CONDUCTING TO HEAT SINK.

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 6 GHz to 18 GHz, Medium Power Broadband Amplifier with 600 mW, 30 dB Gain and SMA		DWG NO SPA-180-30-006-SMA	CAGE CODE 3FKR5		
CAD FILE 111714	SHEET	SCALE N/A	SIZE A	2233	