PASTERNACK®
THE ENGINEER'S RF SOURCE



600 mW P1dB, 6 GHz to 18 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 3.5 dB NF, SMA

TECHNICAL DATA SHEET PE15A3018

The PE15A3018 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.

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

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	6		18	GHz
Gain	30			dB
Gain Flatness		±1	±1.25	dB
Output at 1 dB Compression Point	+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

Environmental Specifications

Temperature

Operating Range	-30 to +60 deg C
Shock	RTCA, DO-160C
Vibration	RTCA, DO-160C
Temperature Cycle	MIL-STD-883, METHOD 1010

Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 600 mW P1dB, 6 GHz to 18 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 3.5 dB NF, SMA PE15A3018

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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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.

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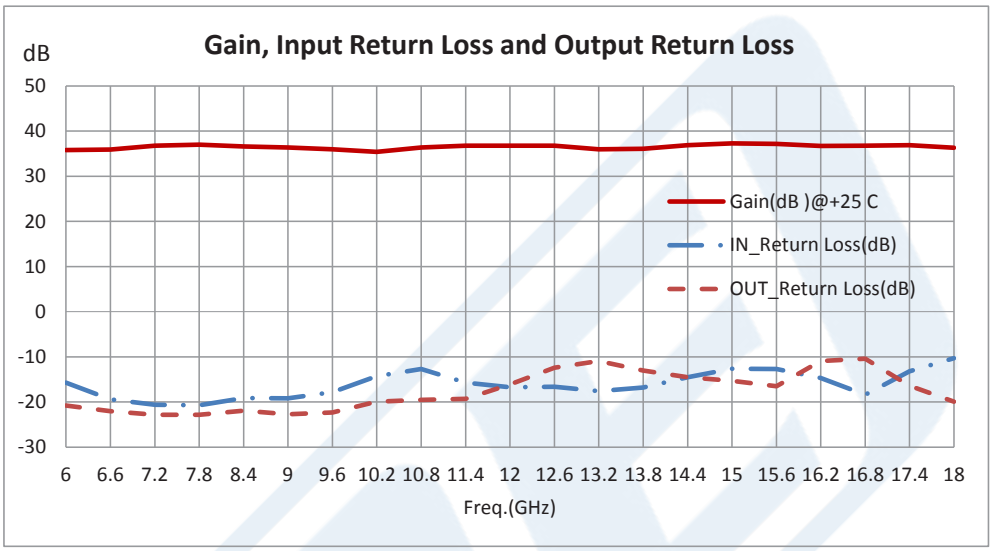
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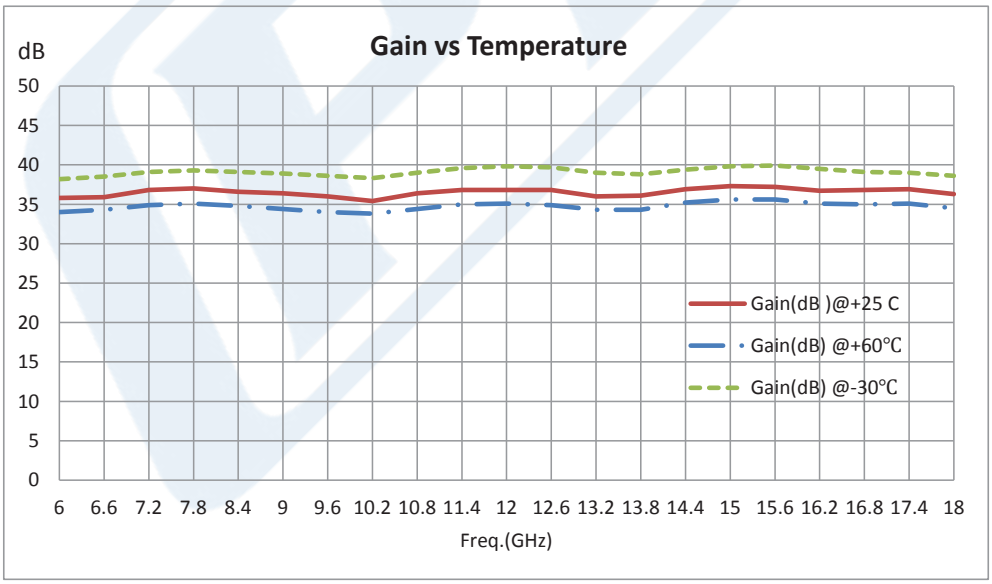


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Typical Performance Data





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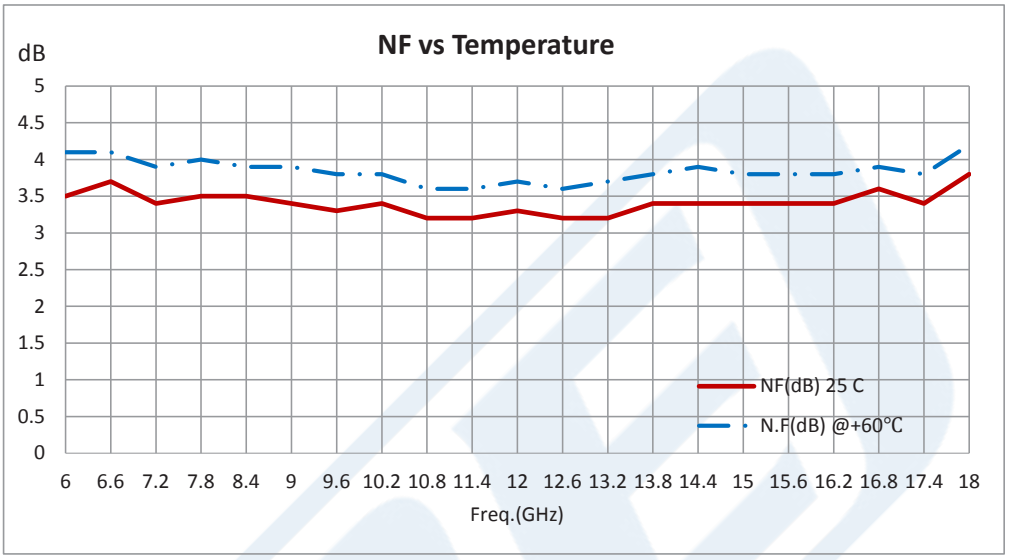
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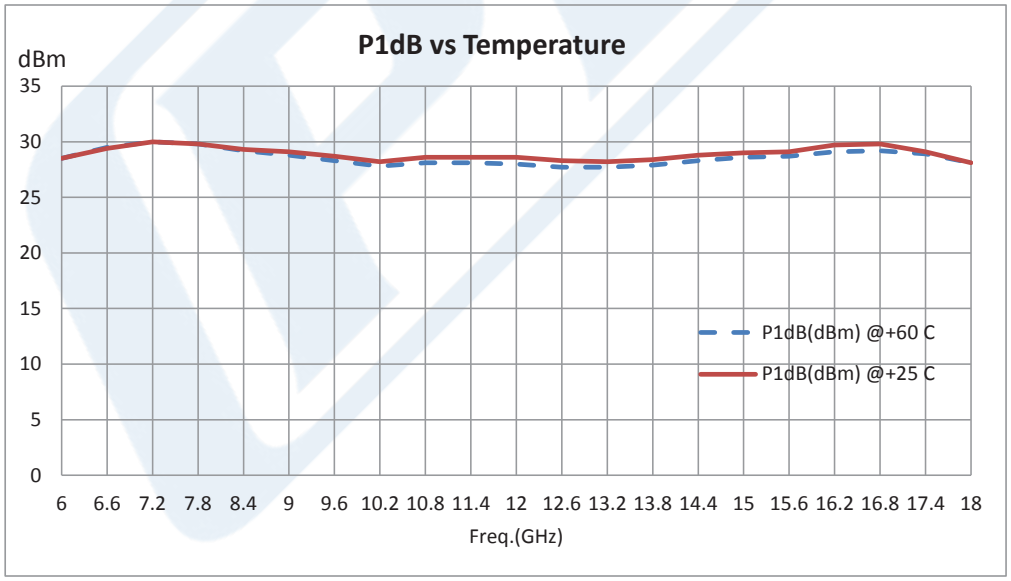
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600 mW P1dB, 6 GHz to 18 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 3.5 dB NF, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/18-ghz-medium-power-broadband-amplifier-30-db-gain-3.5-db-sma-pe15a3018-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

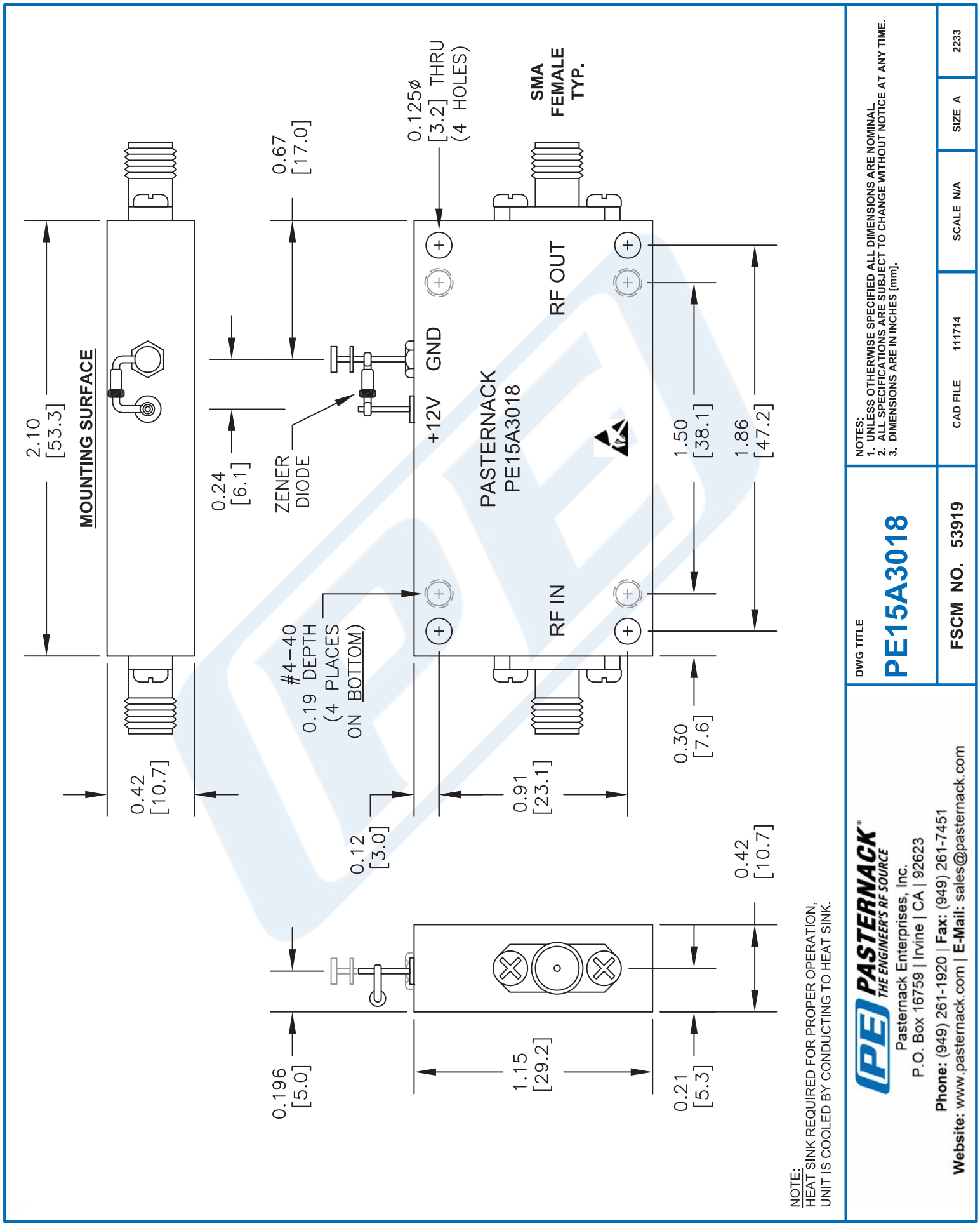
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PE15A3018 CAD Drawing

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