



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

Vibration

Temperature Cycle

RTCA, DO-160C

RTCA, DO-160C

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](#)



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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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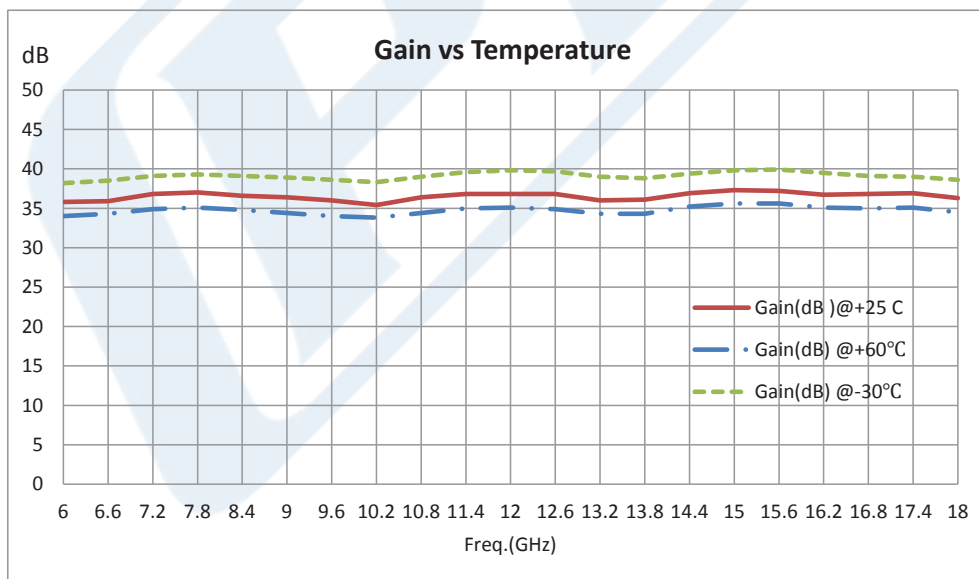
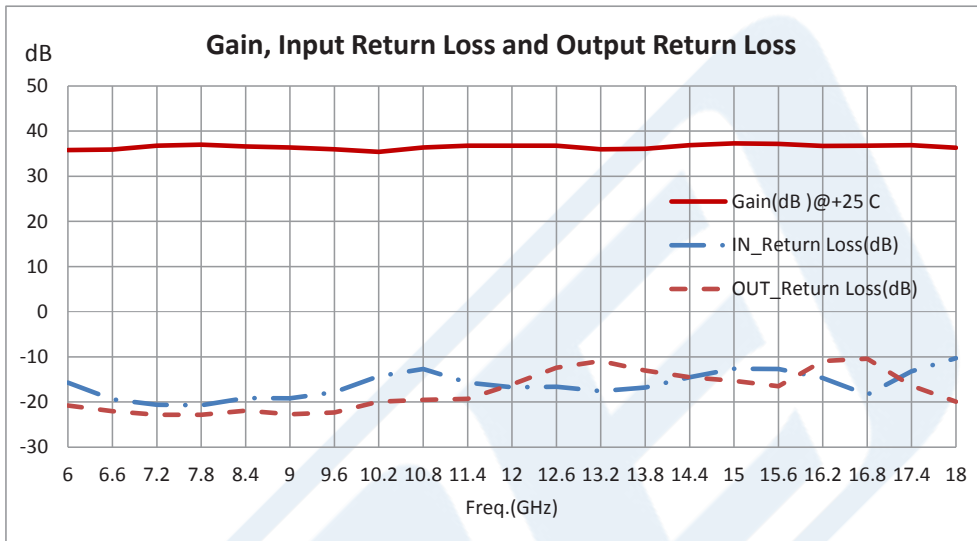


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Typical Performance Data



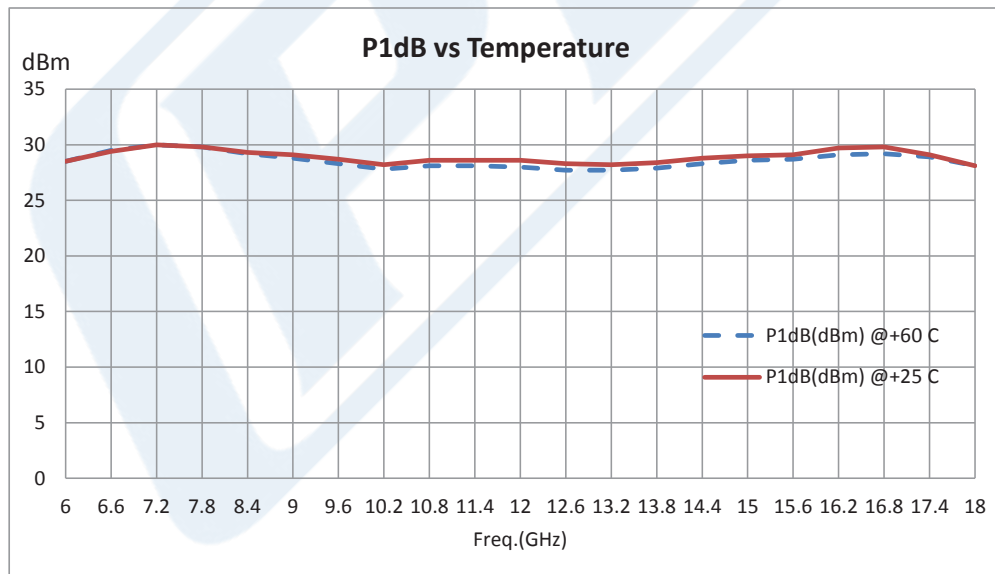
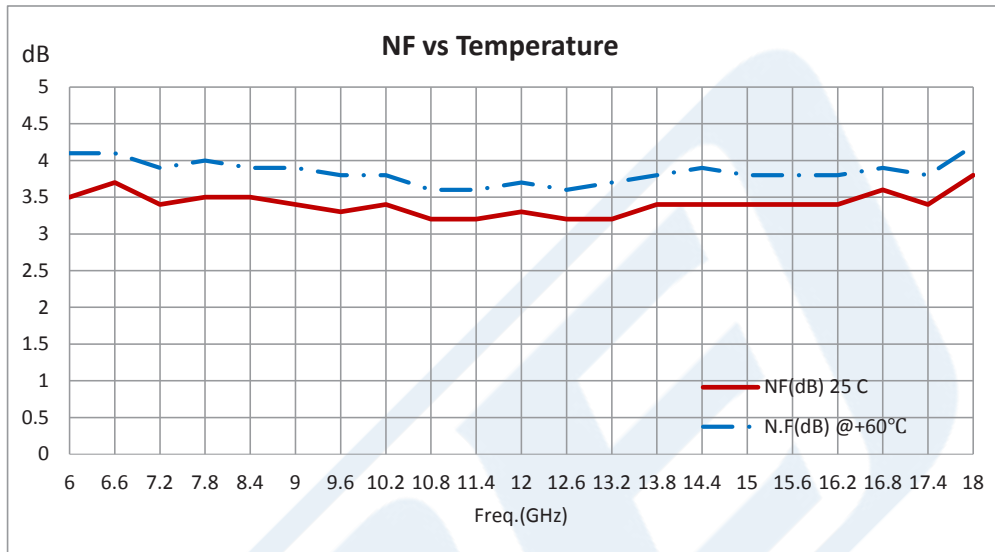
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600 mW P1dB, 6 GHz to 18 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 3.5 dB NF, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability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

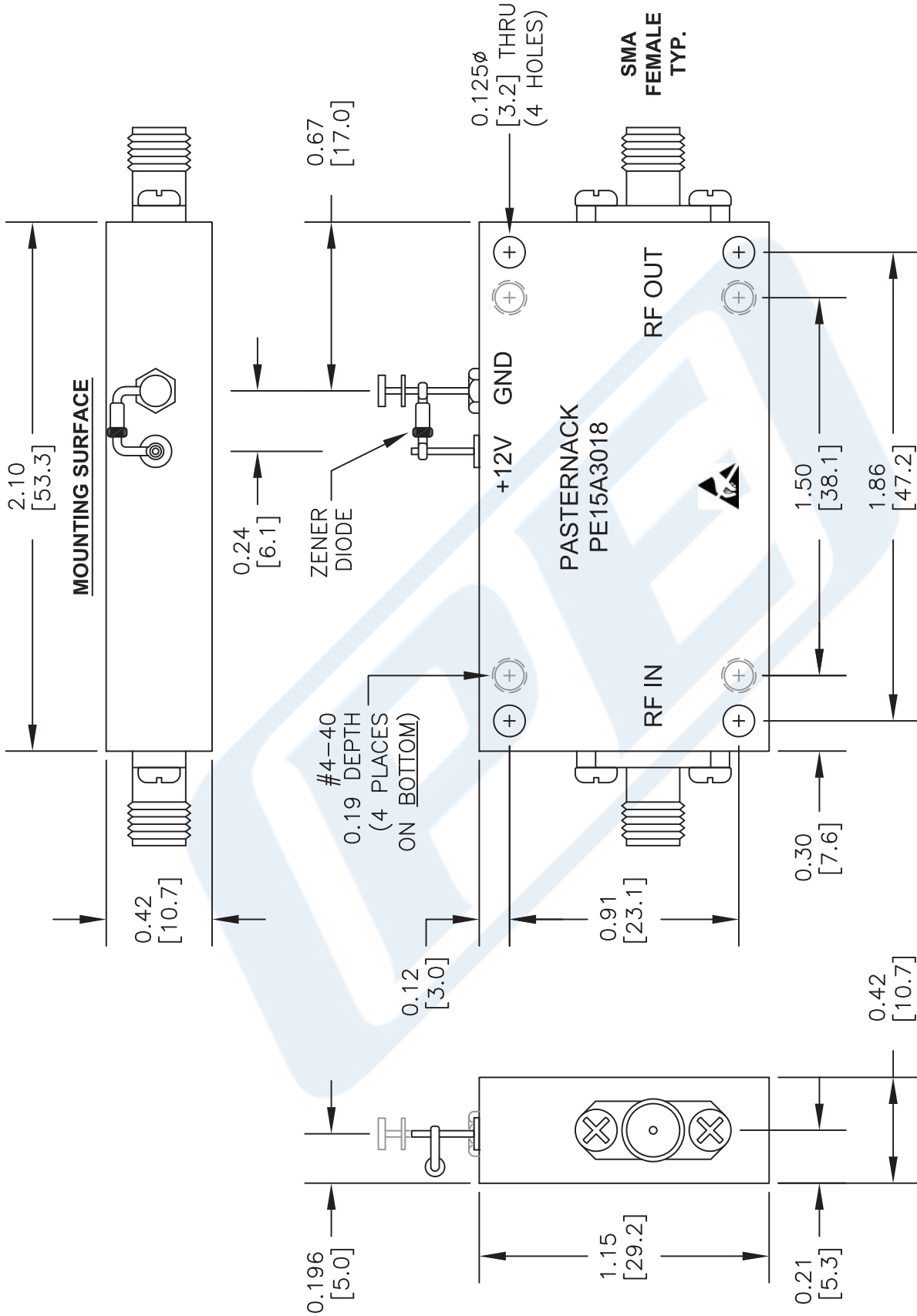
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE15A3018 CAD Drawing

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

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].

DWG TITLE
PE15A3018

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FSCM NO. 53919

CAD FILE 111714

SCALE N/A

SIZE A

2233