



900 mW P1dB, 2 GHz to 8 GHz, Medium Power  
Broadband Amplifier, 33 dB Gain, SMA

TECHNICAL DATA SHEET

PE15A3016

The PE15A3016 is a 30 dBm power amplifier designed for operation in the 2 GHz to 8 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 +8.5 VDC power supply.

**Features**

- 2 GHz to 8 GHz Frequency Range
- P1dB 29.4 dBm min.
- Gain 29 dB min.
- Gain Flatness +/-1.5 dB

**Applications**

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

**Electrical Specifications** (TA= 25°C, VDC1 = 8.5 Vdc)

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		8	GHz
Gain	29	33		dB
Gain Flatness		±1.5	±2	dB
Output at 1 dB Compression Point	+29.4			dBm
Input VSWR		1.5:1	2:1	
Output VSWR		1.5:1	2:1	
TTL Control	"0" - Off(0V) ; "1" - On(5V)			
Operating DC Voltage 1	8.45	8.5	8.6	Volts
Operating DC Current			941	mA
Operating Temperature Range (OTR)	-30		+70	°C

**Mechanical Specifications**

<b>Size</b>	
Length	2.15 in [54.61 mm]
Width	1.55 in [39.37 mm]
Height	0.36 in [9.14 mm]
Weight	0.147 lbs [66.68 g]
Input Connector	SMA Female
Output Connector	SMA Female

**Environmental Specifications**

**Temperature**

Operating Range	-30 to +70 deg C
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [900 mW P1dB, 2 GHz to 8 GHz, Medium Power Broadband Amplifier, 33 dB Gain, SMA PE15A3016](#)



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Shock  
Vibration  
Temperature Cycling

RTCA, DO-160C  
RTCA, DO-160C  
MIL-STD-883, METHOD 1010

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

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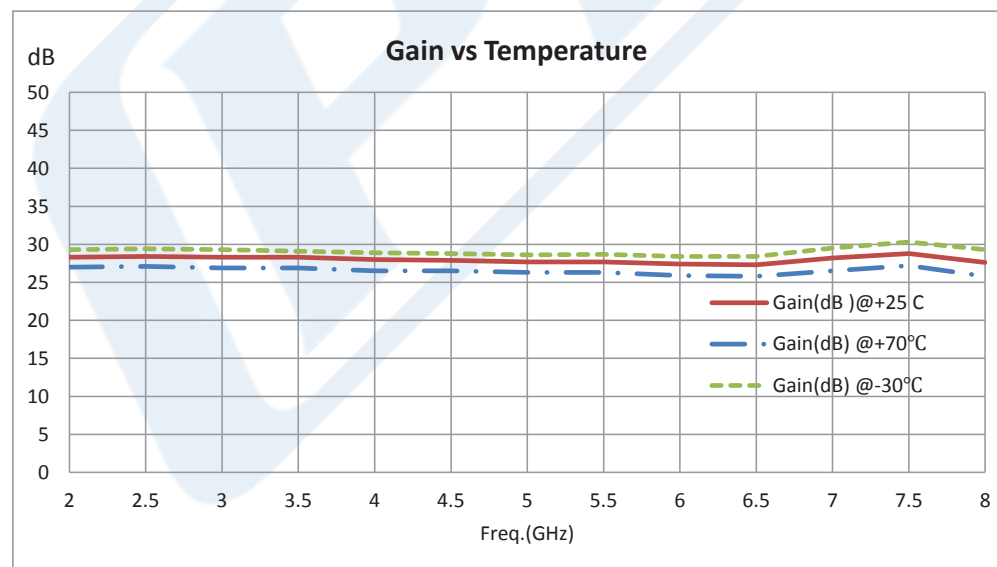
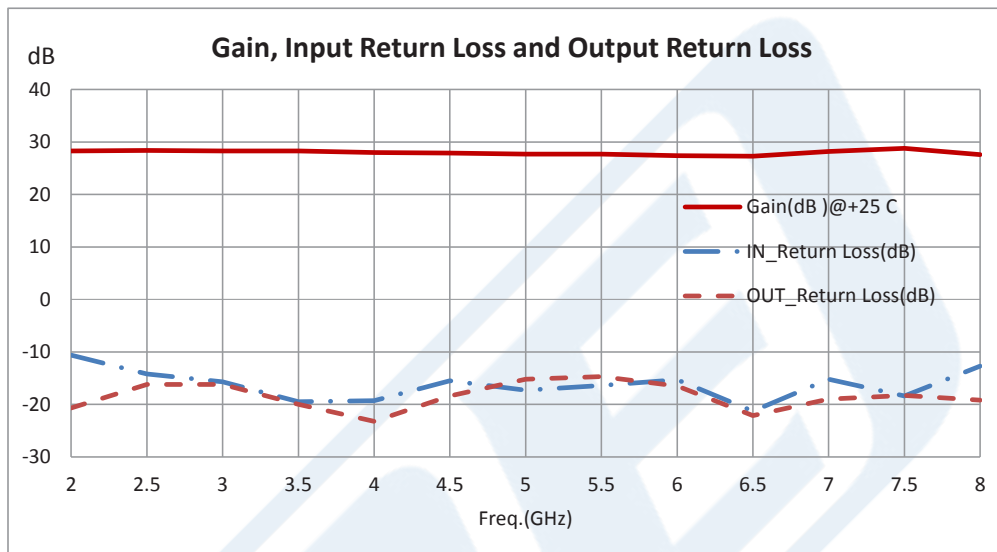


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### Typical Performance Data



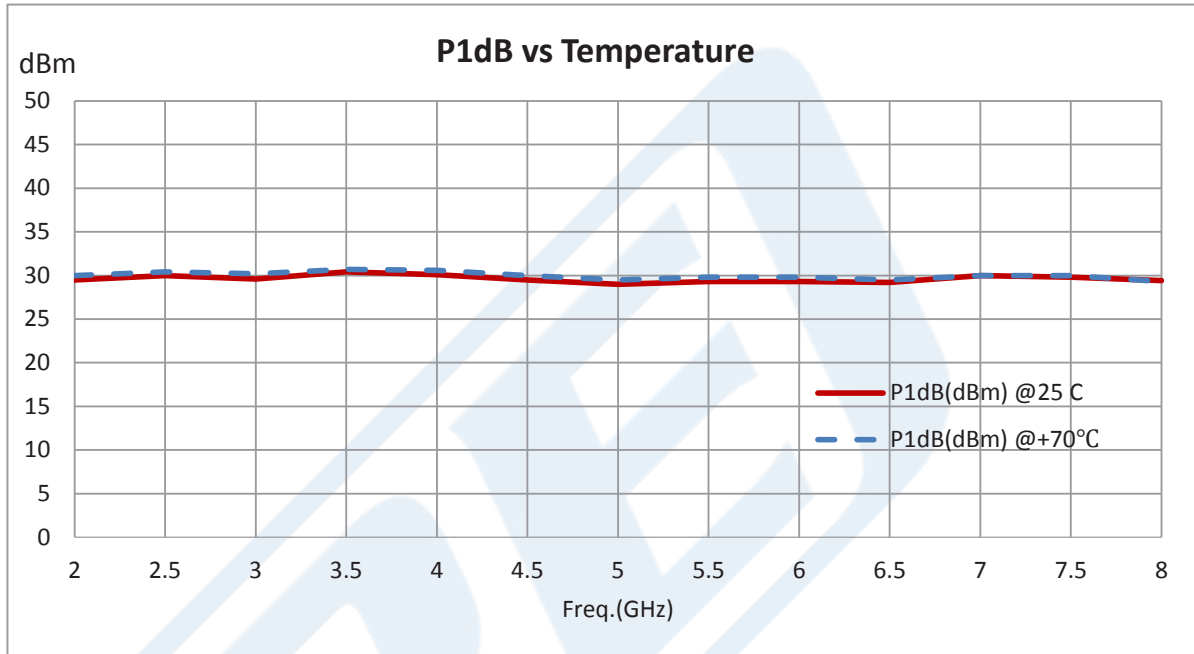
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900 mW P1dB, 2 GHz to 8 GHz, Medium Power Broadband Amplifier, 33 dB Gain, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

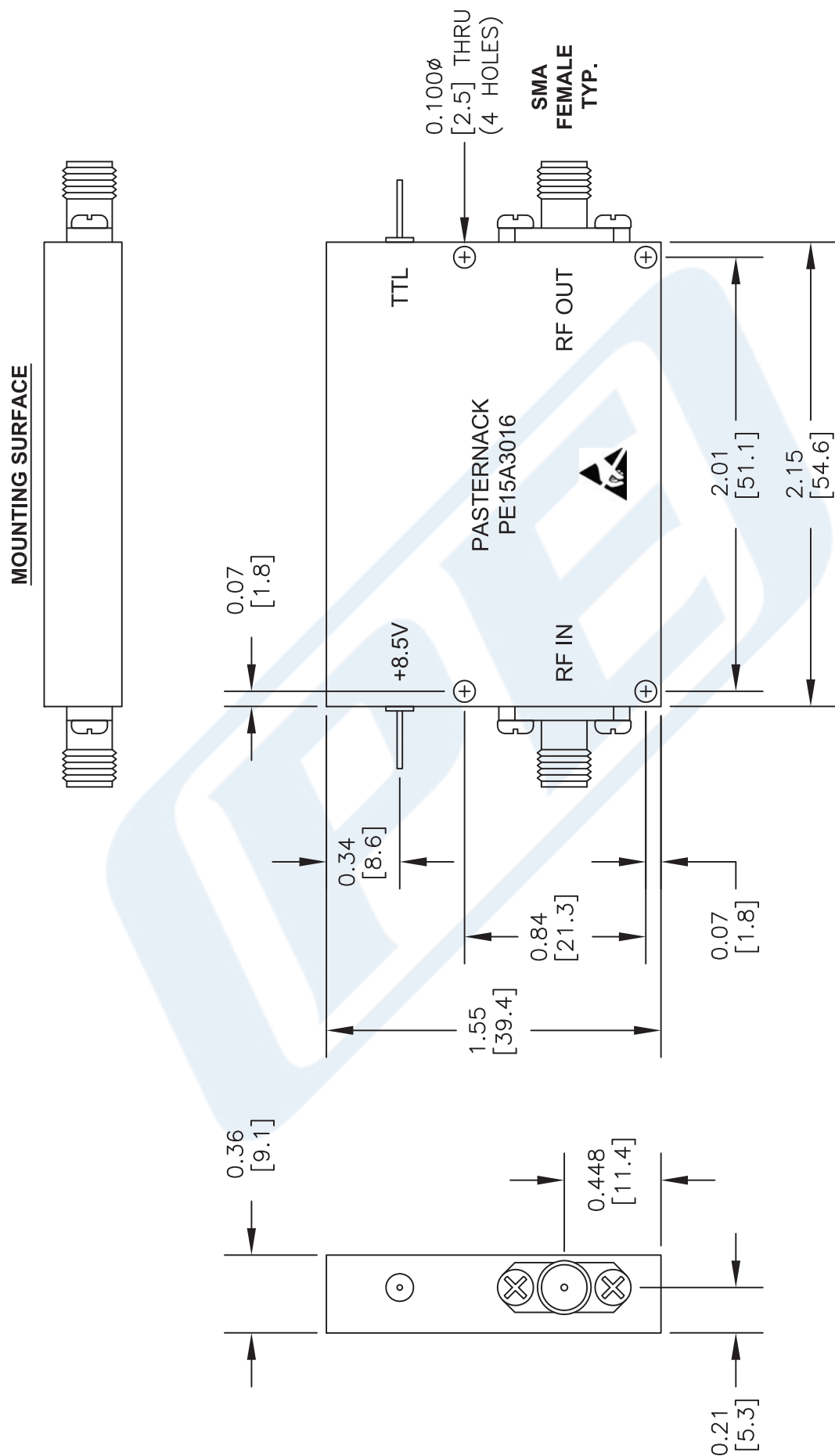
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

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**NOTES:**

- 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**

**PE15A3016**

FSCM NO. 53919

**CAD FILE**      **120414**

**SIZE A**

2233

2233



**PARNER**  
THE ENGINEER'S RF SOURCE

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