



2 Watt Psat, 500 MHz to 6 GHz, Medium Power Broadband Amplifier, 24 dB Gain, SMA

TECHNICAL DATA SHEET

PE15A4037

The PE15A4037 is a broadband coaxial power amplifier, operating in the 0.5 to 6 GHz frequency range. The amplifier offers 36 dBm of P1dB min and 28 dB small signal gain min, with the gain flatness of ± 2.0 dB max. This power amplifier requires only a single positive DC supply, is unconditionally stable, operates over the temperature range of -40°C to 75°C, and is Hermetically sealed.

Features

- 0.5 to 6 GHz Frequency Range
- P1dB: 36 dBm min
- Small Signal Gain: 28 dB min
- Gain Flatness: ± 2.0 dB max
- 50 Ohm Input and Output Matched
- -40 to +75°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

Applications

- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Military & Space
- Communication Systems
- Satellite Communications
- Wireless Communications
- Unmanned Systems
- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification
- RF Front Ends

Electrical Specifications (TA= 25°C, VDC1 = 28 Vdc)

| Description | Minimum | Typical | Maximum | Units |
|-----------------------------------|---------|---------|---------|-------|
| Frequency Range | 0.5 | | 6 | GHz |
| Gain | 24 | | | dB |
| Output at 1 dB Compression Point | | +33 | | dBm |
| Saturation Output Power | +33 | | | dBm |
| Input VSWR | | 2:1 | | |
| Output VSWR | | 2:1 | | |
| Operating DC Voltage 1 | 27 | 28 | 29 | Volts |
| Operating DC Current | | 600 | | mA |
| Quiescent Current | | 300 | | mA |
| Operating Temperature Range (OTR) | -40 | | +75 | °C |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 Watt Psat, 500 MHz to 6 GHz, Medium Power Broadband Amplifier, 24 dB Gain, SMA PE15A4037](#)



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Performance by Frequency

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|-------|
| Frequency Range | 0.5 | | 6 | GHz |
| Gain | | | | |
| Frequency = 0.5-2 GHz | 25 | 28 | | dB |
| Frequency = 2-6 GHz | 24 | 26 | | |
| Saturation Output Power | | | | |
| Frequency = 0.5-2 GHz | +35 | +36 | | dBm |
| Frequency = 2-6 GHz | +32.5 | +34 | | |

Absolute Maximum Rating

| Parameter | Rating | Units |
|------------------------------------|------------|-------|
| Source Voltage | +30 | Volts |
| RF input Power | +20 | dBm |
| Operating Temperature (base-plate) | -40 to +75 | °C |
| Storage Temperature | -55 to +85 | °C |



ESD Sensitive Material,
Transport material in
Approved ESD bags.
Handle only in approved
ESD Workstation.

Mechanical Specifications

| Size | |
|------------------|----------------------|
| Length | 2.4 in [60.96 mm] |
| Width | 2.1 in [53.34 mm] |
| Height | 0.5 in [12.7 mm] |
| Weight | 0.249 lbs [112.94 g] |
| Input Connector | SMA Female |
| Output Connector | SMA Female |

Environmental Specifications

| Temperature | |
|-----------------|------------------|
| Operating Range | -40 to +75 deg C |

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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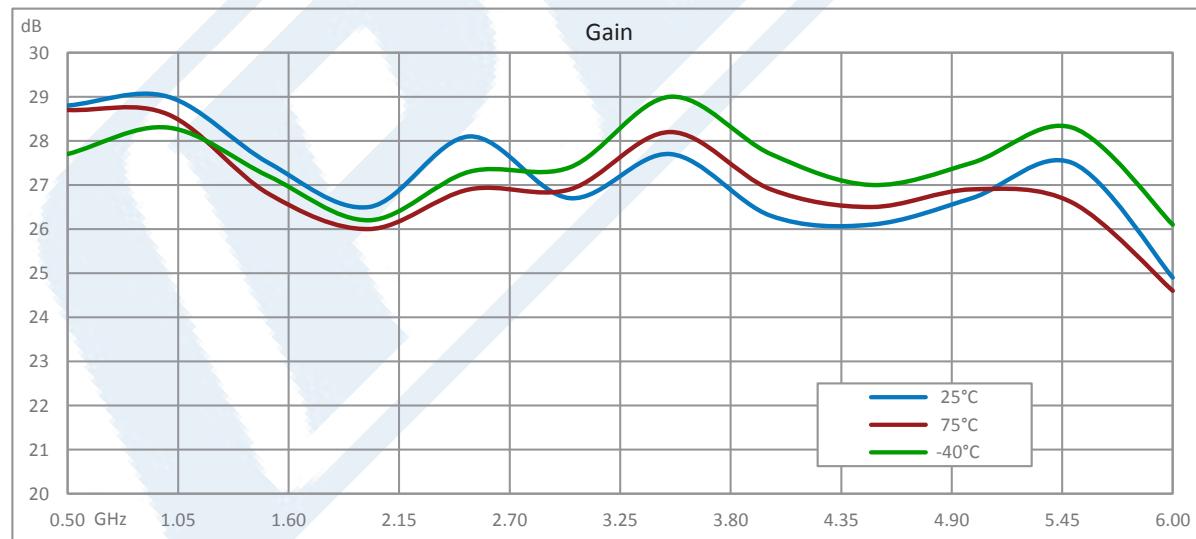
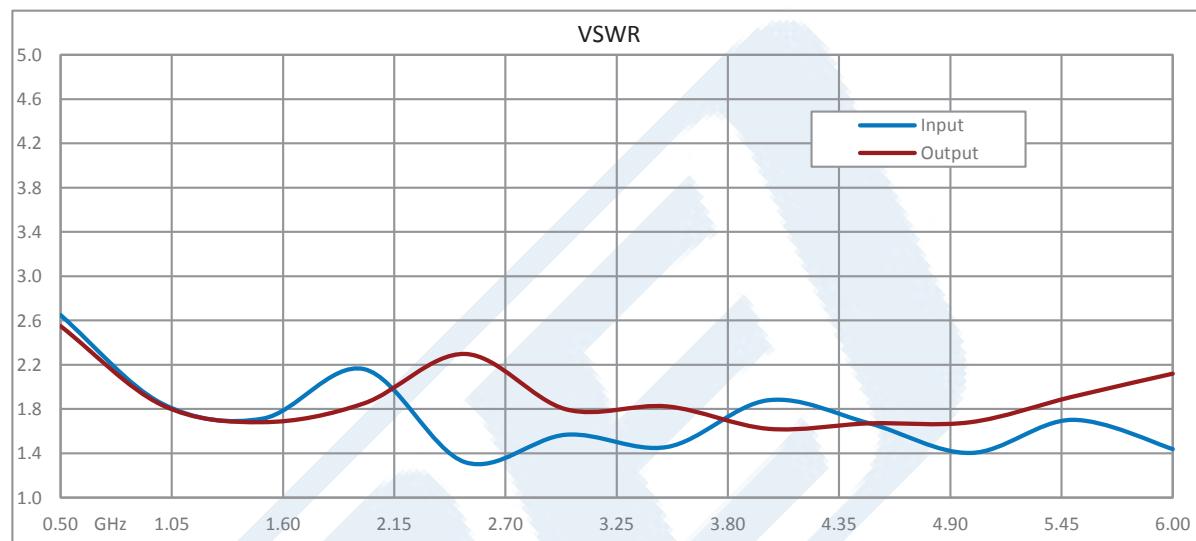


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Typical Performance Data



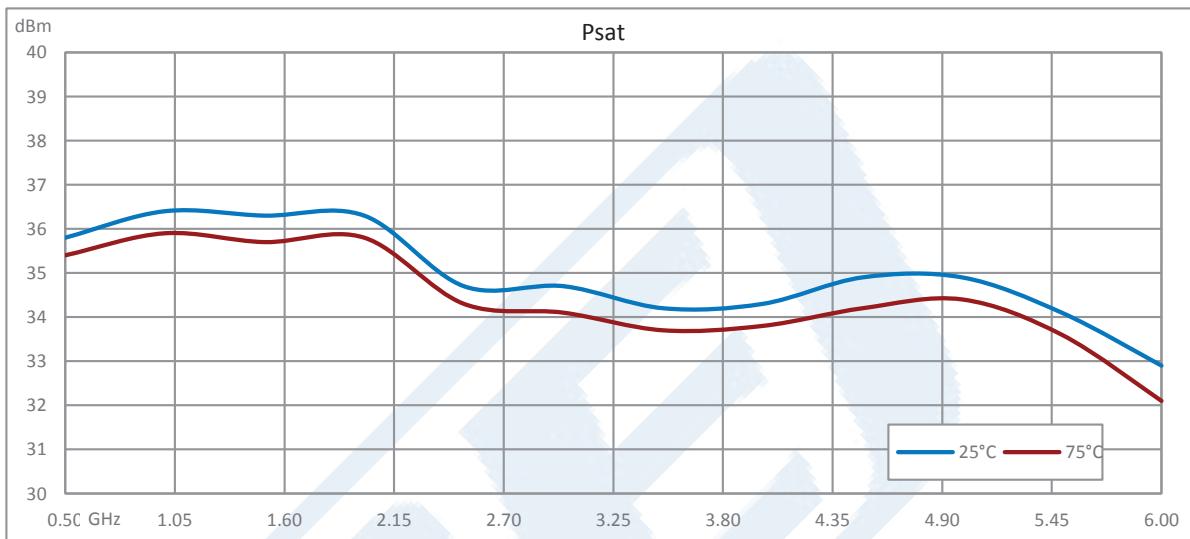
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2 Watt Psat, 500 MHz to 6 GHz, Medium Power Broadband Amplifier, 24 dB Gain, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

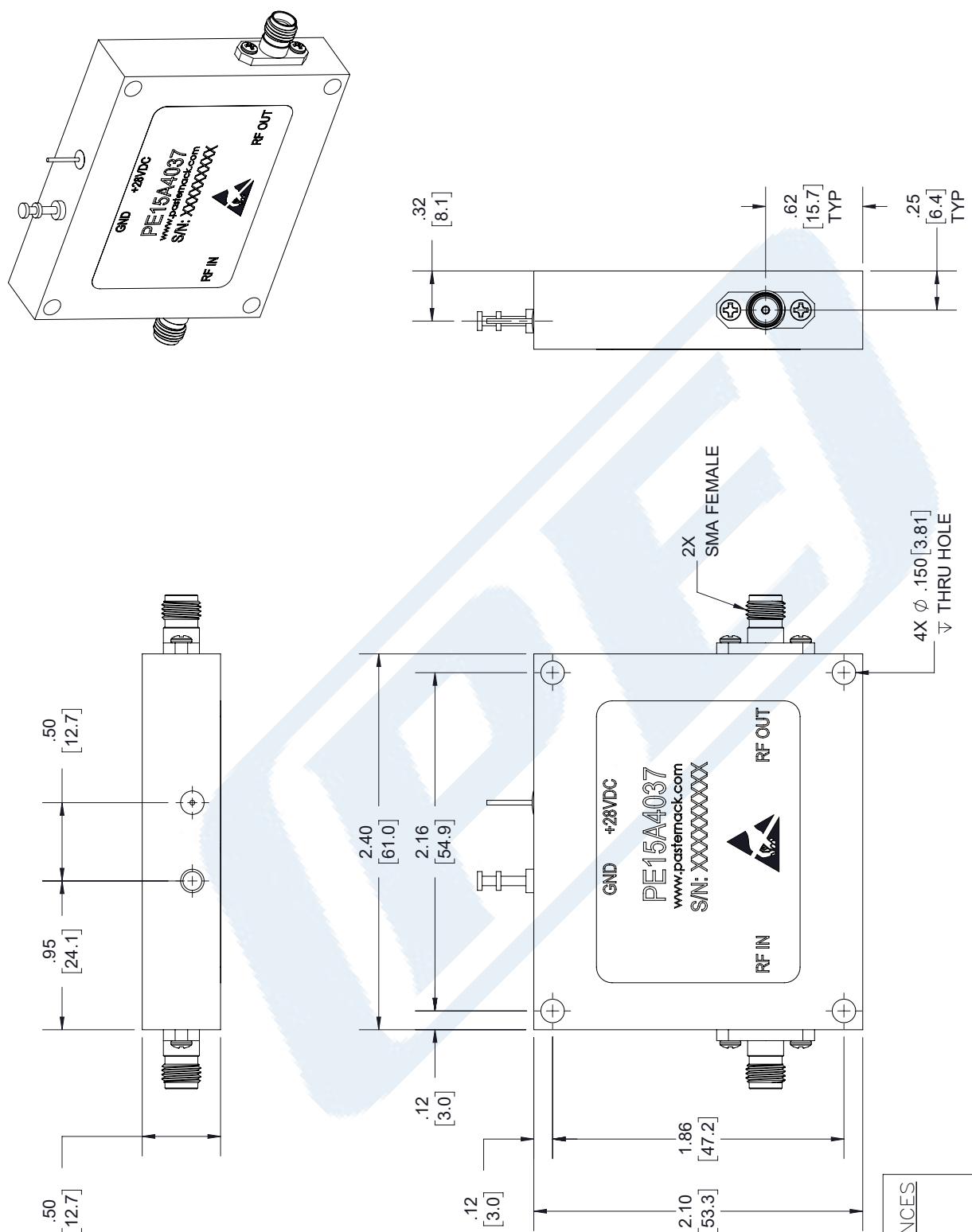
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE15A4037 CAD Drawing

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STANDARD TOLERANCES
 X ± 0.2
 XX ± 0.01
 XXX ± 0.005

*STANDARD TOLERANCES APPLY
 ONLY TO DIMENSIONS IN INCHES

PE PASTERNACK
 THE ENGINEER'S RESOURCE

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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 | CAGE CODE | CAD FILE | SCALE | SIZE |
|-----------|-----------|----------|-------|------|
| PE15A4037 | 53919 | 08/23/18 | N/A | A |

7361

单击下面可查看定价, 库存, 交付和生命周期等信息

[**>>PASTERNACK**](#)