



37 dBm IP3, 1.5 dB NF, Linear Amplifier, 23 dBm P1dB, 50 MHz to 1,000 MHz, 15 dB Gain, SMA

TECHNICAL DATA SHEET

PE15A9001

The PE15A9001 is a High OIP3 Amplifier operating in the 50 MHz to 1000 MHz Frequency Range. The coaxial amplifier is unconditionally stable and can operate from 5 VDC to 12 VDC. The amplifier has OIP3 of 37 dBm typical and has a Gain of 15 dB typical.

Features

- 50 MHz to 1000 MHz Frequency Range
- Noise Figure 1.5 dB typ
- Gain 15 dB typ
- Gain Flatness +/- 0.7 dB typ
- OIP3 37 dBm typ

Applications

- Low Noise Amp
- Cellular Communicaitons
- GSM
- UMTS
- Wireless Data
- RFID

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 85mA)

Description	Minimum	Typical	Maximum	Units
Frequency Range	50		1,000	MHz
Small Signal Gain	14.5	15		dB
Gain Flatness		±0.7		dB
Output at 1 dB Compression Point		+23		dBm
Output 3rd Intercept Point		+37		dBm
Noise Figure		1.5		dB
Input VSWR		1.45:1		
Output VSWR		1.45:1		
Operating DC Voltage	5		12	Volts
Operating DC Current		85		mA

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

RoHS Compliant

Plotted and Other Data

Notes:

- Values at +25 °C, sea level

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [37 dBm IP3, 1.5 dB NF, Linear Amplifier, 23 dBm P1dB, 50 MHz to 1,000 MHz, 15 dB Gain, SMA PE15A9001](#)

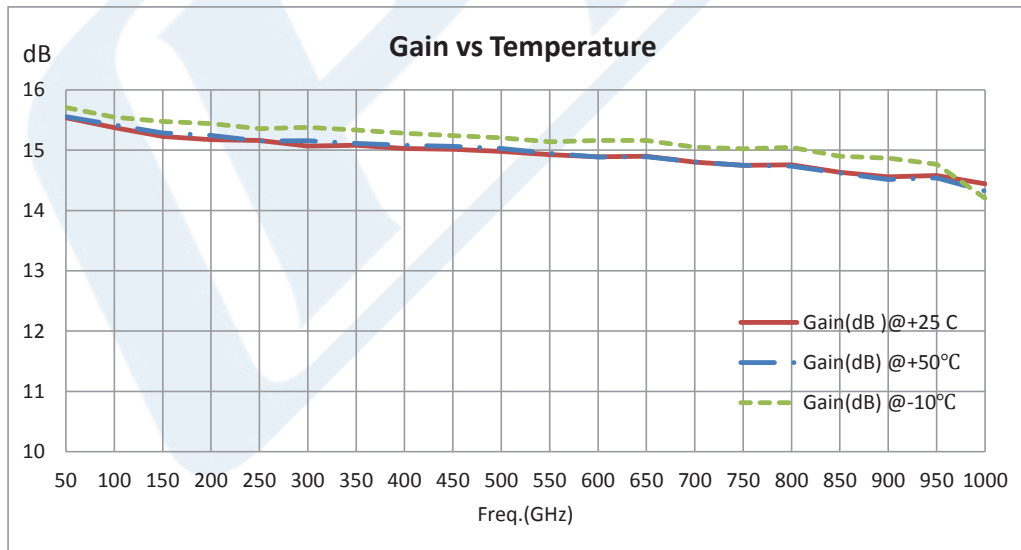
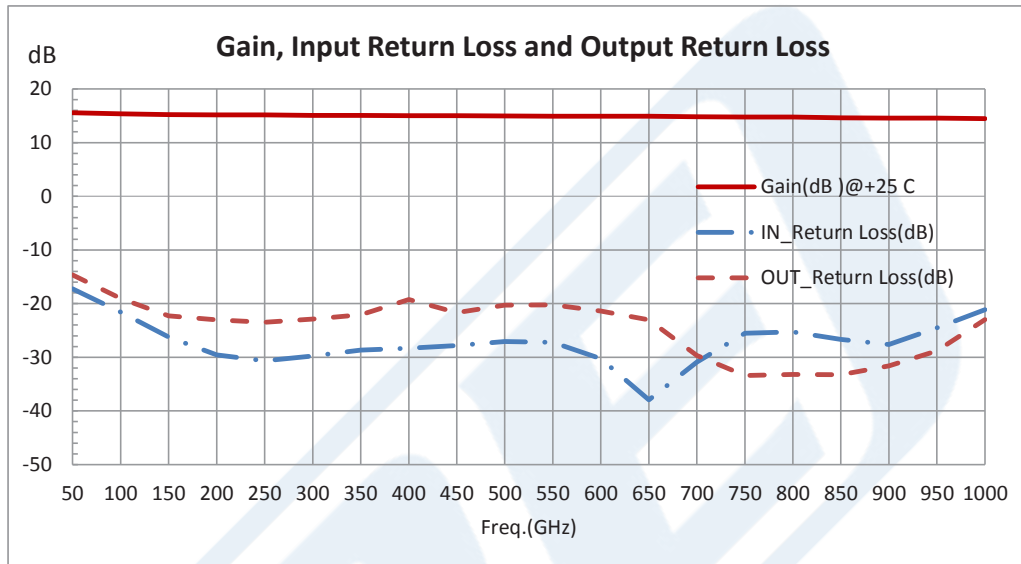


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Typical Performance Data



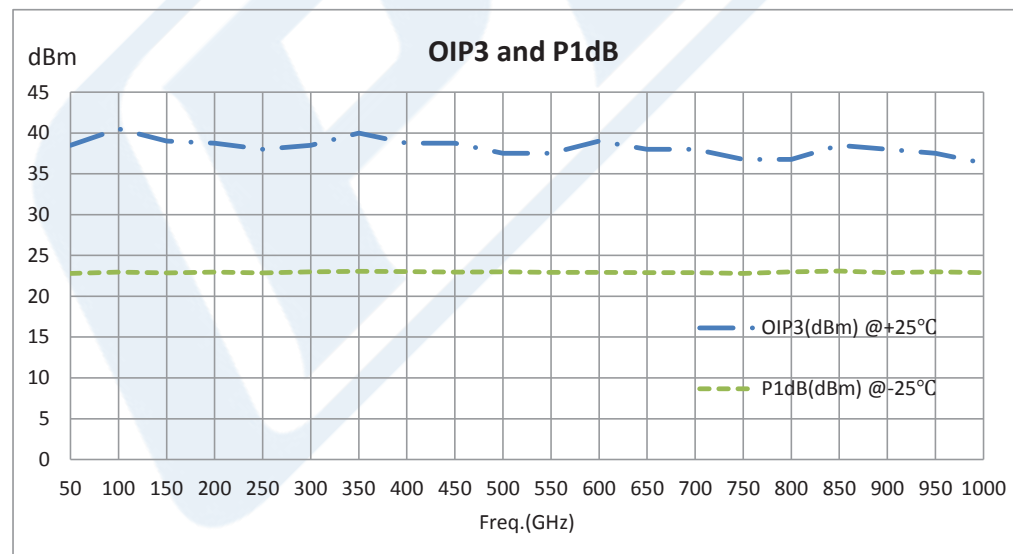
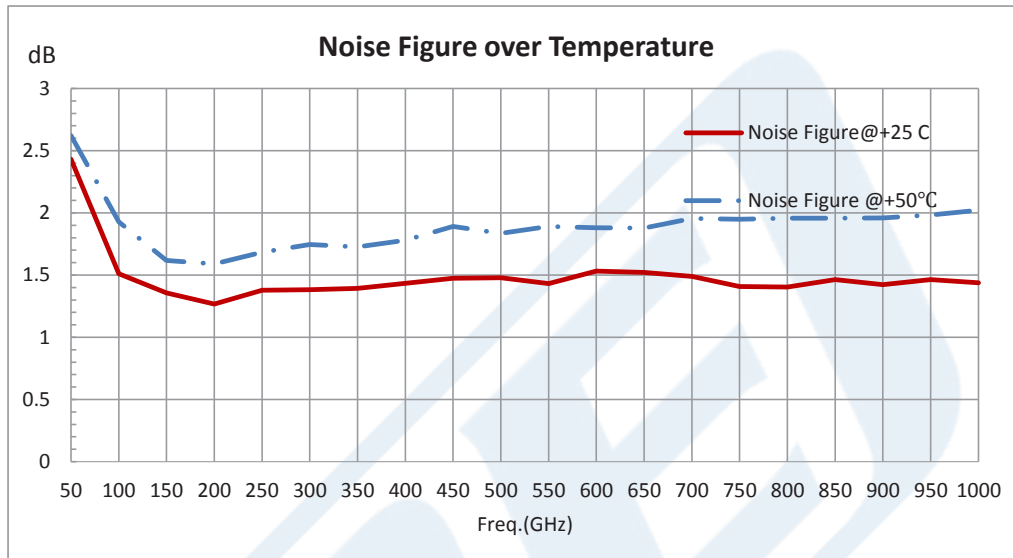
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P1dB, 50 MHz to 1,000 MHz, 15 dB Gain, SMA

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37 dBm IP3, 1.5 dB NF, Linear Amplifier, 23 dBm P1dB, 50 MHz to 1,000 MHz, 15 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% availability and are part of the broadest selection in the industry.

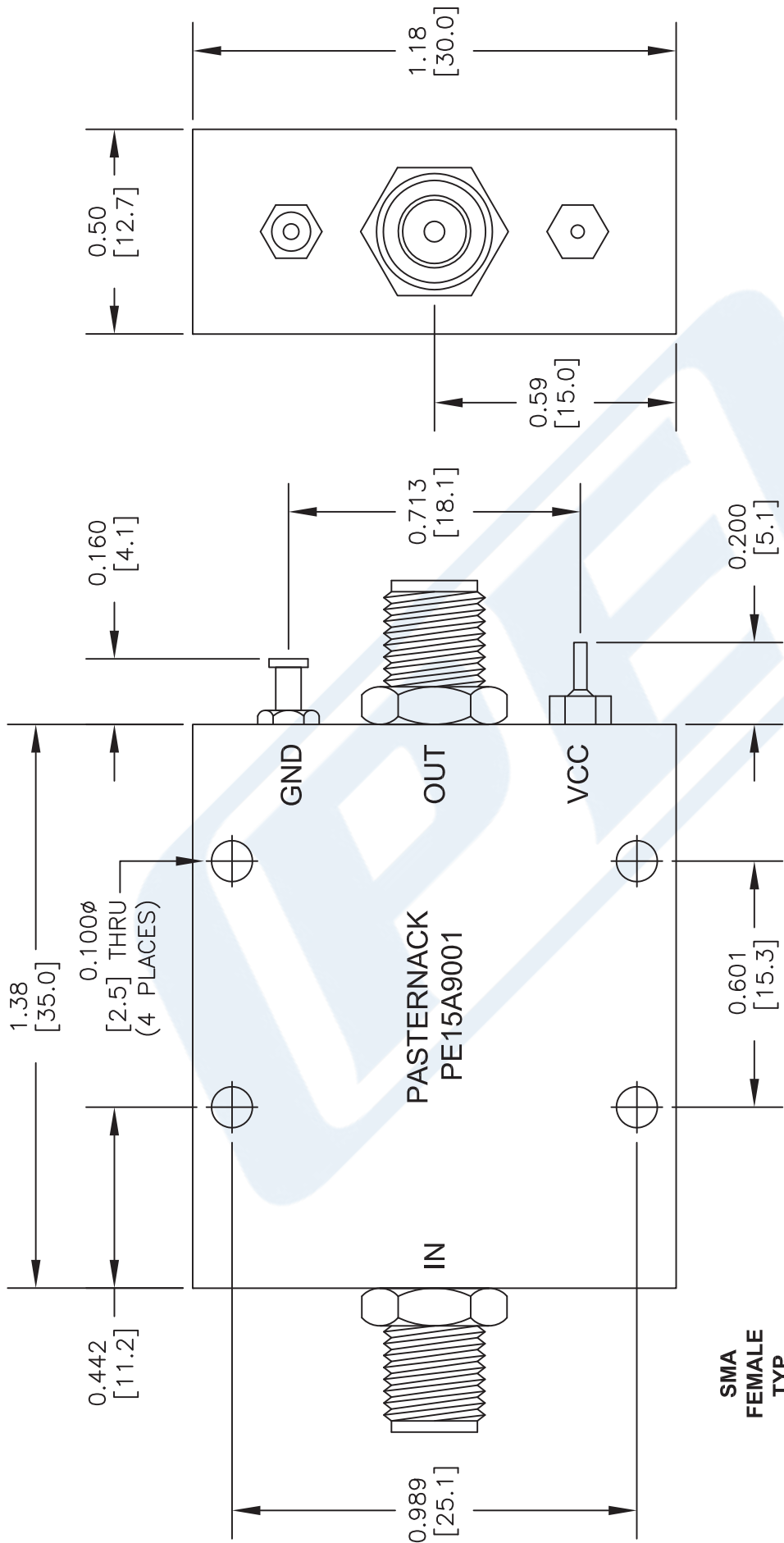
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URL: <http://www.pasternack.com/37-dbm-ip3-1.5-db-linear-amplifier-1000-mhz-15db-gain-sma-pe15a9001-p.aspx>

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.

PE15A9001 CAD Drawing

37 dBm IP3, 1.5 dB NF, Linear Amplifier, 23 dBm P1dB,
50 MHz to 1,000 MHz, 15 dB Gain, SMA



DWG TITLE

PE15A9001

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].

FSCM NO. 53919

CAD FILE 013015

SCALE N/A

SIZE A

150

PE PASTERNAK
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com