



PE15A3292

# 2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA

## **TECHNICAL DATA SHEET**

The PE15A3292 is a broadband coaxial low noise amplifier, operating in the 6 to 12 GHz frequency range. The amplifier offers 7 dBm of P1dB min and 17 dB small signal gain min, and a Noise Figure of 2.5 dB. This low noise amplifier requires only a single positive DC supply, in unconditionally stable, operates over the temperature range of -40°C to 80°C, and is Hermetically sealed.

### Features

- 6 to 12 GHz Frequency Range
- P1dB: 7 dBm min
- Small Signal Gain: 17 dB min
- Noise Figure: 2.5 dB typ
- 50 Ohm Input and Output Matched

### Applications

- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Military & Space

#### Communication Systems

- Satellite Communications
- Wireless Communications
- Unmanned Systems

Unconditionally StableSingle DC Positive Supply

-40 to +80°C Operating Temperature

- Built-in DC Voltage Regulator
  - Microwave Radio Systems
  - Low Noise Amplifier
  - General Purpose Amplification
  - RF Front Ends

## Electrical Specifications (TA= 25°C, VDC1 = 12 Vdc)

Description	Minimum	Typical	Maximum	Units
Frequency Range	6		12	GHz
Gain	17			dB
Output at 1 dB Compression Point	+7			dBm
Noise Figure		2.5		dB
Input VSWR			2:1	
Output VSWR			1:1	
Operating DC Voltage 1	11	12	13	Volts
Operating DC Current		100		mA
Operating Temperature Range (OTR)	-40		+80	°C

### **Mechanical Specifications**

1.083 in [27.51 mm]		
1.093 in [27.76 mm]		
0.382 in [9.7 mm]		
0.068 lbs [30.84 g]		
SMA Female		
SMA Female		

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA PE15A3292

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

Sales@Pasternack.com • Techsupport@Pasternack.com

1



Personal and the second second

PE15A3292

# 2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA

## **TECHNICAL DATA SHEET**

## **Environmental Specifications**

**Temperature** Operating Range

-40 to +80 deg C

Compliance Certifications (see product page for current document)

### Plotted and Other Data

- Notes:
- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA PE15A3292

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





2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA

## **TECHNICAL DATA SHEET**

# PE15A3292



Typical Performance Data

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA PE15A3292

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

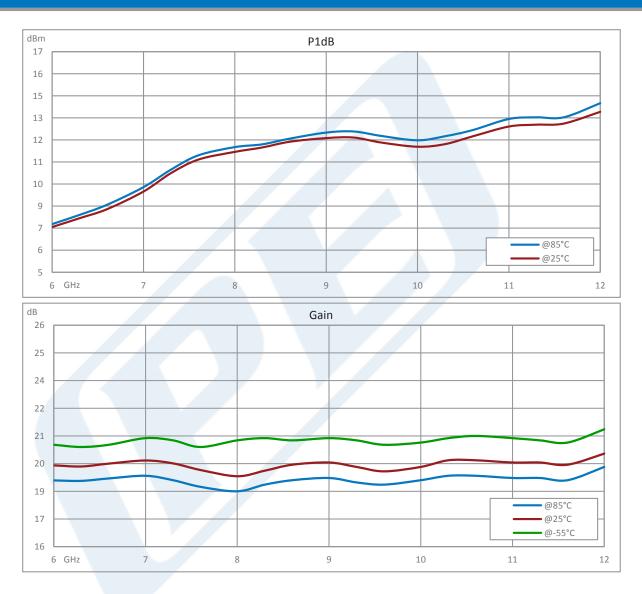




2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA

## **TECHNICAL DATA SHEET**

# PE15A3292



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA PE15A3292

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





# 2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA

## **TECHNICAL DATA SHEET**

# PE15A3292

2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 17 dB Gain, SMA PE15A3292

URL: https://www.pasternack.com/2.5-db-12-ghz-low-noise-broadband-amplifier-17-db-gain-sma-pe15a3292-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.

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

PE15A3292 CAD Drawing 2.5 dB NF, 7 dBm P1dB, 6 GHz to 12 GHz, Low Noise

Broadband Amplifier, 17 dB Gain, SMA

