



### **TECHNICAL DATA SHEET**

PE15A3290

The PE15A3290 is a broadband coaxial low noise amplifier, operating in the 2 to 8 GHz frequency range. The amplifier offers 13 dBm of P1dB min and 14 dB small signal gain min, with the gain flatness of ±2.0 dB max 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 -20°C to 85°C, and is Hermetically sealed.

#### **Features**

- 2 to 8 GHz Frequency Range
- P1dB: 13 dBm min
- Small Signal Gain: 14 dB minGain Flatness: ±2.0 dB max
- Noise Figure: 2.5 dB max

- 50 Ohm Input and Output Matched
- -20 to +85°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 = 12 Vdc)

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		8	GHz
Gain	14			dB
Output at 1 dB Compression Point	+13			dBm
Noise Figure		2.5		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage 1	11	12	13	Volts
Operating DC Current		120		mA
Operating Temperature Range (OTR)	-40		+80	°C

### **Mechanical Specifications**

#### Size

 Length
 1.083 in [27.51 mm]

 Width
 1.093 in [27.76 mm]

 Height
 0.382 in [9.7 mm]

 Weight
 0.069 lbs [31.3 g]

 Input Connector
 SMA Female

 Output Connector
 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, 13 dBm P1dB, 2 GHz to 8 GHz, Low Noise Broadband Amplifier, 14 dB Gain, SMA PE15A3290

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





## **TECHNICAL DATA SHEET**

PE15A3290

### **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, 13 dBm P1dB, 2 GHz to 8 GHz, Low Noise Broadband Amplifier, 14 dB Gain, SMA PE15A3290

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



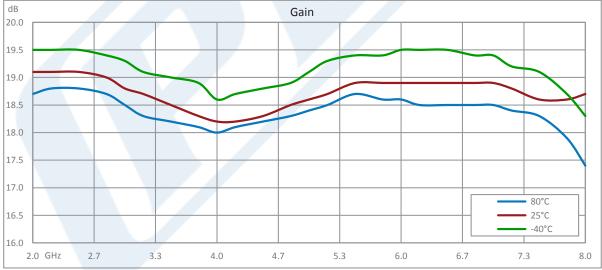


## **TECHNICAL DATA SHEET**

## PE15A3290

#### **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, 13 dBm P1dB, 2 GHz to 8 GHz, Low Noise Broadband Amplifier, 14 dB Gain, SMA PE15A3290

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

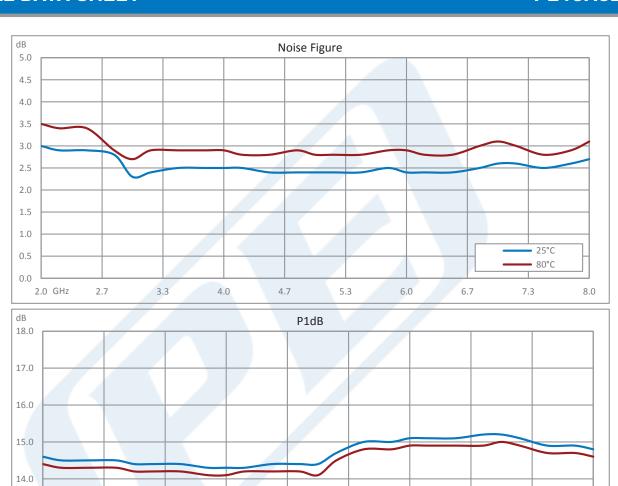




## **TECHNICAL DATA SHEET**

## PE15A3290

8.0



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, 13 dBm P1dB, 2 GHz to 8 GHz, Low Noise Broadband Amplifier, 14 dB Gain, SMA PE15A3290

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

13.0

12.0

2.0 GHz





## **TECHNICAL DATA SHEET**

PE15A3290

2.5 dB NF, 13 dBm P1dB, 2 GHz to 8 GHz, Low Noise Broadband Amplifier, 14 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, 13 dBm P1dB, 2 GHz to 8 GHz, Low Noise Broadband Amplifier, 14 dB Gain, SMA PE15A3290

URL: https://www.pasternack.com/2.5-db-8-ghz-low-noise-broadband-amplifier-14-db-gain-sma-pe15a3290-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

## PE15A3290 CAD Drawing

2.5 dB NF, 13 dBm P1dB, 2 GHz to 8 GHz, Low Noise Broadband Amplifier, 14 dB Gain, SMA

