



### **TECHNICAL DATA SHEET**

The PE15A3293 is a broadband coaxial low noise amplifier, operating in the 6 to 12 GHz frequency range. The amplifier offers +10 dBm of P1dB min and 30 dB small signal gain min, and a Noise Figure of 2.5 dB typ. 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 +10 dBm min
- Small Signal Gain 30 dB min
- Noise Figure 2.5 dB typ
- 50 Ohm Input and Output Matched

#### **Applications**

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

Electrical Specifications (TA= 25°C)

- Communication Systems
- Satellite Communications
- Wireless Communications
- Unmanned Systems

- -40°C to +80°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator
  - Microwave Radio Systems
  - Low Noise Amplifier
  - General Purpose Amplification
  - RF Front Ends

Description	Minimum	Typical	Maximum	Units
Frequency Range	6		12	GHz
Gain	30			dB
Output at 1 dB Compression Point at	+10			dBm
Noise Figure		2.5		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Current		200		mA
Operating Temperature Range (OTR)	-40		+80	°C

#### **Mechanical Specifications**

Weight	0.087 lbs [39.46 g]
Input Connector	SMA Female
Output Connector	SMA Female

#### **Environmental Specifications**

Temperature	
Operating Range	-40 to +80 deg C
Storage Range	-55 to +85 deg C

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, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 30 dB Gain, SMA PE15A3293

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

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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.

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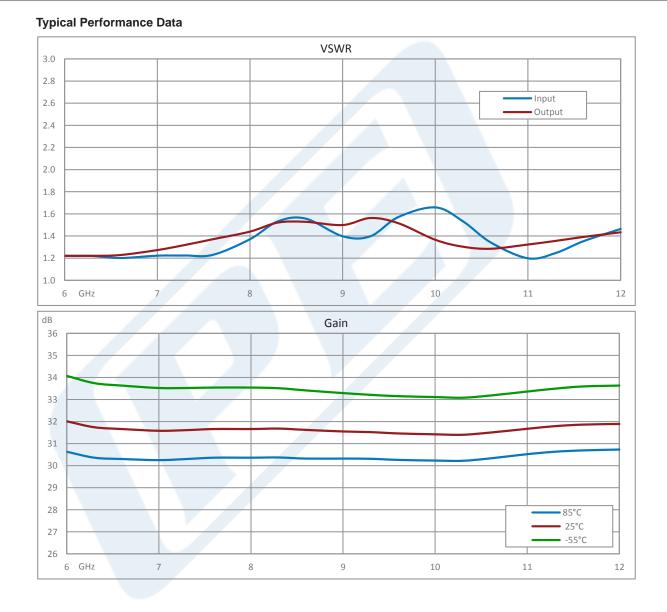
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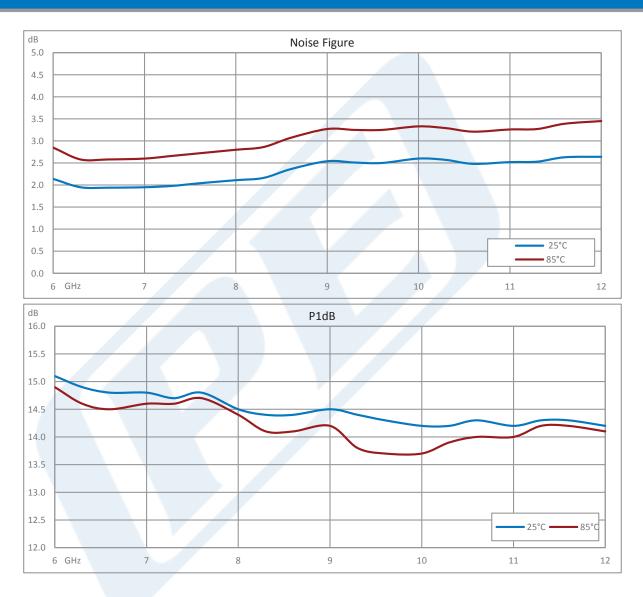
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2.5 dB NF, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 30 dB Gain, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/2.5-db-12-ghz-low-noise-broadband-amplifier-30-db-gain-sma-pe15a3293-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.

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5



2.5 dB NF, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 30 dB Gain, SMA

# PE15A3293 CAD Drawing

2.5 dB NF, 6 GHz to 12 GHz, Low Noise Broadband Amplifier, 30 dB Gain, SMA

