



TECHNICAL DATA SHEET

PE15A4045

The PE15A4045 is a broadband coaxial power amplifier, operating in the 6.0 to 12.0 GHz frequency range. The amplifier offers 27 dBm of P1dB min and 28 dB small signal gain typ, with the gain flatness of ±0.8 dB typ. This power amplifier requires only a single positive DC supply, is unconditionally stable, operates over the temperature range of -30°C to 70°C, and is Hermetically sealed.

Features

- 6.0 to 12.0 GHz Frequency Range
- P1dB: 27 dBm min
- Small Signal Gain: 28 dB typ
- Gain Flatness: ±0.8 dB typ
- 50 Ohm Input and Output Matched

- -30 to +70°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	6		12	GHz
Gain	25	28		dB
Gain Flatness		±0.8	±1	dB
Output at 1 dB Compression Point	+27			dBm
Output 3rd Intercept Point	+37			dBm
Noise Figure		5		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage 1	11	12	15	Volts
Operating DC Current		500	550	mA
Operating Temperature Range (OTR)	-30		+70	°C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 500 mW P1dB, 6 GHz to 12 GHz, Medium Power Broadband Amplifier, 28 dB Gain, 5 dB NF, SMA PE15A4045

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





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Mechanical Specifications

Size

 Length
 1.333 in [33.86 mm]

 Width
 1.093 in [27.76 mm]

 Height
 0.382 in [9.7 mm]

 Weight
 0.077 lbs [34.93 g]

 Input Connector
 SMA Female

 Output Connector
 SMA Female

Environmental Specifications

Temperature

Operating Range -30 to +70 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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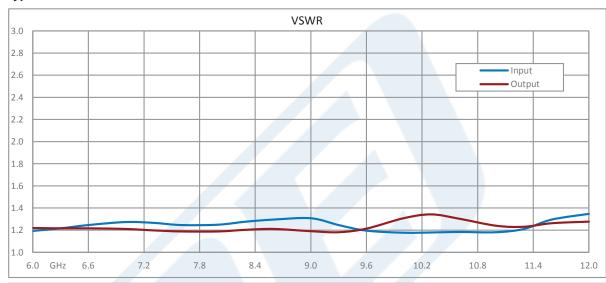


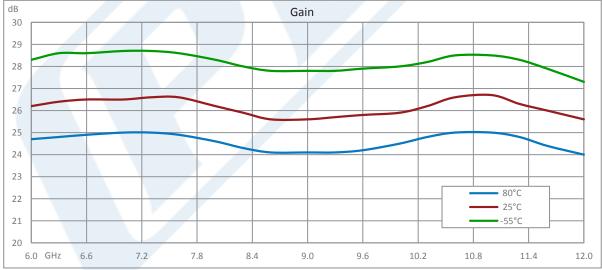


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Typical Performance Data





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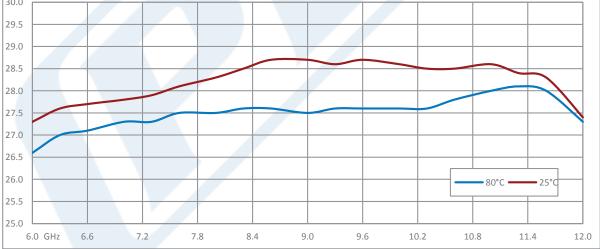




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500 mW P1dB, 6 GHz to 12 GHz, Medium Power Broadband Amplifier, 28 dB Gain, 5 dB NF, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/12-ghz-medium-power-broadband-amplifier-28-db-gain-5-db-sma-pe15a4045-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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PE15A4045 CAD Drawing

500 mW P1dB, 6 GHz to 12 GHz, Medium Power Broadband Amplifier, 28 dB Gain, 5 dB NF, SMA

