



50 Ohm Input and Output Matched -40 to +50°C Operating Temperature

Unconditionally Stable

Single DC Positive Supply Built-in DC Voltage Regulator

20 dBm P1dB, 18 GHz to 40 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 6.5 dB NF, 2.92mm

### **TECHNICAL DATA SHEET**

The PE15A3025 is a broadband coaxial low noise amplifier, operating in the 18 to 40 GHz frequency range. The amplifier offers 20 dBm of P1dB typ and 30 dB small signal gain typ, with the gain flatness of ±2.5 dB typ performance. This low noise amplifier requires only a single positive DC supply, in unconditionally stable, operates over the temperature range of -40°C to 50°C, and is Hermetically sealed.

#### Features

- 18 to 40 GHz Frequency Range
- P1dB: 20 dBm tp
- Small Signal Gain: 30 dB typ
- Gain Flatness: ±2.5 dB typ
- Noise Figure: 6.5 dB typ

#### Applications

- Laboratory Applications
- R&D Labs

- Test Instrumentation
- Telecommunication

#### Electrical Specifications (TA= 25°C)

Typical Description Minimum Maximum Units 18 Frequency Range 40 GHz 26 dB Gain 30 Gain Flatness ±2.5 dB ±3 +20 Output at 1 dB Compression Point +18 dBm Input Power +5 dBm Spurious -70 -60 dBc 7.5 Noise Figure 6.5 dB Input Return Loss 10 dB **Output Return Loss** 10 dB 8 **Operating DC Voltage 1** 12 Volts **Operating DC Current** 350 mΑ Operating Temperature Range (OTR) °C -40 +50

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 20 dBm P1dB, 18 GHz to 40 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 6.5 dB NF, 2.92mm PE15A3025

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

PE15A3025



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## PE15A3025

Mechanical Specifications	
Size	
Length	
Width	
Height	
Woight	

Weight Input Connector **Output Connector**  1.2 in [30.48 mm] 1.2 in [30.48 mm] 0.6 in [15.24 mm] 0.1133 lbs [51.39 g] 2.92mm Female 2.92mm Female

#### **Environmental Specifications**

Temperature **Operating Range** 

-40 to +50 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

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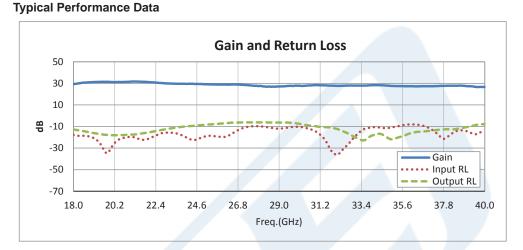
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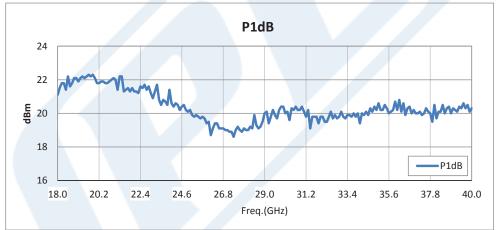




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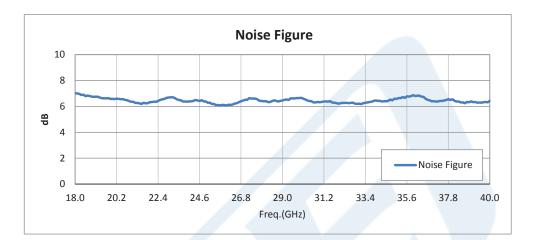
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20 dBm P1dB, 18 GHz to 40 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 6.5 dB NF, 2.92mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/40-ghz-medium-power-broadband-amplifier-30-db-gain-4-db-2.92mm-pe15a3025-p.aspx

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PE15A3025 CAD Drawing

20 dBm P1dB, 18 GHz to 40 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 6.5 dB NF, 2.92mm

