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THE ENGINEER'S RF SOURCE



20 dBm P1dB, 18 GHz to 40 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 4 dB NF, 2.92mm

TECHNICAL DATA SHEET PE15A3025

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 min and 30 dB small signal gain typ, with the gain flatness of ±2.0 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 min
- Small Signal Gain: 30 dB typ
- Gain Flatness: ±2.0 dB
- Noise Figure: 4 dB typ
- 50 Ohm Input and Output Matched
- -40 to +50°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

Applications

- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Telecommunication

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 350mA)

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		40	GHz
Gain		30		dB
Gain Flatness		±2		dB
Output at 1 dB Compression Point	+20			dBm
Noise Figure		4	6	dB
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage	8		12	Volts
Operating DC Current		350		mA
Operating Temperature Range (OTR)	-40		+50	°C

Mechanical Specifications

Size	
Length	1.2 in [30.48 mm]
Width	1.2 in [30.48 mm]
Height	0.6 in [15.24 mm]
Input Connector	2.92mm Female
Output Connector	2.92mm Female

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, 4 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
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Environmental Specifications

Temperature

Operating Range	-40 to +50 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.



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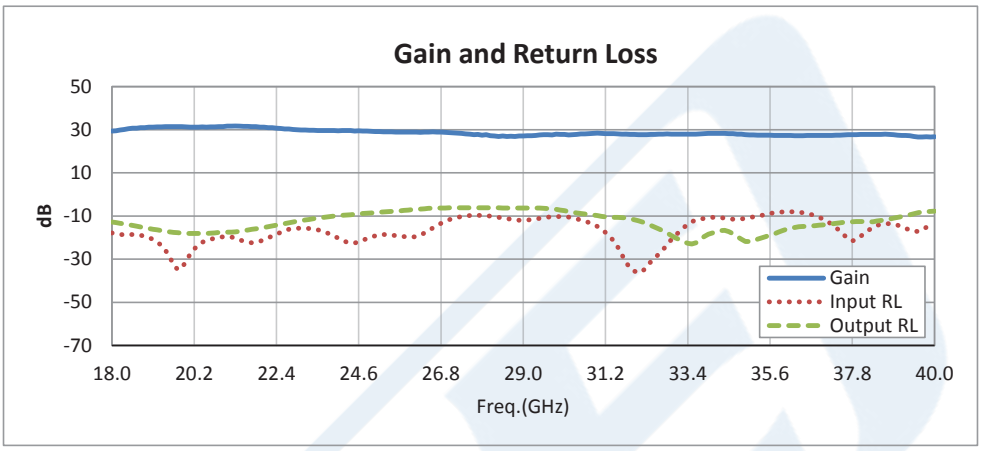
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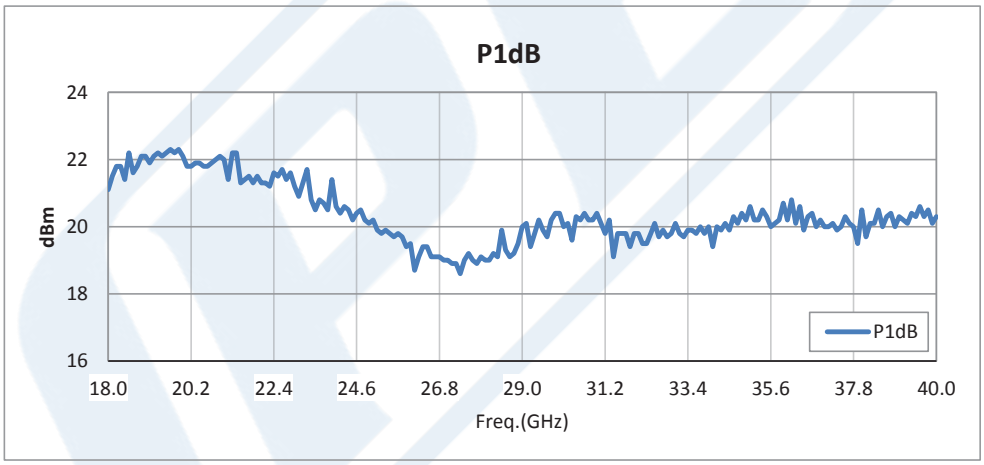


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Typical Performance Data





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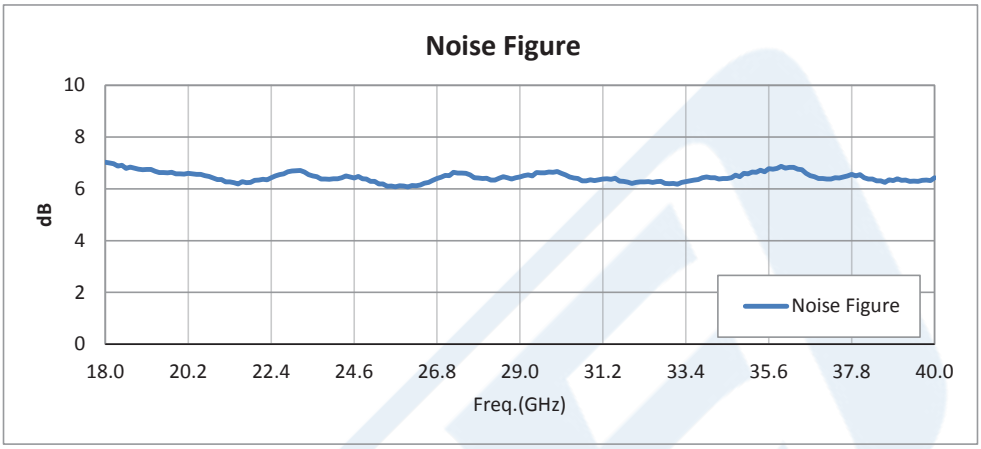
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20 dBm P1dB, 18 GHz to 40 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 4 dB NF, 2.92mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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

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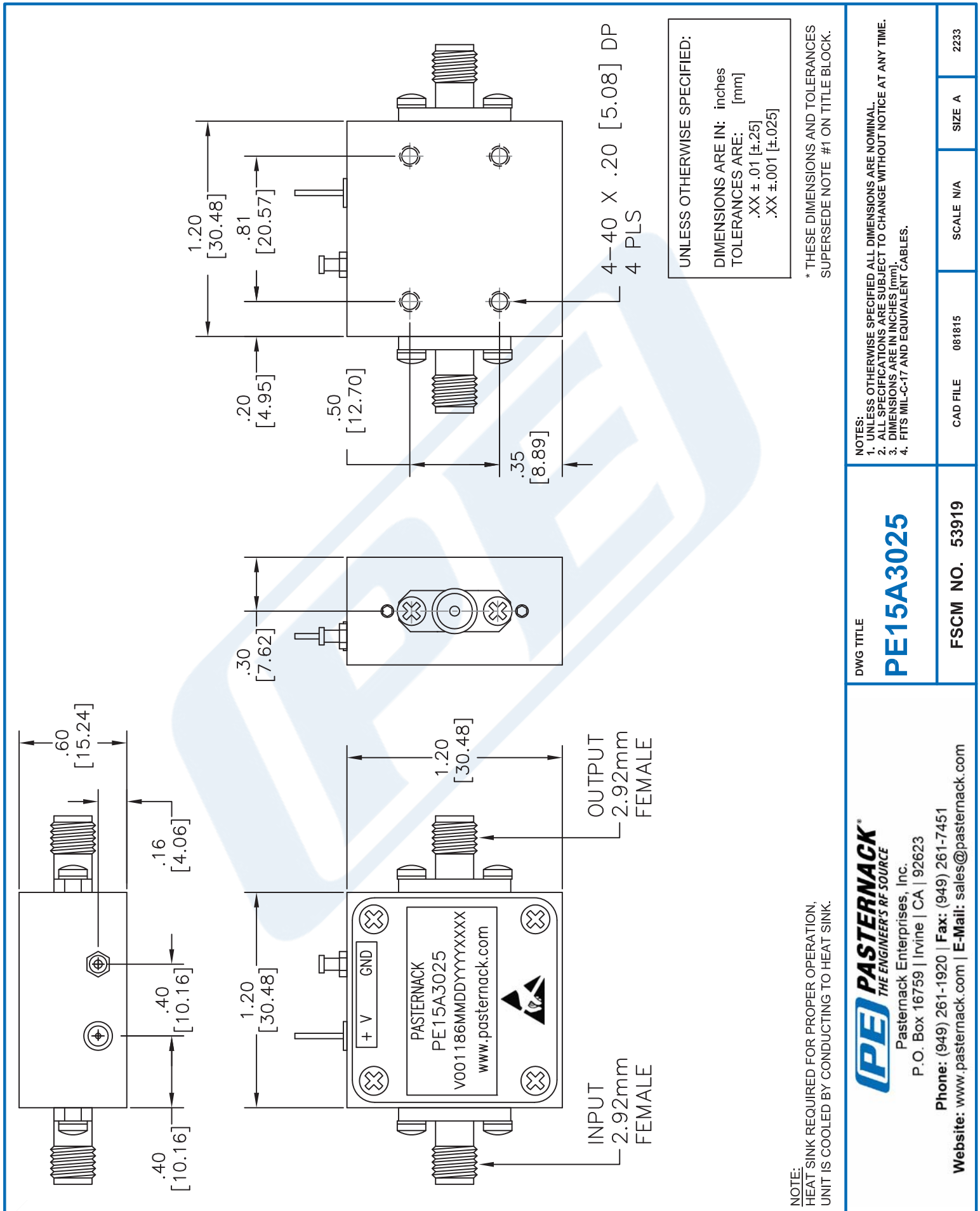
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PE15A3025 CAD Drawing

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