



20 dBm P1dB, 26.5 GHz to 40 GHz, Medium Power
Broadband Amplifier, 30 dB Gain, 6 dB NF, 2.92mm

TECHNICAL DATA SHEET

PE15A4022

The PE15A4022 is a broadband coaxial low noise amplifier, operating in the 26.5 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 ± 2.0 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

- 26.5 to 40 GHz Frequency Range
- P1dB: 18 dBm min
- Small Signal Gain: 30 dB typ
- Gain Flatness: ± 2.0 dB
- Noise Figure: 6 dB max
- 50 Ohm Input and Output Matched
- -40 to $+50^{\circ}\text{C}$ 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)

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
Gain		30		dB
Gain Flatness		± 2		dB
Output at 1 dB Compression Point	+18	+20		dBm
Input Power			+0	dBm
Spurious		-70	-60	dBc
Noise Figure			6	dB
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage 1	8		12	Volts
Operating DC Current		350		mA
Operating Temperature Range (OTR)	-40		+50	$^{\circ}\text{C}$

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, 26.5 GHz to 40 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 6 dB NF, 2.92mm PE15A4022](#)



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Mechanical Specifications

Size

Length	1.2 in [30.48 mm]
Width	1.2 in [30.48 mm]
Height	0.6 in [15.24 mm]
Weight	0.113 lbs [51.26 g]
Input Connector	2.92mm Female
Output Connector	2.92mm Female

Environmental Specifications

Temperature

Operating Range	-40 to +50 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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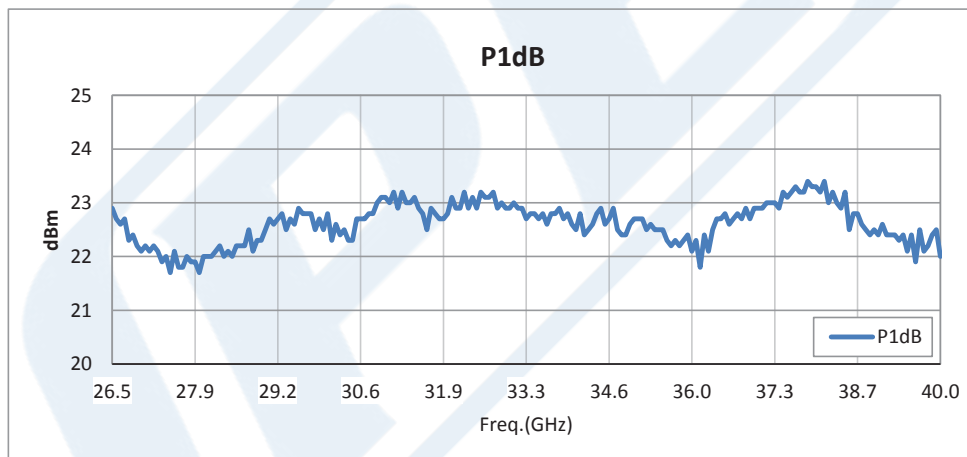
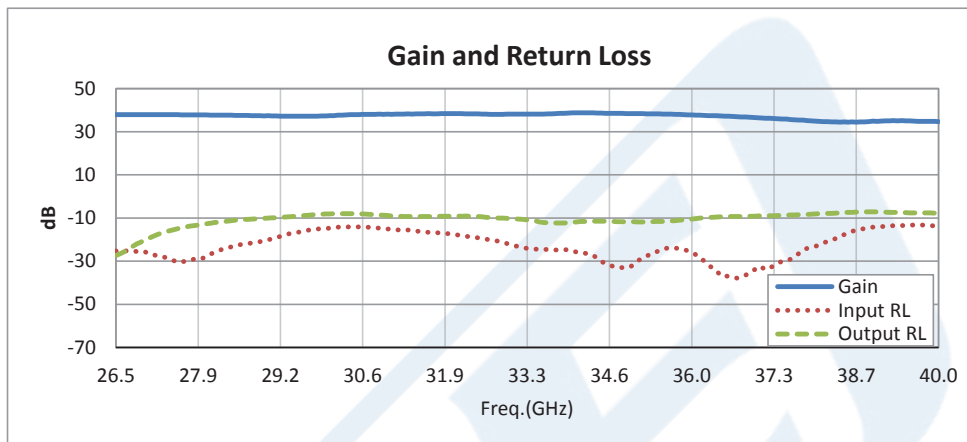


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Typical Performance Data



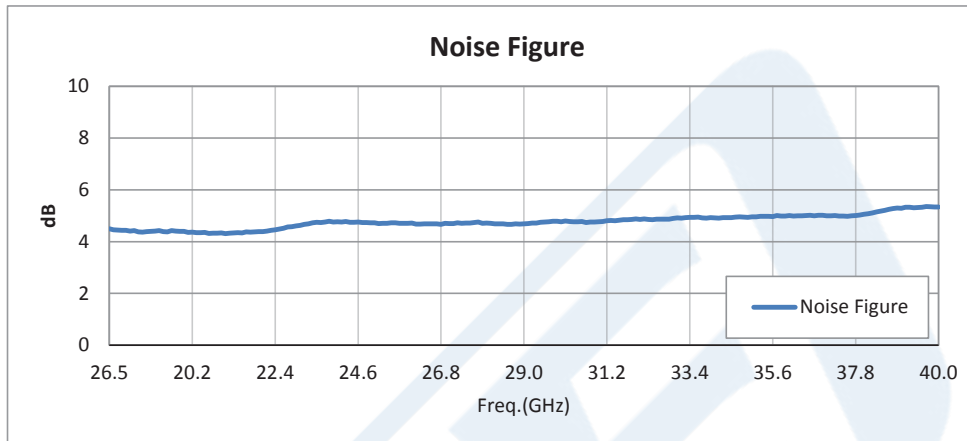
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20 dBm P1dB, 26.5 GHz to 40 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 6 dB NF, 2.92mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

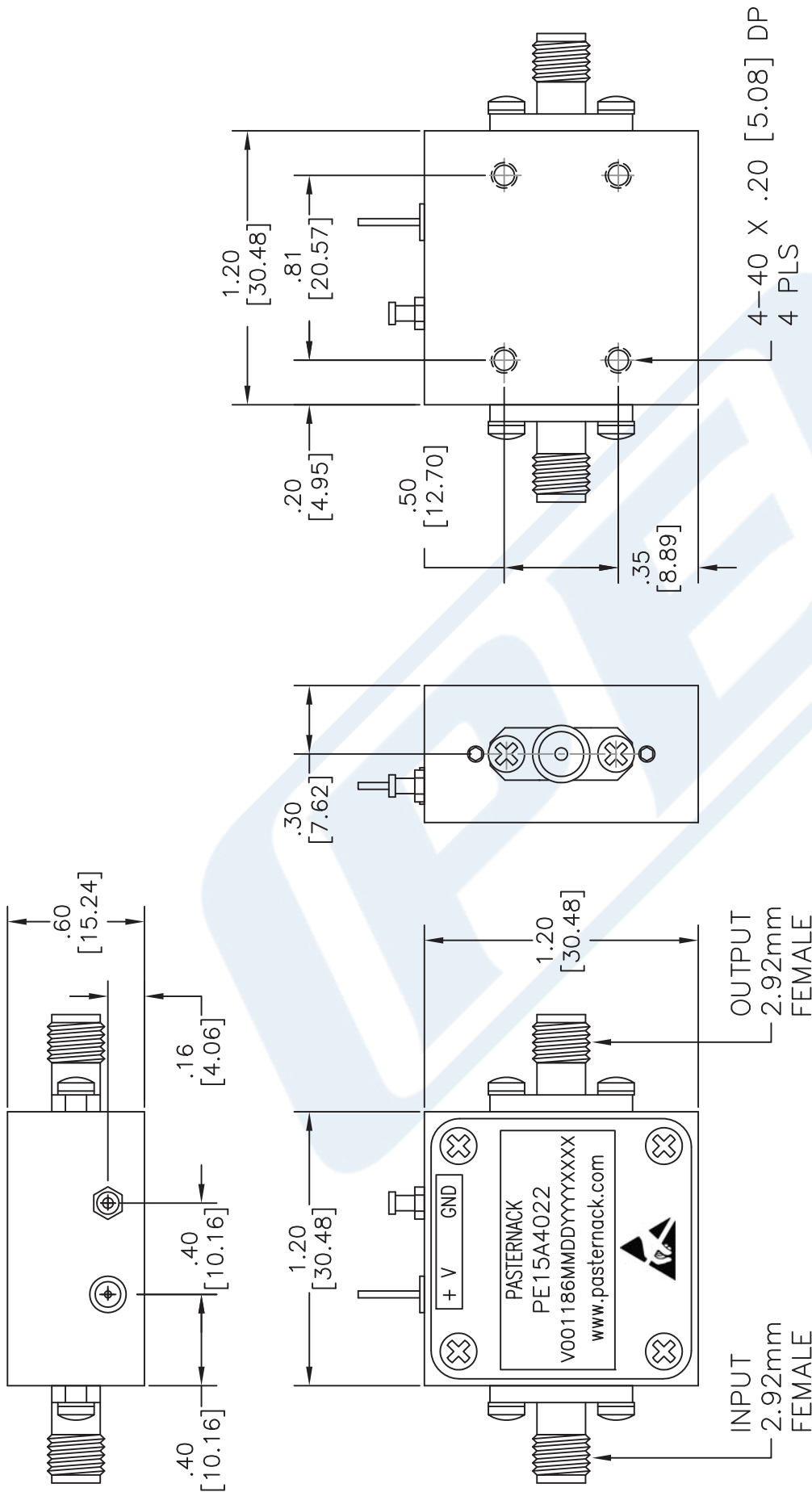
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [20 dBm P1dB, 26.5 GHz to 40 GHz, Medium Power Broadband Amplifier, 30 dB Gain, 6 dB NF, 2.92mm PE15A4022](https://www.pasternack.com/40-ghz-medium-power-broadband-amplifier-30-db-gain-6-db-2.92mm-pe15a4022-p.aspx)

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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.

PE15A4022 CAD Drawing

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Amplifier, 30 dB Gain, 6 dB NF, 2.92mm



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN: inches
TOLERANCES ARE: [mm]
.XX ± .01 [±.25]
.XX ± .001 [±.025]

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

NOTE:
HEAT SINK REQUIRED FOR PROPER OPERATION,
UNIT IS COOLED BY CONDUCTING TO HEAT SINK.

DWG TITLE

PE15A4022

PASTERNACK®
THE ENGINEER'S RF SOURCE

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 081815

SCALE N/A

SIZE A

2233