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24 dBm P1dB, 500 MHz to 2 GHz, Medium Power Broadband Amplifier, 14 dB Gain, 34 dBm IP3, 2.7 dB NF, SMA

TECHNICAL DATA SHEET PE15A4038

The PE15A4038 is a broadband coaxial power amplifier, operating in the 0.5 to 2 GHz frequency range. The amplifier offers 24 dBm of P1dB min and 14 dB small signal gain typ, with the gain flatness of ±0.4 dB typ. This power amplifier requires only a single positive DC supply, in unconditionally stable, operates over the temperature range of -30°C to +70°C, and is Hermetically sealed.

Features

- 0.5 to 2 GHz Frequency Range
- P1dB: 24 dBm min
- Small Signal Gain: 14 dB typ
- Gain Flatness: ±0.4 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	0.5		2	GHz
Gain	13	14		dB
Gain Flatness		±0.4	±0.5	dB
Output at 1 dB Compression Point	+24			dBm
Output 3rd Intercept Point		+34		dBm
Noise Figure		2.7		dB
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage 1	11	12	15	Volts
Operating DC Current		180	200	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: 24 dBm P1dB, 500 MHz to 2 GHz, Medium Power Broadband Amplifier, 14 dB Gain, 34 dBm IP3, 2.7 dB NF, SMA PE15A4038

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	1.1 in [27.94 mm]
Width	0.9 in [22.86 mm]
Height	0.5 in [12.7 mm]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature

Operating Range	-30 to +70 deg C
ESD Sensitivity	ESD Sensitive Material, Transport in Approved ESD bags. Handle only in approved ESD Workstation.



Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at +25 °C, sea level

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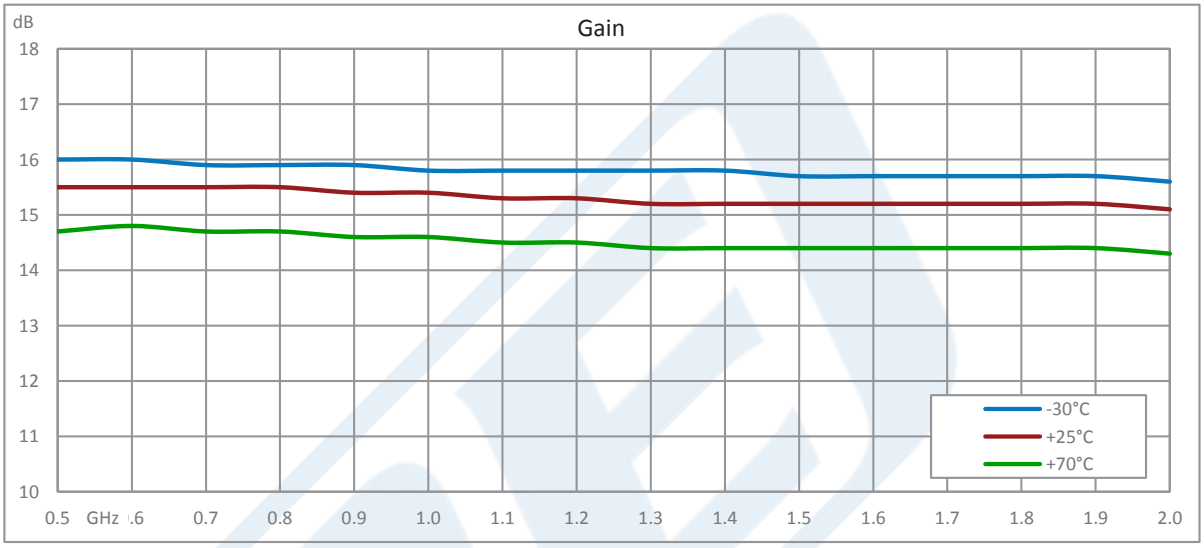
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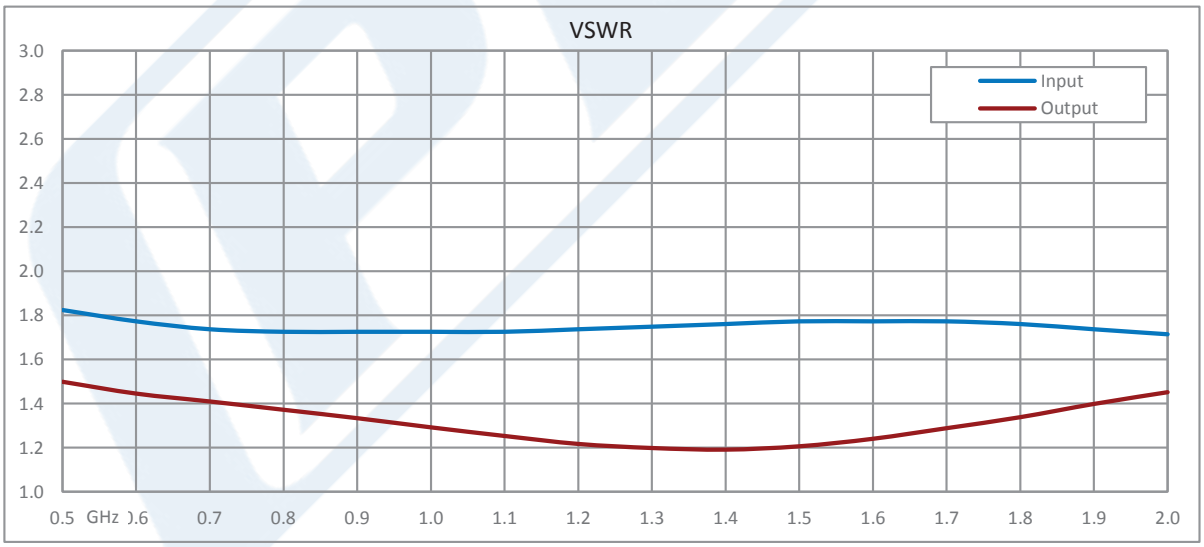


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Typical Performance Data





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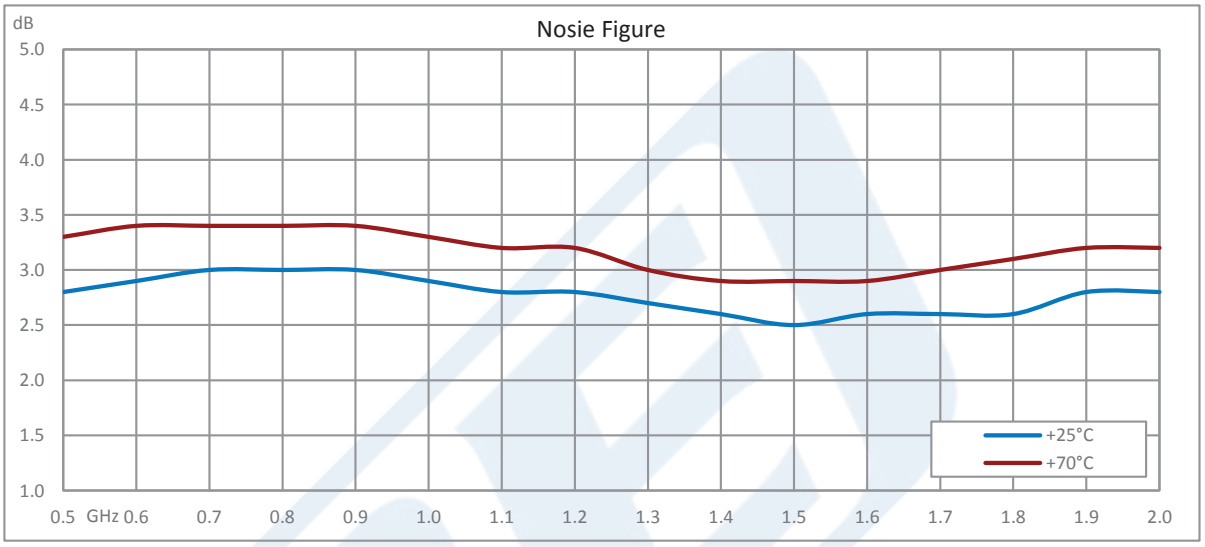
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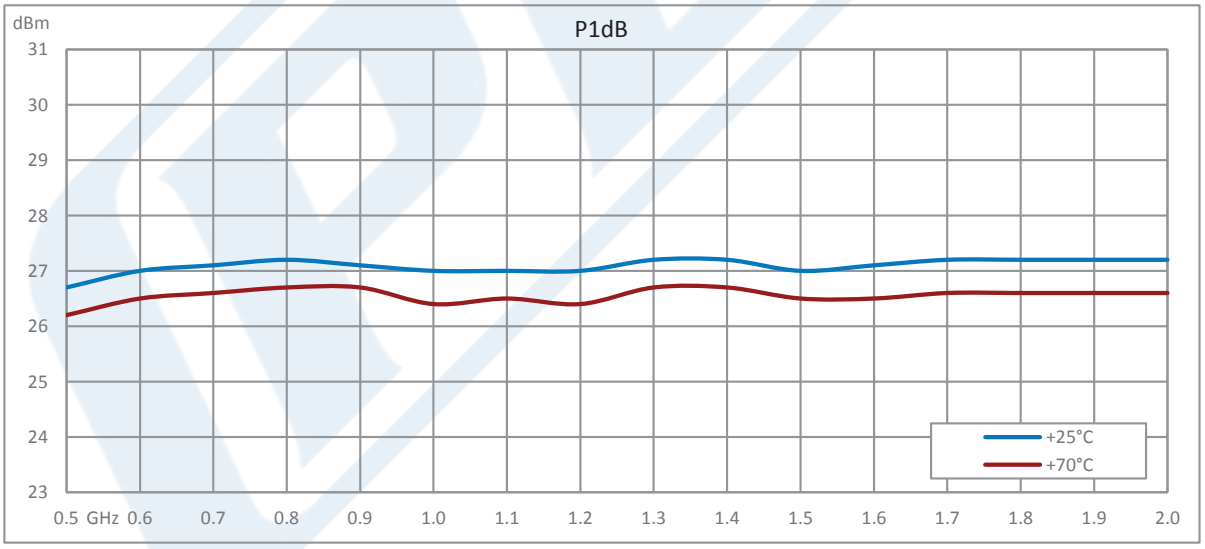
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URL: https://www.pasternack.com/2-ghz-medium-power-broadband-amplifier-14-db-gain-2.7-db-sma-pe15a4038-p.aspx

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.

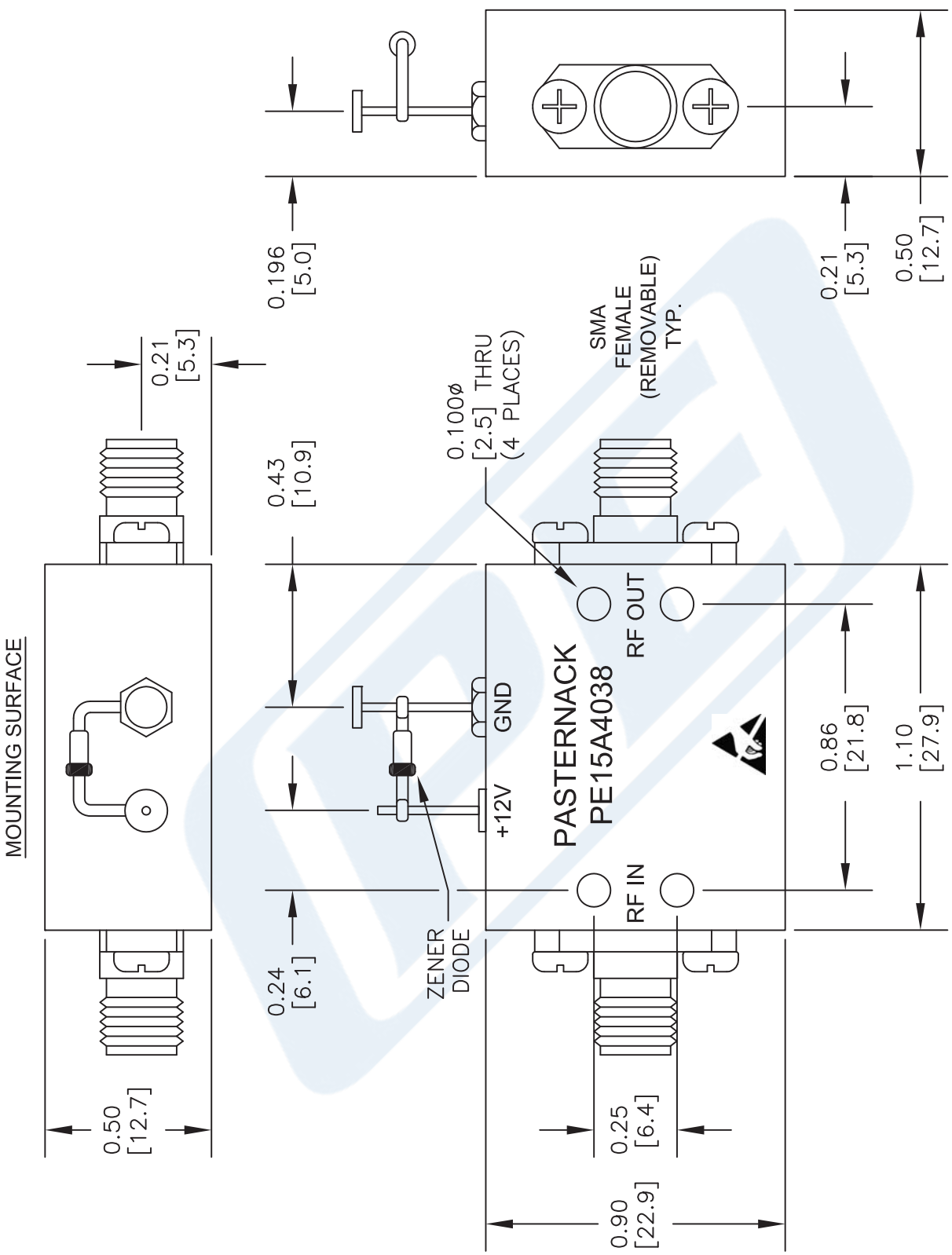
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PE15A4038 CAD Drawing

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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].

CAD FILE	032416	SCALE N/A	SIZE A	2233

DWG TITLE: **PE15A4038**

FSCM NO. 53919

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