



600 mW Psat, 800 MHz to 5.5 GHz, Medium Power
Broadband Amplifier, 20 dB Gain, 34 dBm IP3, SMA

TECHNICAL DATA SHEET

PE15A3264

The PE15A3264 is a 25 dBm power amplifier designed for operation in the 0.8 GHz to 5.5 GHz frequency range. The amplifier utilizes high power devices that provide excellent linearity and high gain. High efficiency operation is achieved by using hybrid MIC designs and advanced GaAs PHEMT devices. The amplifier requires only +12 VDC power supply.

Features

- 0.8 GHz to 5.5 GHz Frequency Range
- P1dB +25 dBm typ.
- Psat 28 dBm typ
- IP3 34 dBm typ
- Gain 20 dB min.
- Gain Flatness +/-0.5 dB typ

Applications

- Medium Power Amplifier
- Driver Amp
- Military Communications
- Broadband Communication
- Test & Measurement

Electrical Specifications (TA= 25°C, VDC1 = 12 Vdc)

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.8		5.5	GHz
Gain	20			dB
Gain Flatness		±0.5		dB
Output at 1 dB Compression Point	+24	+25		dBm
Saturation Output Power	+27	+28		dBm
Output 3 rd Intercept Point	+33	+34		dBm
Input VSWR		1.8:1	2:1	
Output VSWR		1.8:1	2:1	
Operating DC Voltage 1		12		Volts
Operating DC Current		750	770	mA
Operating Temperature Range (OTR)	-30		+60	°C

Mechanical Specifications

Size	
Length	1.093 in [27.76 mm]
Width	1.33 in [33.78 mm]
Height	0.382 in [9.7 mm]
Weight	0.148 lbs [67.13 g]
Input Connector	SMA Female
Output Connector	SMA Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [600 mW Psat, 800 MHz to 5.5 GHz, Medium Power Broadband Amplifier, 20 dB Gain, 34 dBm IP3, SMA PE15A3264](#)



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Environmental Specifications

Temperature

Operating Range

-30 to +60 deg C

Shock

RTCS, DO-160C

Vibration

RTCS, DO-160C

Temperature Cycling

MIL-STD-883, METHOD 1010

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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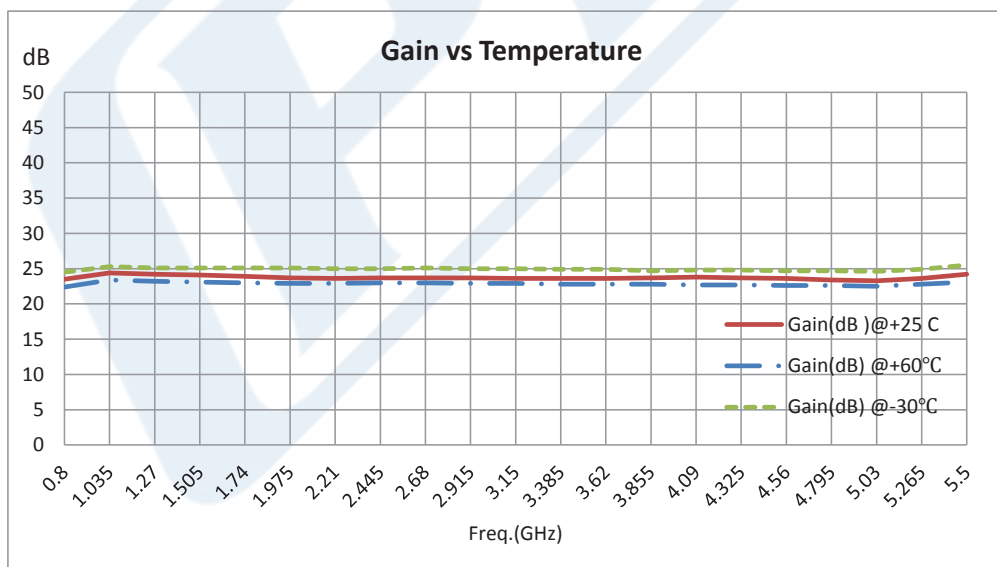
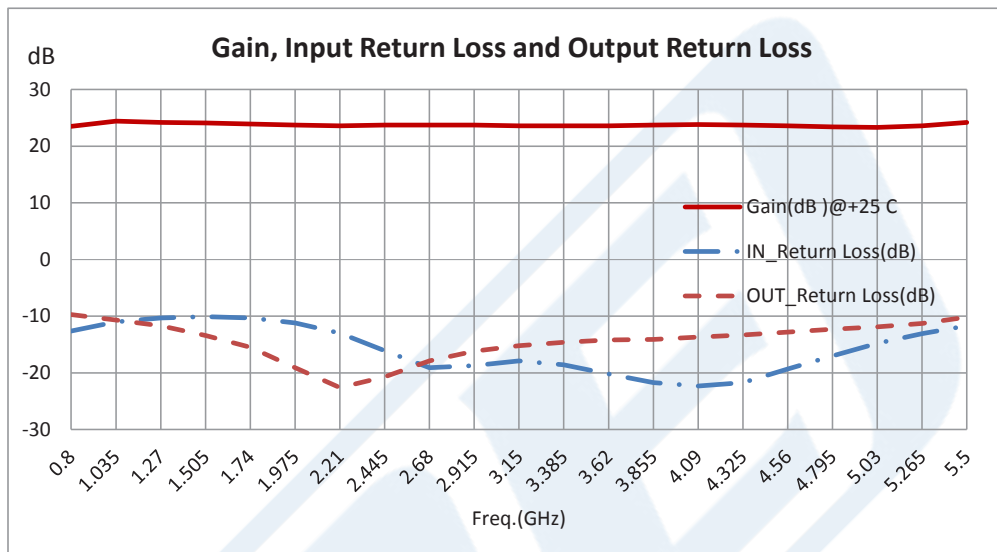


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Typical Performance Data



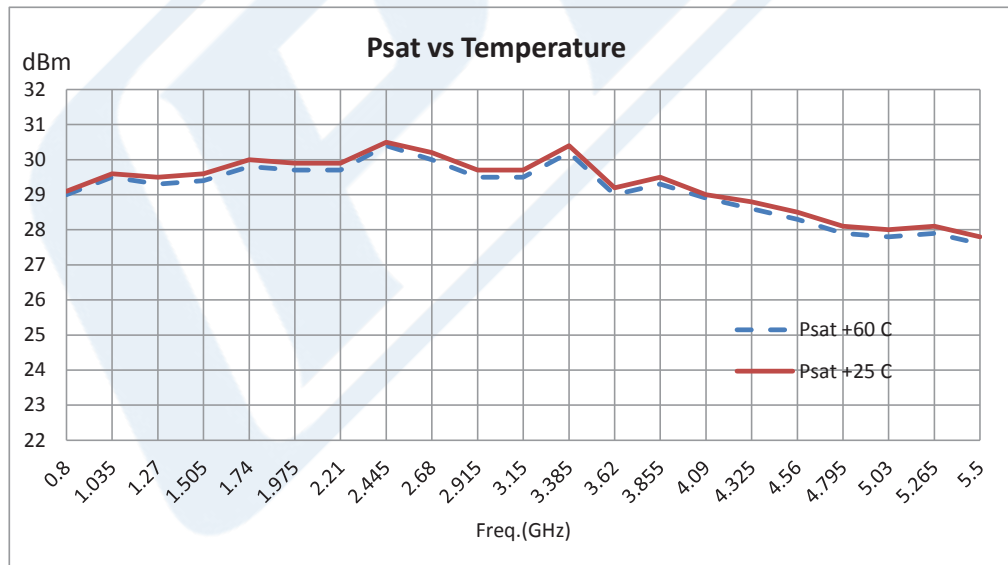
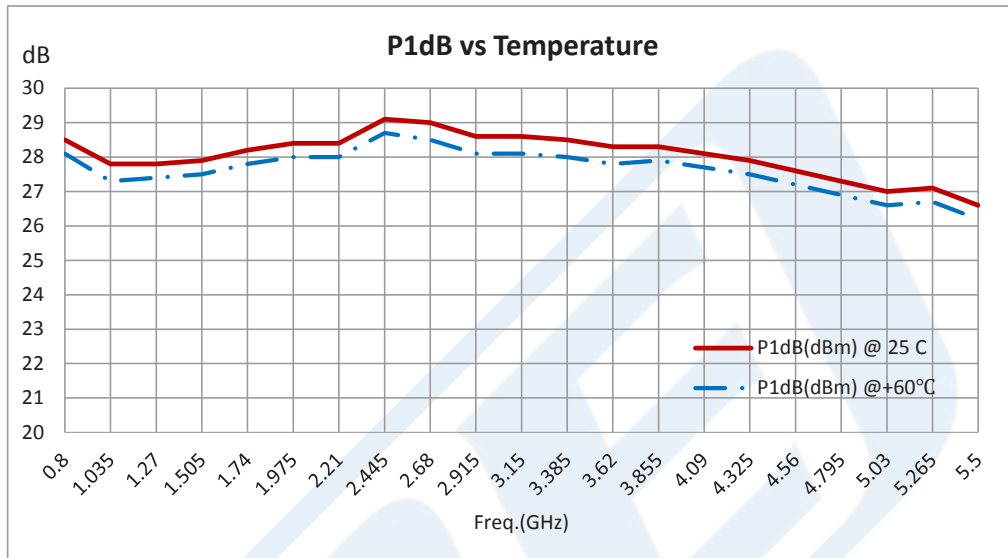
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600 mW Psat, 800 MHz to 5.5 GHz, Medium Power Broadband Amplifier, 20 dB Gain, 34 dBm IP3, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

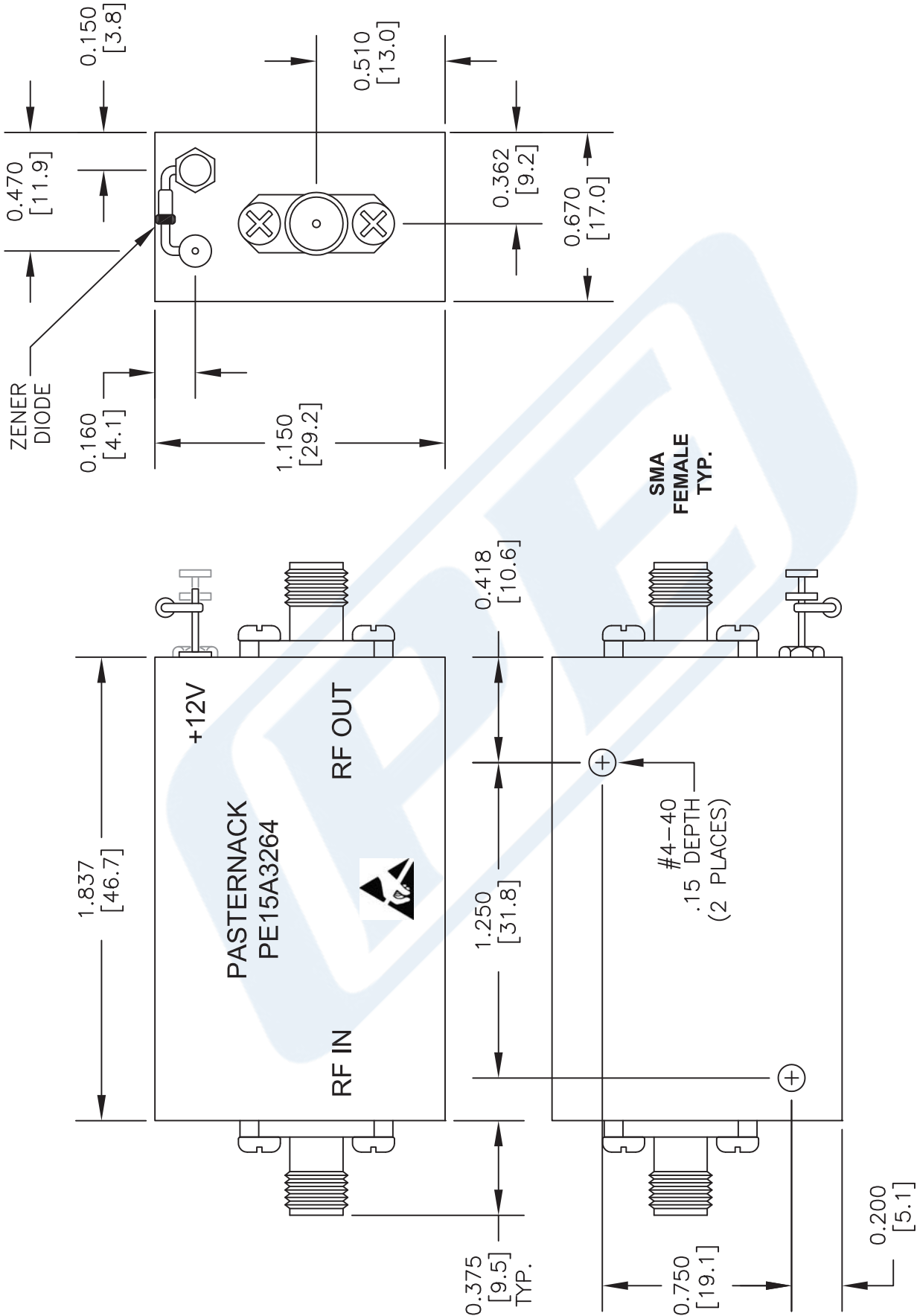
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE15A3264 CAD Drawing

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DWG TITLE

PE15A3264

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].

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FSCM NO. 53919

CAD FILE 110414

SCALE N/A

SIZE A

2233