



20 dBm Psat, 1 GHz to 18 GHz, Medium Power  
Broadband Amplifier, 30 dB Gain, SMA

TECHNICAL DATA SHEET

PE15A3262

The PE15A3262 is a 20 dBm power amplifier designed for operation in the 1 GHz to 18 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**

- 1 GHz to 18 GHz Frequency Range
- P1dB +19 dBm typ.
- Psat 20 dBm min.
- Gain 30 dB min.
- Gain Flatness +/-1.5 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	1		18	GHz
Gain	30			dB
Gain Flatness		±1.5		dB
Gain Variance at OTR*		±1.5		dB
Output at 1 dB Compression Point		+19		dBm
Saturation Output Power	+20			dBm
Noise Figure at 1 to 2 GHz		3.7		dB
Noise Figure at 2 to 18 GHz		3.2		dB
Input VSWR		2:1	2.5:1	
Output VSWR		2:1	2.5:1	
Operating DC Voltage 1	11	12	13	Volts
Operating DC Current		240	270	mA
Operating Temperature Range (OTR)	-54		+71	°C

\*OTR= Base Plate Operating Temperature Range

**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	0.08 lbs [36.29 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: [20 dBm Psat, 1 GHz to 18 GHz, Medium Power Broadband Amplifier, 30 dB Gain, SMA PE15A3262](#)



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### Environmental Specifications

#### Temperature

Operating Range

-54 to +71 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:

- 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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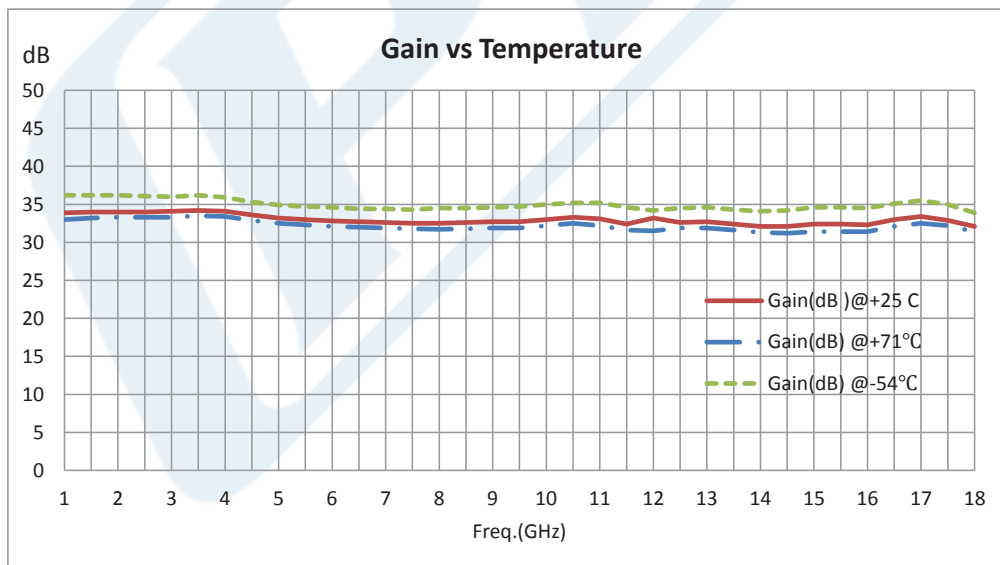
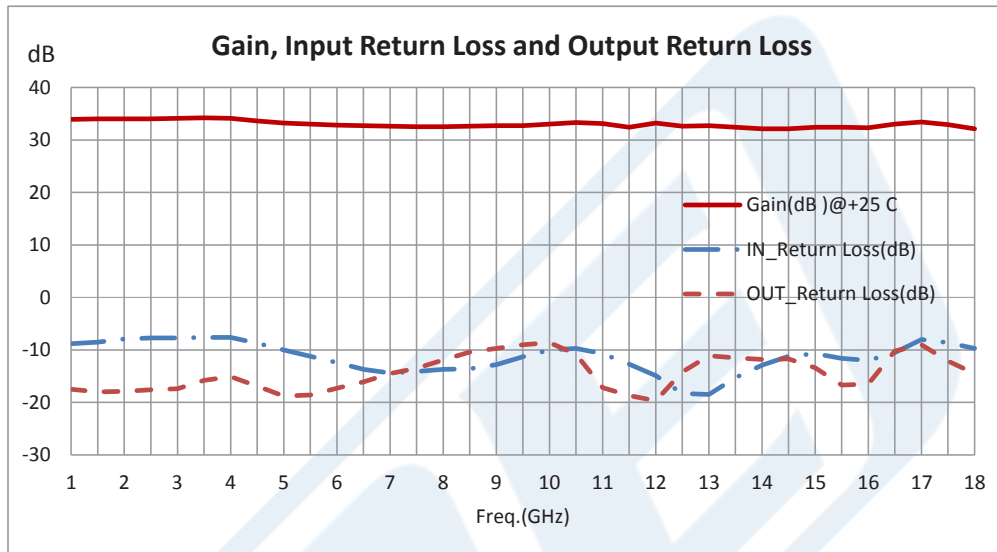


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### Typical Performance Data



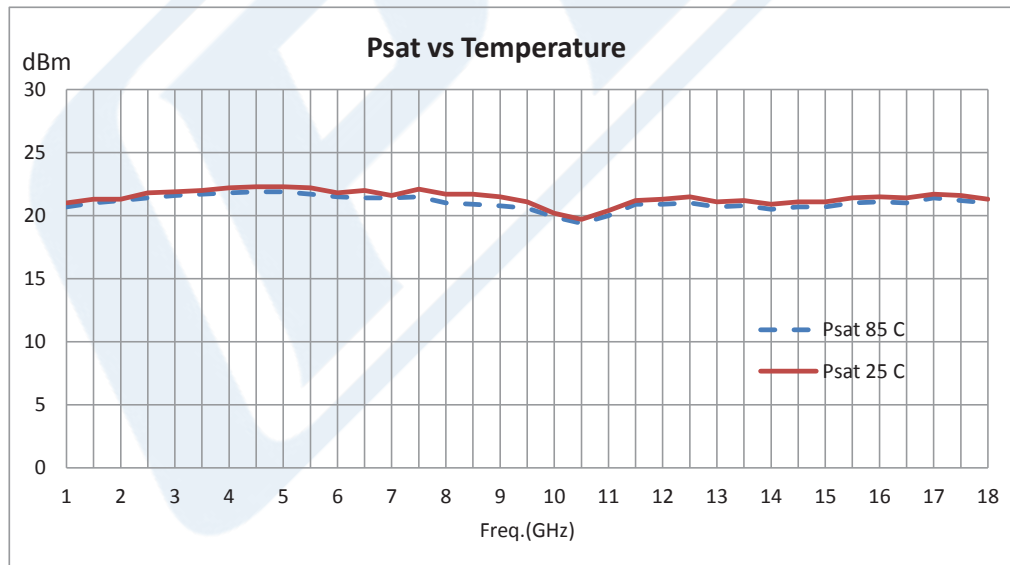
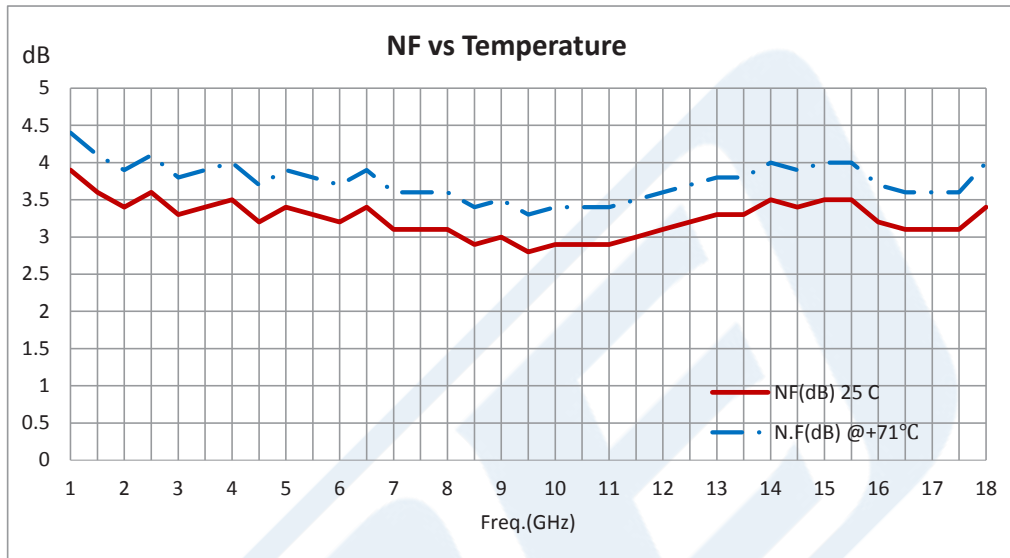
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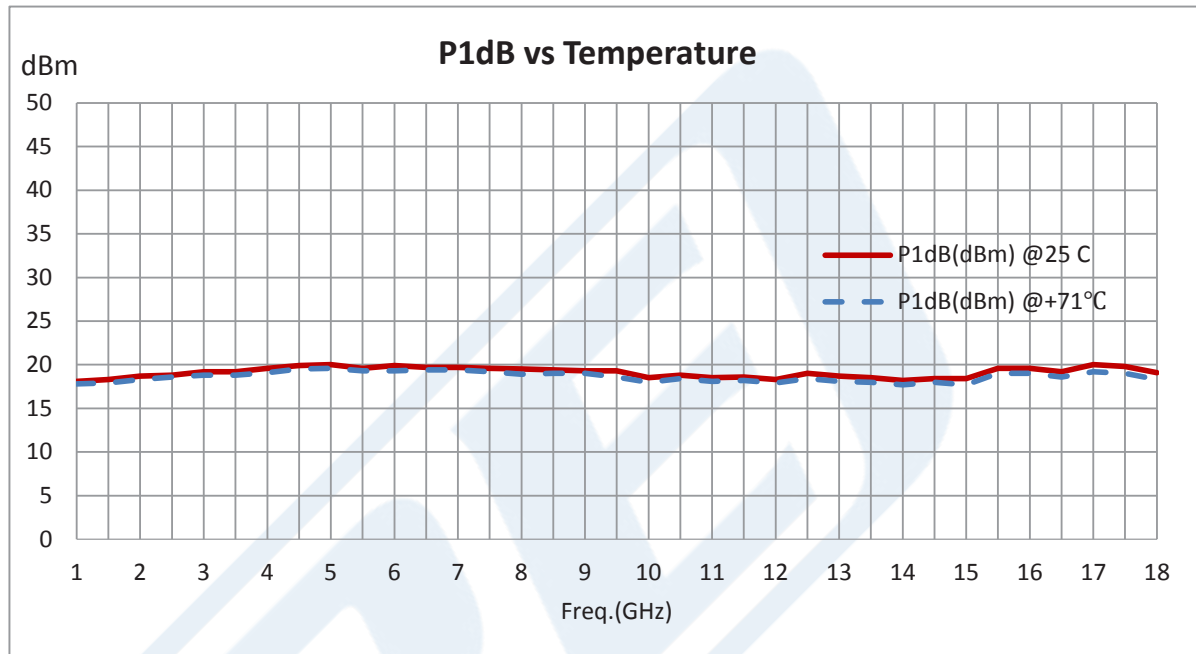
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20 dBm Psat, 1 GHz to 18 GHz, Medium Power Broadband Amplifier, 30 dB Gain, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

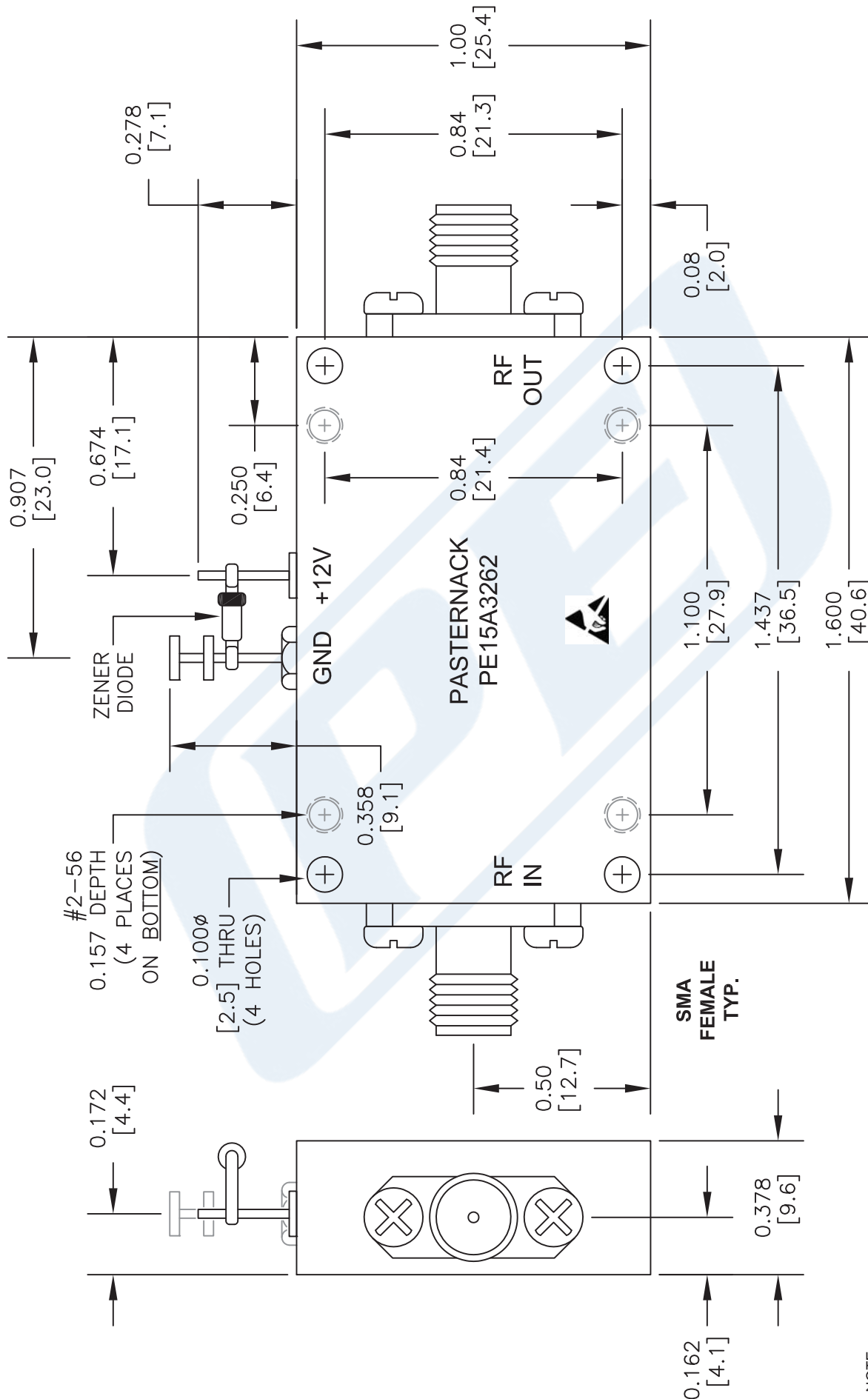
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

# PE15A3262 CAD Drawing

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

DWG TITLE

**PE15A3262**

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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CAD FILE 120814

SCALE N/A

SIZE A

2233