



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

Vibration

Temperature Cycling

RTCS, DO-160C

RTCS, DO-160C

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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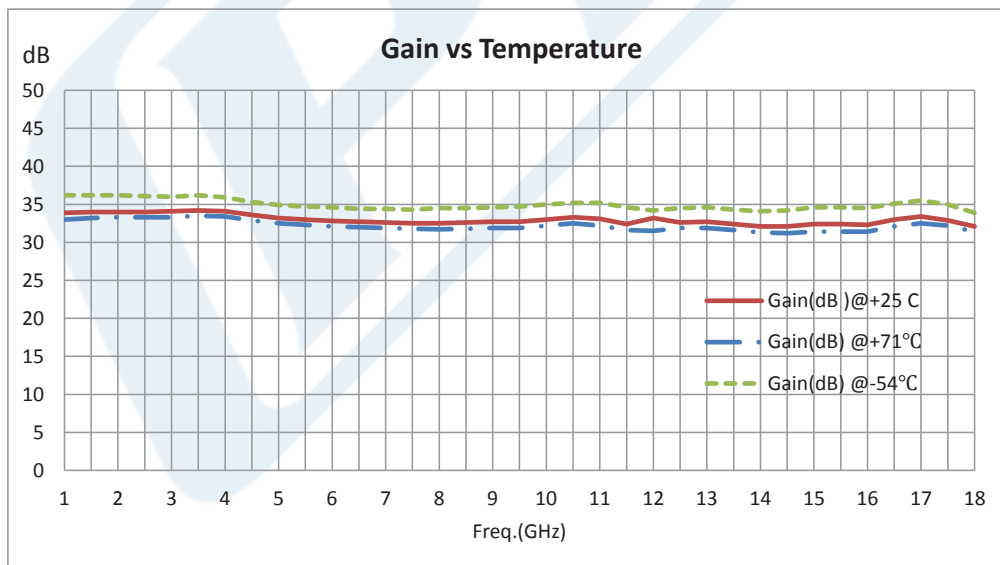
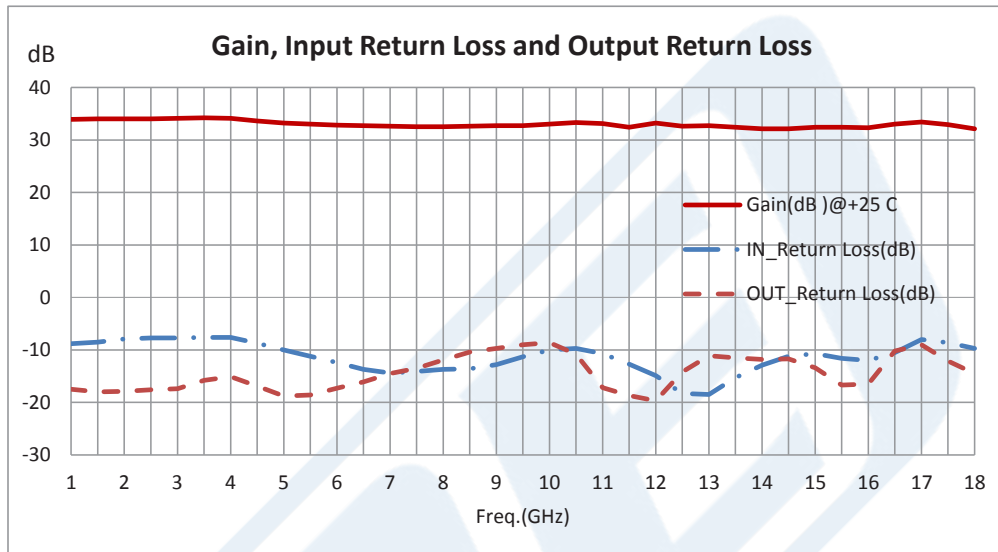


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Typical Performance Data



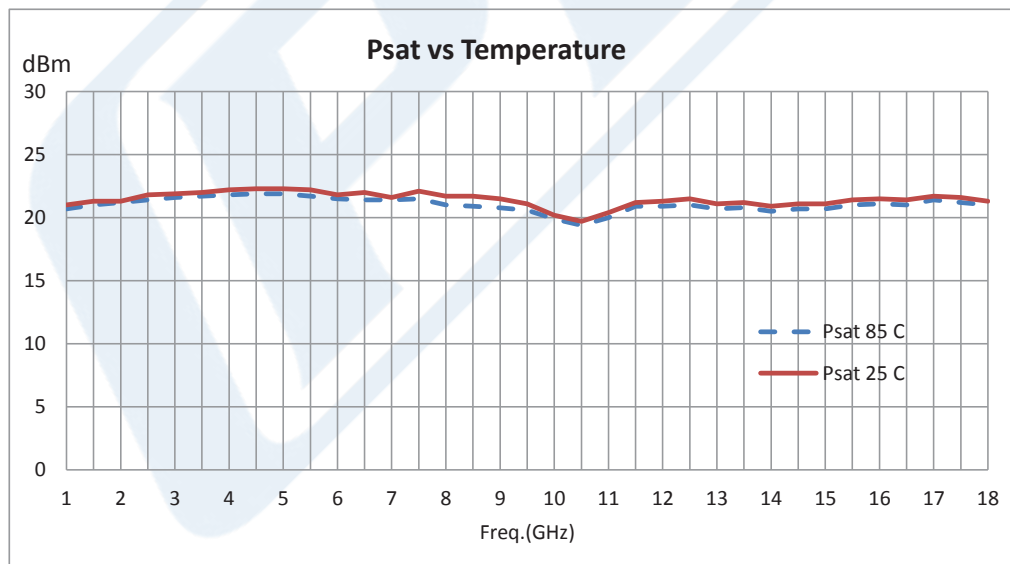
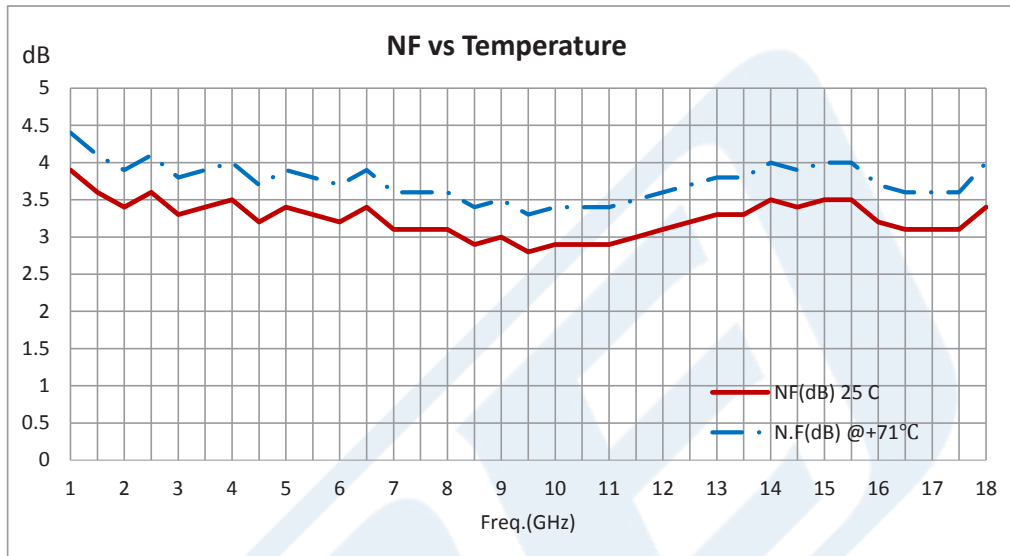
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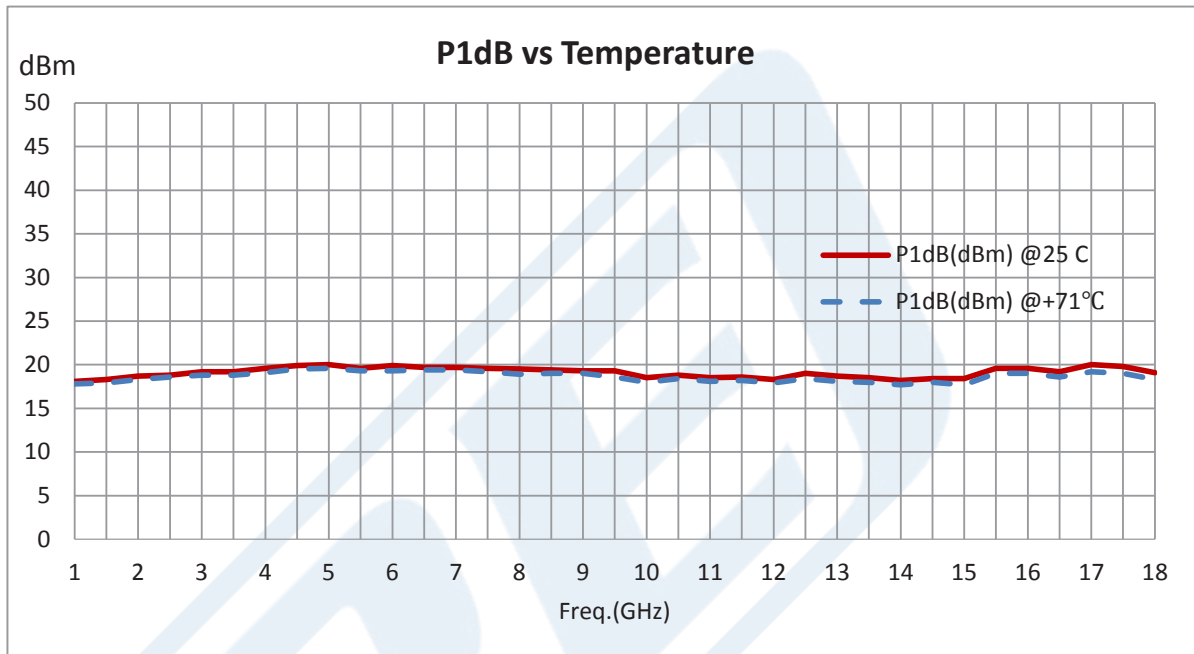
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20 dBm Psat, 1 GHz to 18 GHz, Medium Power Broadband Amplifier, 30 dB Gain, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and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

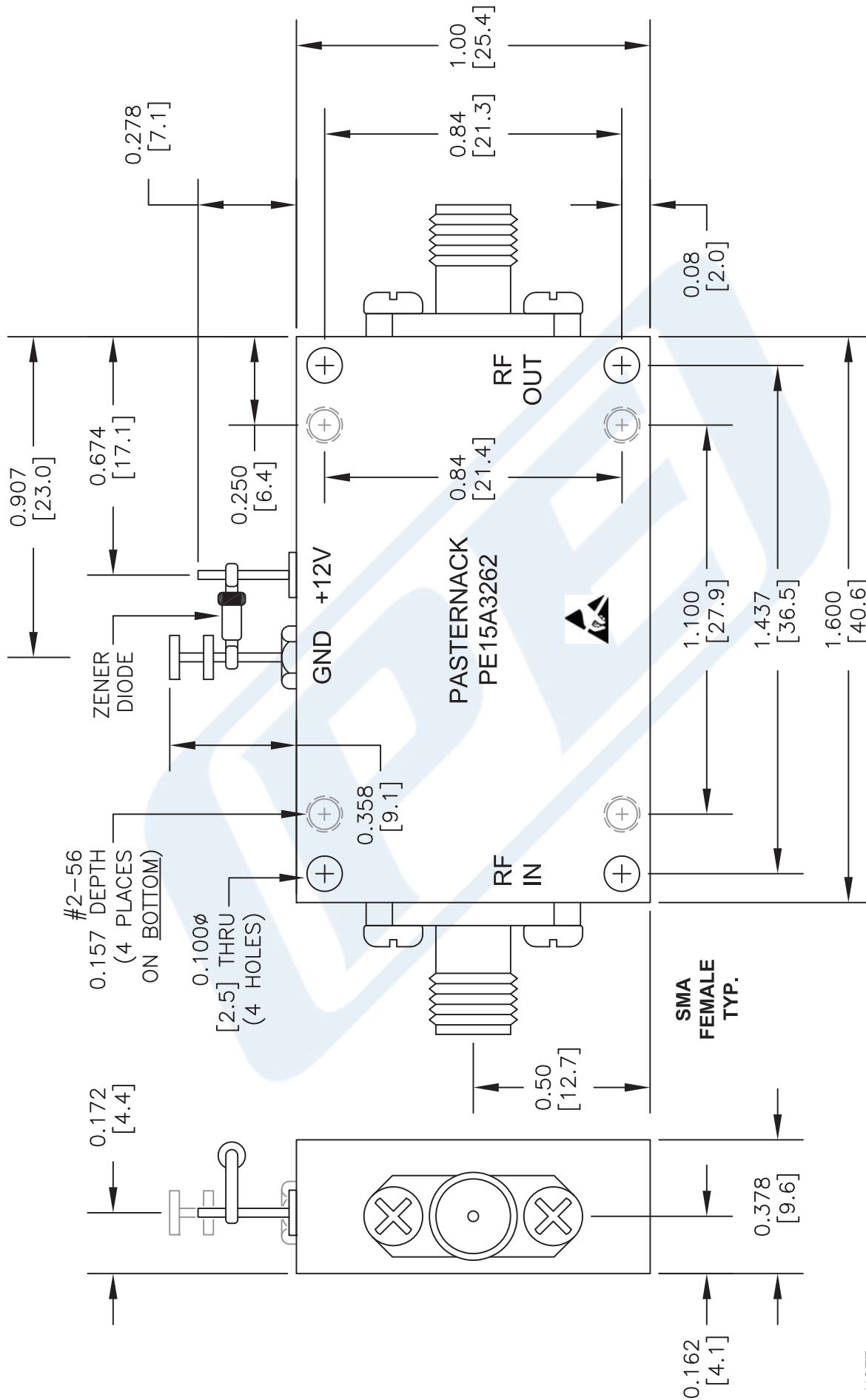
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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE

PE15A3262

FSCM NO. 53919

CAD FILE 120814

SIZE A

2233

2233

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THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | **Fax:** (949) 261-7455
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

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