



15 dBm P1dB, 500 MHz to 18 GHz, Medium Power  
Broadband Amplifier, 33 dB Gain, 4 dB NF, SMA

TECHNICAL DATA SHEET

PE15A3263

The PE15A3263 is a 15 dBm power amplifier designed for operation in the 0.5 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**

- 0.5 GHz to 18 GHz Frequency Range
- P1dB +15 dBm typ.
- 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                   | 0.5     |         | 18      | GHz   |
| Gain                              | 30      | 33      |         | dB    |
| Gain Flatness                     |         | ±1.5    |         | dB    |
| Output at 1 dB Compression Point  | +15     |         |         | dBm   |
| Noise Figure                      |         | 4       |         | dB    |
| Noise Figure at 0.5 to 2 GHz      |         |         | 5       | dB    |
| Noise Figure at 2 to 18 GHz       |         |         | 4       | dB    |
| Noise Figure at                   |         |         | 3.5     | dB    |
| Input VSWR                        |         | 2:1     |         |       |
| Output VSWR                       |         | 2:1     |         |       |
| Operating DC Voltage 1            | 11      | 12      | 13      | Volts |
| Operating DC Current              |         | 220     |         | mA    |
| Operating Temperature Range (OTR) | -40     |         | +70     | °C    |

**Mechanical Specifications**

|                  |                     |
|------------------|---------------------|
| <b>Size</b>      |                     |
| Length           | 1.093 in [27.76 mm] |
| Width            | 1.33 in [33.78 mm]  |
| Height           | 0.382 in [9.7 mm]   |
| Weight           | 0.077 lbs [34.93 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: [15 dBm P1dB, 500 MHz to 18 GHz, Medium Power Broadband Amplifier, 33 dB Gain, 4 dB NF, SMA PE15A3263](#)



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### Environmental Specifications

#### Temperature

Operating Range

-40 to +70 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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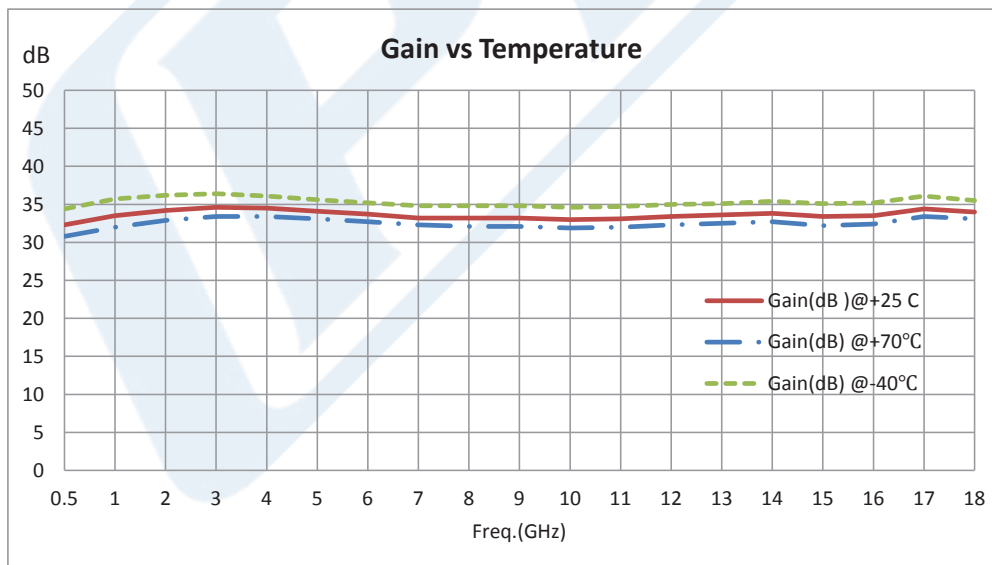
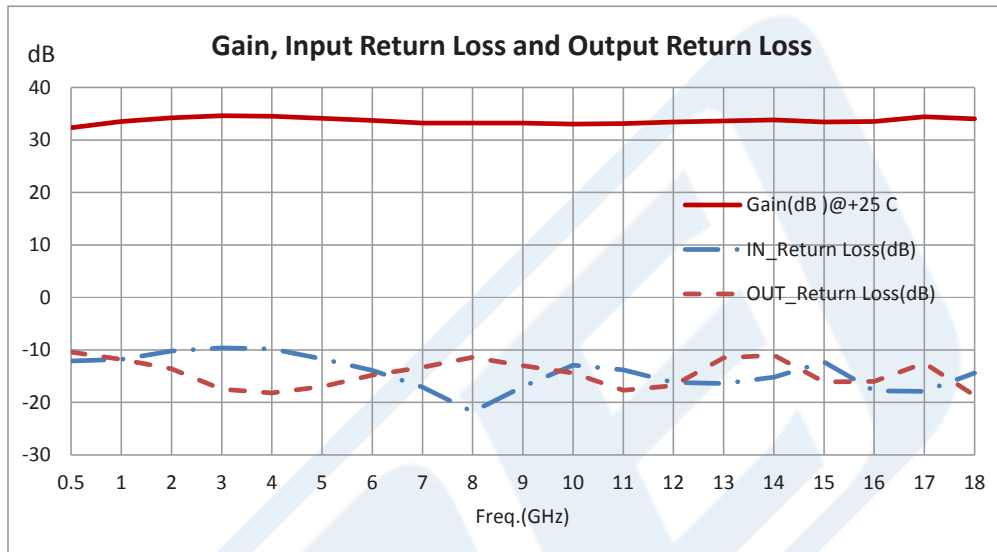


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### Typical Performance Data



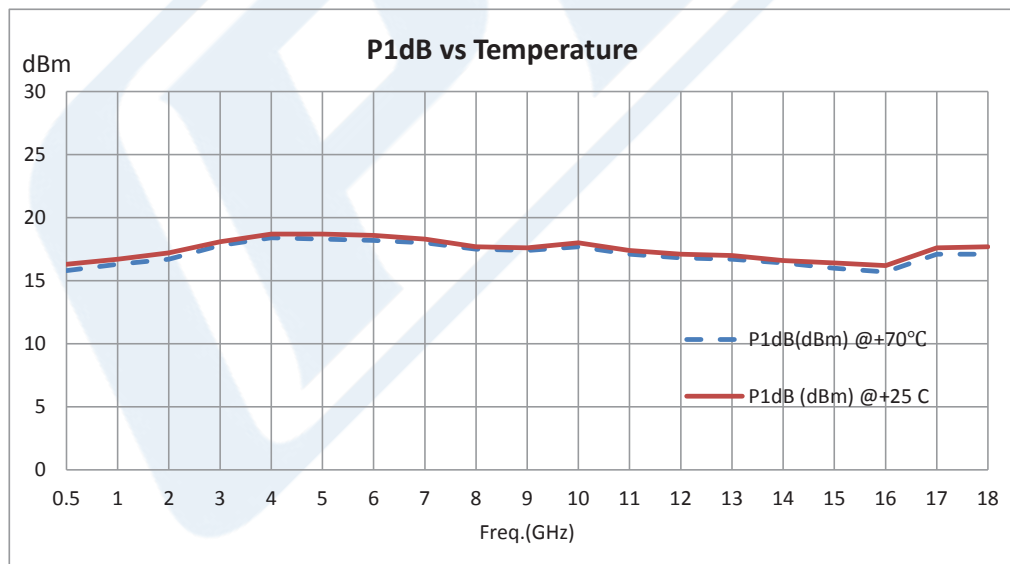
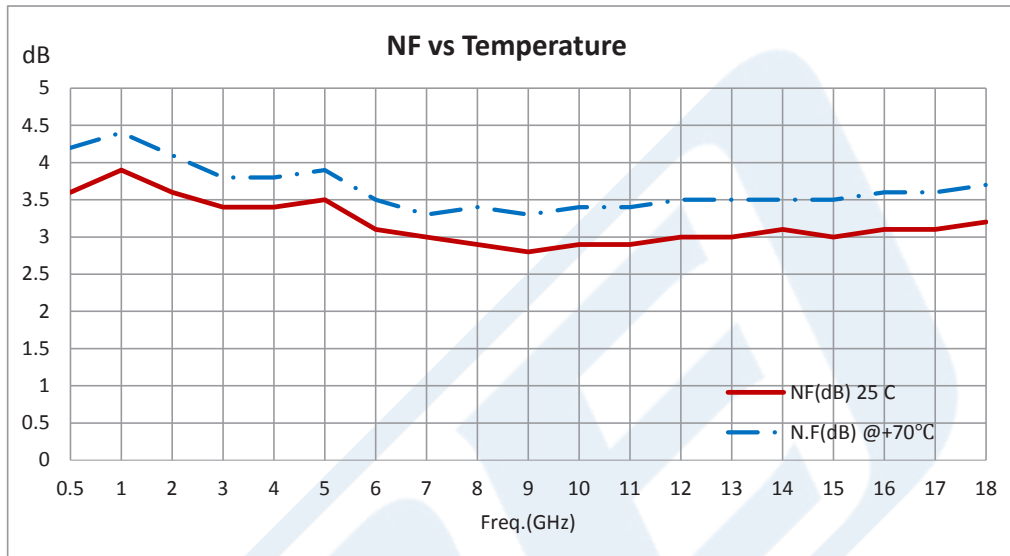
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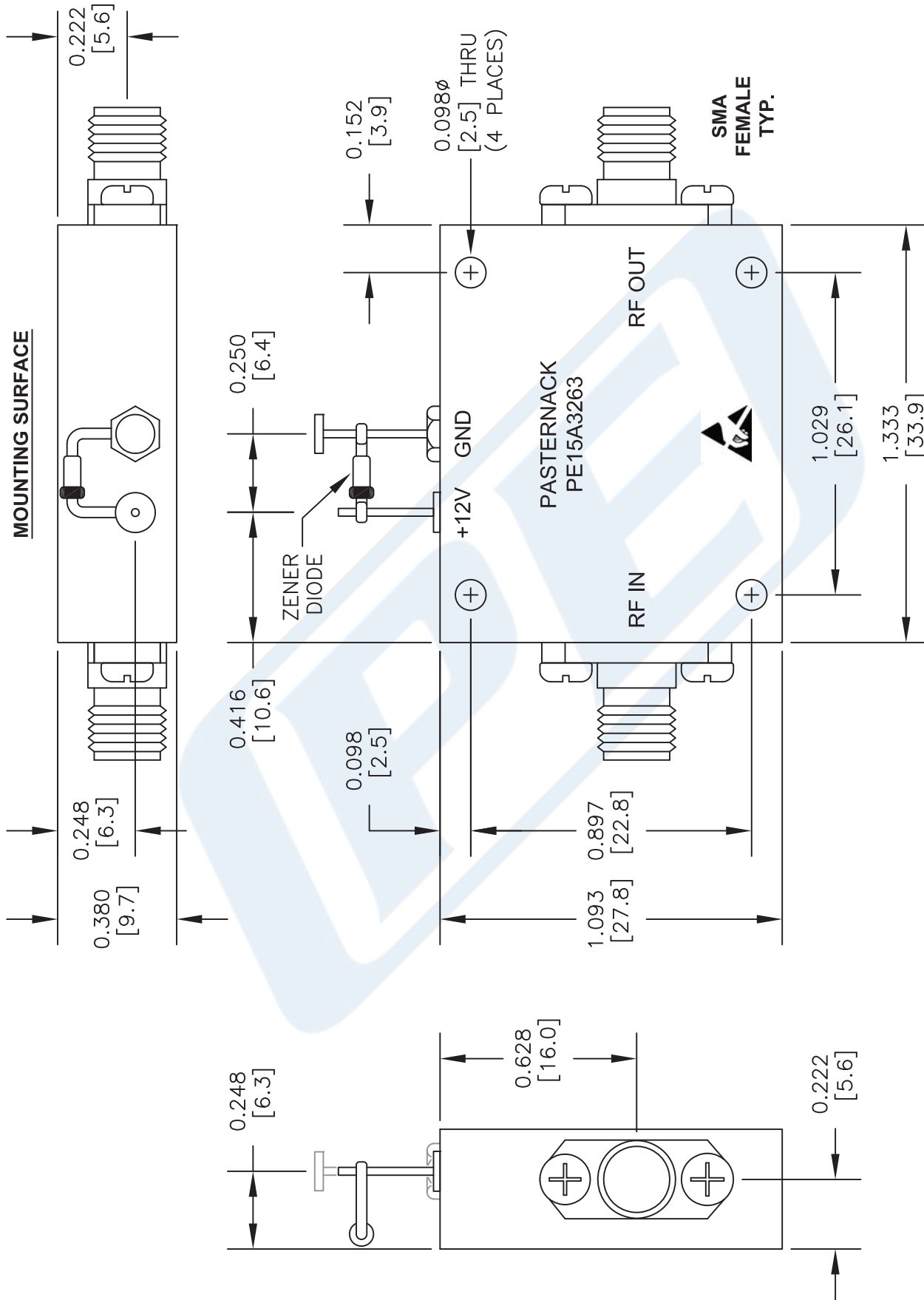
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

# PE15A3263 CAD Drawing

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DWG TITLE

**PE15A3263**

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 102914

SCALE N/A

SIZE A

2233