



5 dB NF, 15 dBm P1dB, 100 MHz to 26.5 GHz, Low Noise
 Broadband Amplifier, 15 dB Gain, 23 dBm IP3, SMA

TECHNICAL DATA SHEET

PE15A3267

The PE15A3267 is a broadband coaxial low noise amplifier, operating in the 0.1 to 26.5 GHz frequency range. The amplifier offers 15 dBm typical P1dB, and 15 dB typical small signal gain, ± 2.0 dB maximum gain flatness, along with +23 dBm typical IP3 performance. This low noise amplifier requires a single positive DC voltage supply, is unconditionally stable, operates over the temperature range of -40°C to $+85^{\circ}\text{C}$, and is hermetically sealed. The Input/Output connectors are SMA Female.

Features

- 0.1 to 26.5 GHz Frequency Range
- P1dB: 15 dBm
- Small Signal Gain: 15 dB typ
- Gain Flatness: ± 2.0 dB max
- IP3: +23 dBm typ
- Noise Figure: 5 dB typ
- 50 Ohm Input and Output Matched
- -40 to $+85^{\circ}\text{C}$ Operating Temperature
- Unconditionally Stable
- Single DC Positive Voltage Supply
- Built-in DC Voltage Regulator
- Input/Output SMA Female Connectors

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 = $+25^{\circ}\text{C}$, DC Voltage = 15Volts, DC Current = 200mA)

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.1		26.5	GHz
Gain	13	15		dB
Gain Flatness			± 2	dB
Output at 1 dB Compression Point	+15			dBm
Input Power			+13	dBm
Output 3 rd Intercept Point		+23		dBm
Noise Figure (> 500 MHz)		5	5.5	dB
Input VSWR		2.2:1		
Output VSWR		2.2:1		
Operating DC Voltage	12		15	Volts
Operating DC Current		200		mA
Operating Temperature Range (OTR)	-40		+85	$^{\circ}\text{C}$

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [5 dB NF, 15 dBm P1dB, 100 MHz to 26.5 GHz, Low Noise Broadband Amplifier, 15 dB Gain, 23 dBm IP3, SMA PE15A3267](#)



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Mechanical Specifications

Size

Length	0.9 in [22.86 mm]
Width	1.05 in [26.67 mm]
Height	0.38 in [9.65 mm]
Weight	0.055 lbs [24.95 g]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-54 to +85 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant	
REACH Compliant	12/17/2014

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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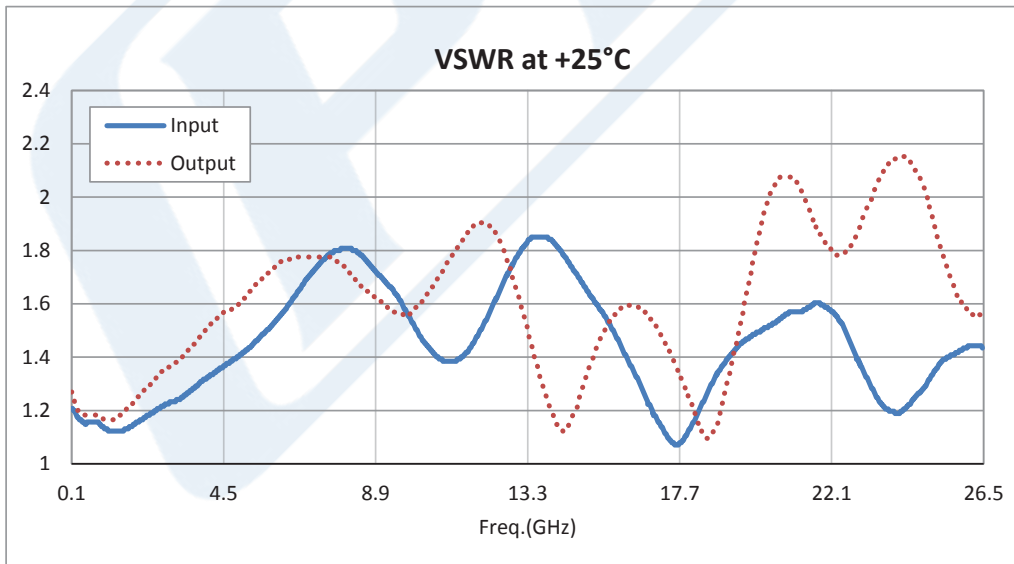
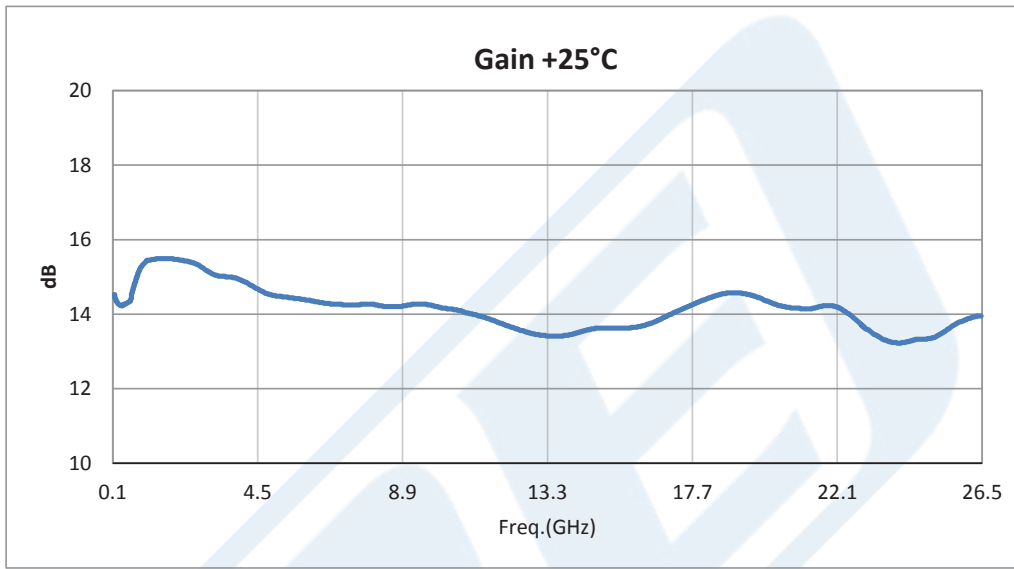


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Typical Performance Data



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5 dB NF, 15 dBm P1dB, 100 MHz to 26.5 GHz, Low Noise Broadband Amplifier, 15 dB Gain, 23 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% availability and are part of the broadest selection in the industry.

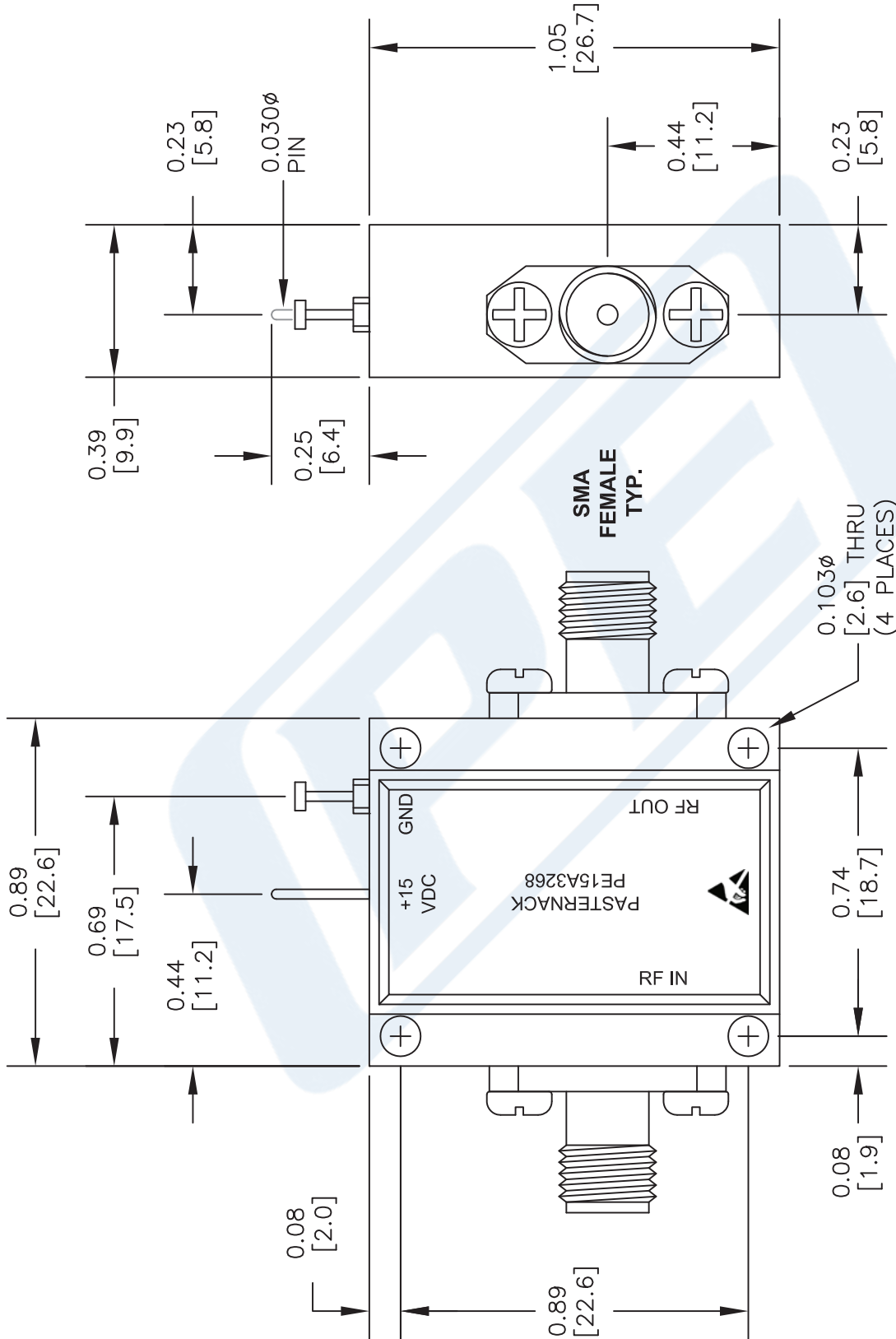
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE15A3267 CAD Drawing

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



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DWG TITLE

PE15A3267

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].

FSCM NO. 53919

CAD FILE 080614

SCALE N/A

SIZE A

150