PASTERNACK
an INFINITE brand

2.3 dB NF, 11 dBm P1dB, 18 GHz to 26.5 GHz, Low Noise Broadband Amplifier, 32 dB Gain, SMA

TECHNICAL DATA SHEET PE15A3303

The PE15A3303 is a broadband coaxial Low Noise amplifier, operating in the 18 to 26.5 GHz frequency range. This offers exceptional typical performance that includes 32 dB gain, 2.3 dB noise figure, and +11 dBm output P1dB. This technical performance is achieved through the use of thin film technology with advanced GaAs devices. The low noise amplifier requires a +12V DC power supply with internal voltage regulation and operates over a temperature range of 0°C to +50°C. The drop-in package supports field replaceable SMA connectors and is highly reliable and guranteed to meet MIL-STD-202 environmental test conditions for humidity, shock, vibration, and altitude.

Features

- 18 to 26.5 GHz Frequency Range
- P1dB: 11dBm typ.
- Small Signal Gain: 32 dB min.
- Gain Flatness: ±2.5 dB max.
- 50 Ohm Input and Output Matched
- 0 to 50°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Field Replaceable SMA Female
- Internal Voltage Regulation

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°C, VDC1 = 12 Vdc)

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
Gain	30	32		dB
Gain Flatness			±2.5	dB
Output at 1 dB Compression Point	+10	+11		dBm
Input Power			+0	dBm
Noise Figure		2.3	3	dB
Input VSWR		1.8:1	2.2:1	
Output VSWR		2:1	2.5:1	
Operating DC Voltage 1		12	16	Volts
Operating DC Current		250		mA
Operating Temperature Range (OTR)	0		+50	°C

Electrical Specification Notes:
No Series Capacitor at RF input. DC Voltage at RF Input may damage amplifier. Heatsink is required before applying DC power

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2.3 dB NF, 11 dBm P1dB, 18 GHz to 26.5 GHz, Low Noise Broadband Amplifier, 32 dB Gain, SMA PE15A3303

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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Mechanical Specifications

Size

Length	0.53 in [13.46 mm]
Width	0.7 in [17.78 mm]
Height	0.3 in [7.62 mm]
Connector Option	Field Replaceable
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature

Operating Range	0 to +50 deg C
Storage Range	-40 to +100 deg C
Humidity	MIL-STD-202F, Method 103B, Condition B
Shock	MIL-STD-202F, Method 213B, Condition B
Vibration	MIL-STD-202F, Method 204D, Condition B
Altitude	MIL-STD-202F, Method 105C, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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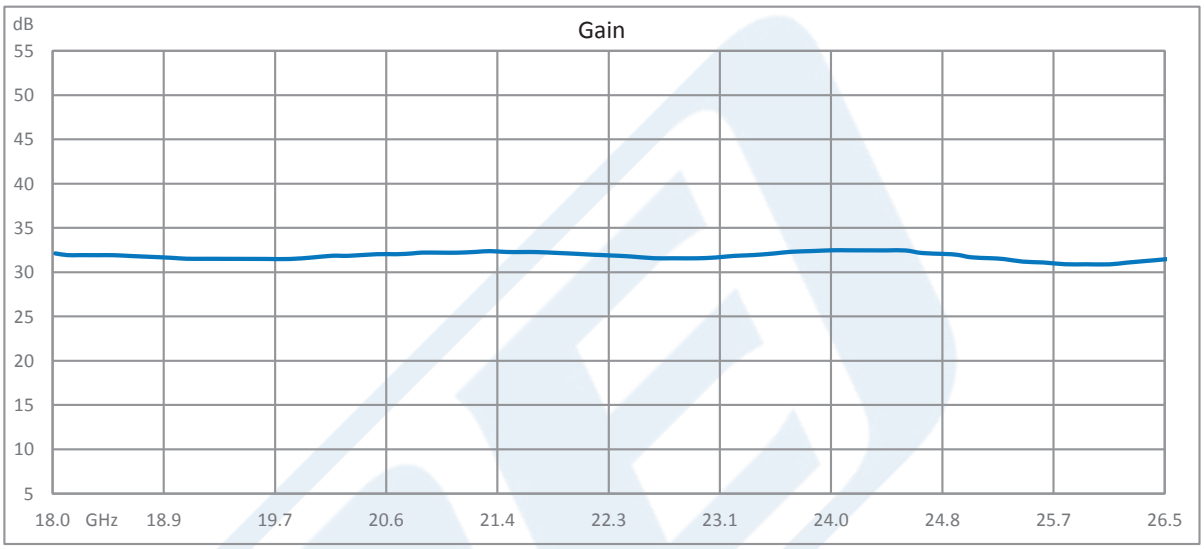
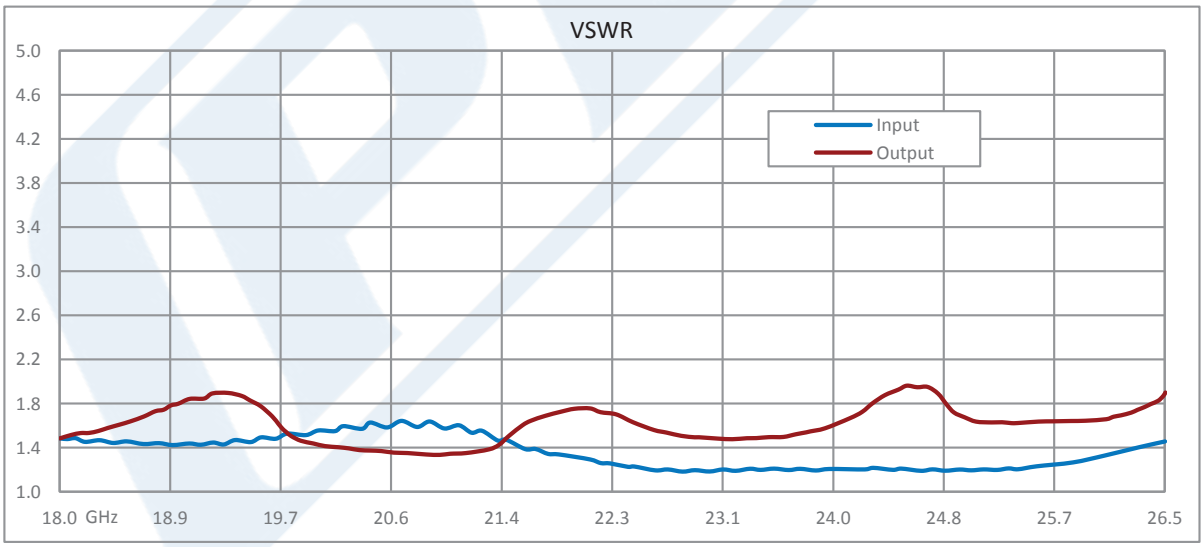
Typical Performance Data





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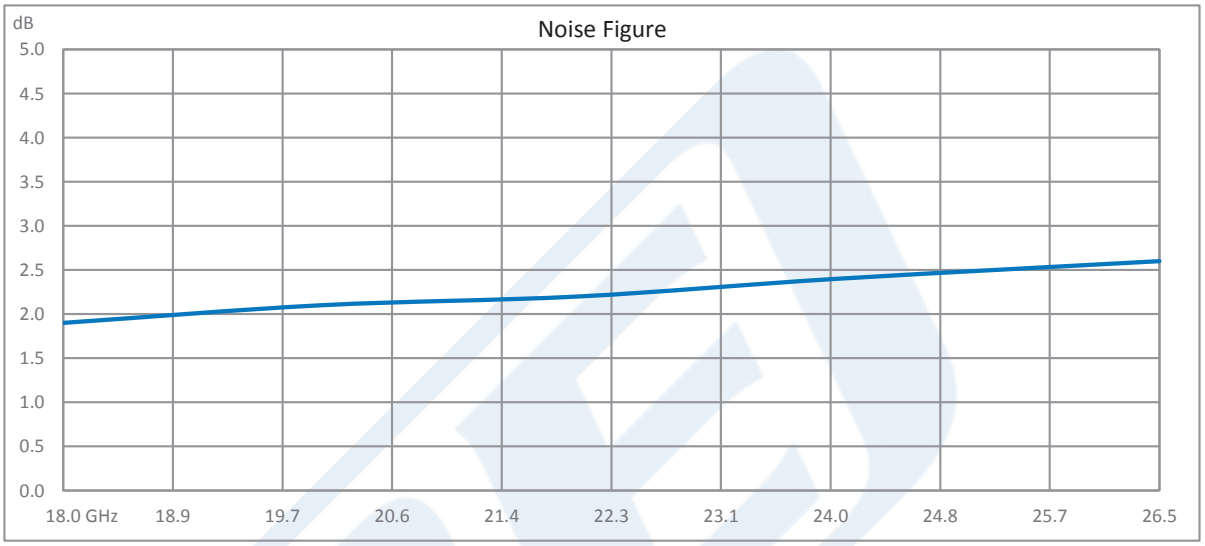

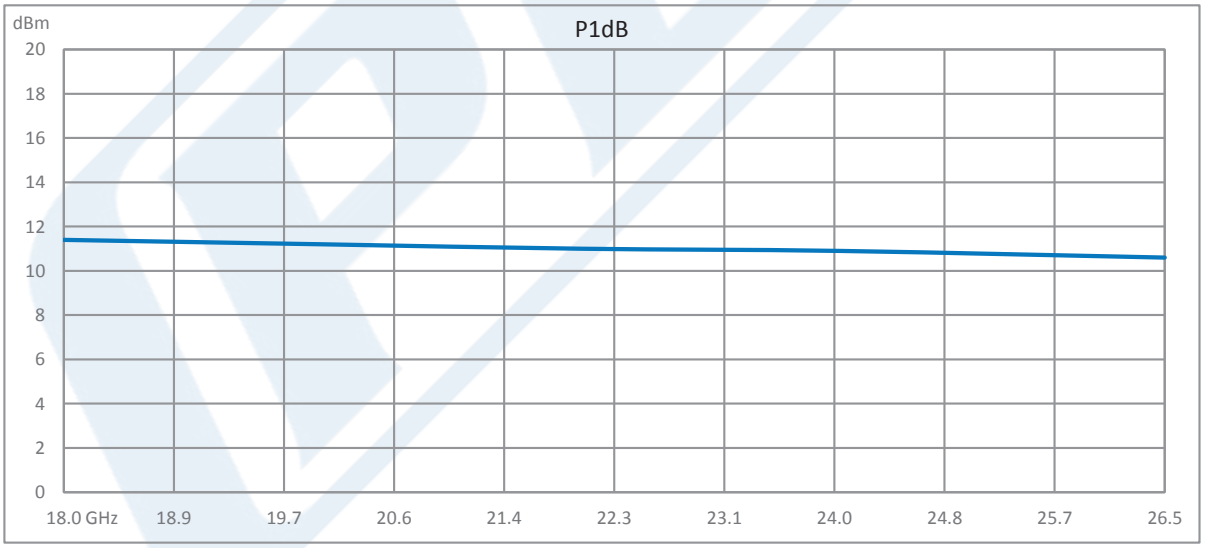

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URL: https://www.pasternack.com/2.3-db-26.5-ghz-low-noise-broadband-amplifier-32-db-gain-sma-pe15a3303-p.aspx

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PE15A3303 CAD Drawing

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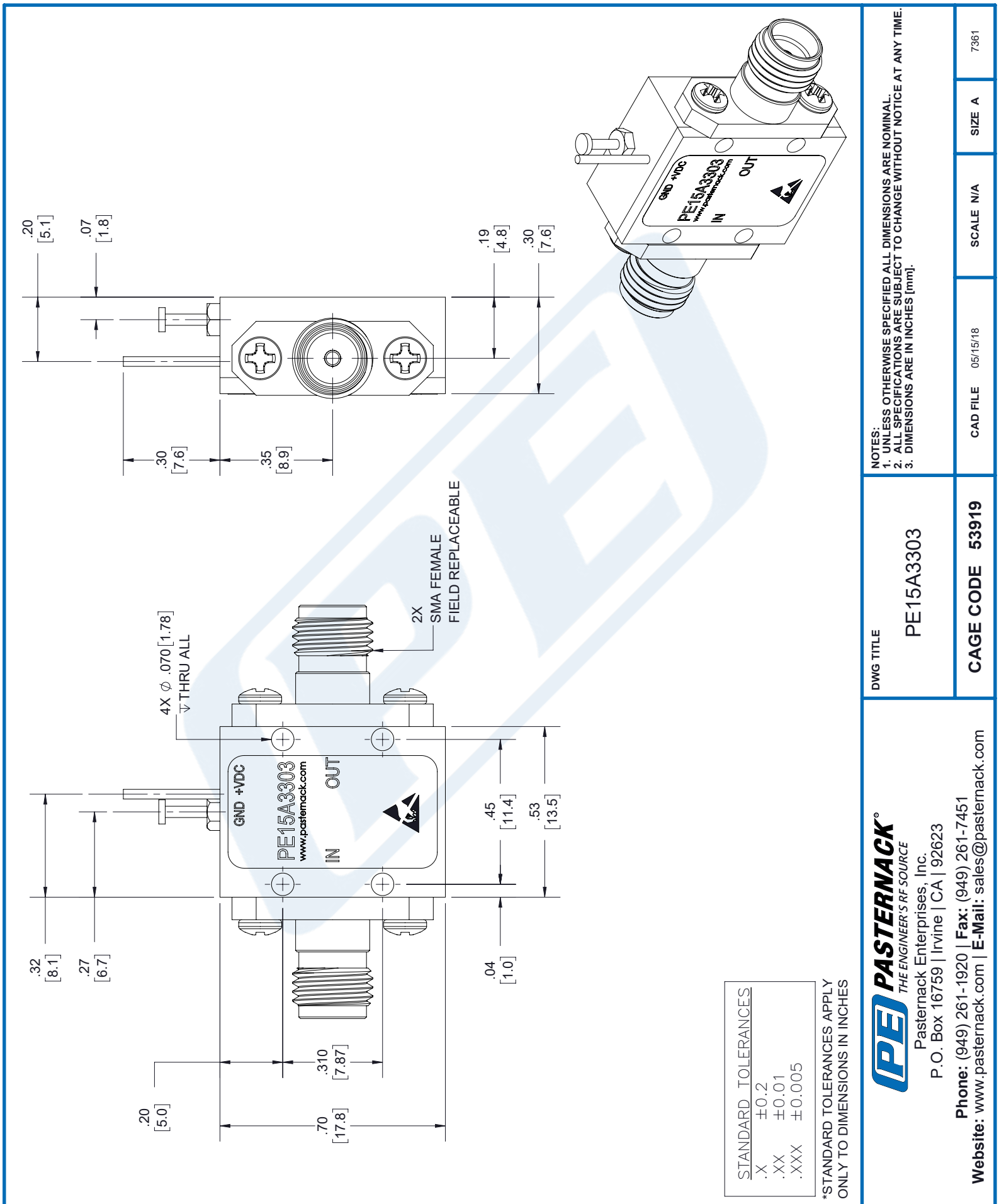

STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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: PE15A3303

CAD FILE 05/15/18 | SCALE N/A | SIZE A | 7361

CAGE CODE 53919

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