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52 dB Gain, 3.3 dB NF, 12 dBm P1dB, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier, 2.92mm

TECHNICAL DATA SHEET

The PE15A3307 is a broadband coaxial Low Noise amplifier, operating in the 26.5 to 40 GHz frequency range. This amplifier offers exceptional typical performance that includes 52 dB gain, 3.3 dB noise figure, and +12 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

- 26.5 to 40 GHz Frequency Range
- P1dB: 12 dBm typ.
- Small Signal Gain: 52 dB typ.
- Gain Flatness: ±3.5 dB max.
- 50 Ohm Input and Output Matched

Applications

- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Military & Space

- 0 to 50°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Field Replaceable 2.92mm Female
- Internal Voltage Regulation
 - 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	26.5		40	GHz
Gain	50	52		dB
Gain Flatness			±3.5	dB
Output at 1 dB Compression Point	+10	+12		dBm
Input Power			-20	dBm
Noise Figure		3.3	4	dB
Input VSWR		1.8:1	2.5:1	
Output VSWR		1.8:1	2.5:1	
Operating DC Voltage 1		12	16	Volts
Operating DC Current		375		mA
Operating Temperature Range (OTR)	0		+50	°C

Communication Systems

Satellite Communications

Unmanned Systems

Wireless Communications

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: 52 dB Gain, 3.3 dB NF, 12 dBm P1dB, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier, 2.92mm PE15A3307

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 Width Height

Connector Option Input Connector Output Connector 0.75 in [19.05 mm] 0.7 in [17.78 mm] 0.3 in [7.62 mm] Field Replaceable

2.92mm Female 2.92mm Female

Environmental Specifications

Temperature Operating Range Storage Range

Humidity Shock Vibration Altitude 0 to +50 deg C -40 to +100 deg C

MIL-STD-202F, Method 103B, Condition B MIL-STD-202F, Method 213B, Condition B MIL-STD-202F, Method 204D, Condition B MIL-STD-202F, Method 105C, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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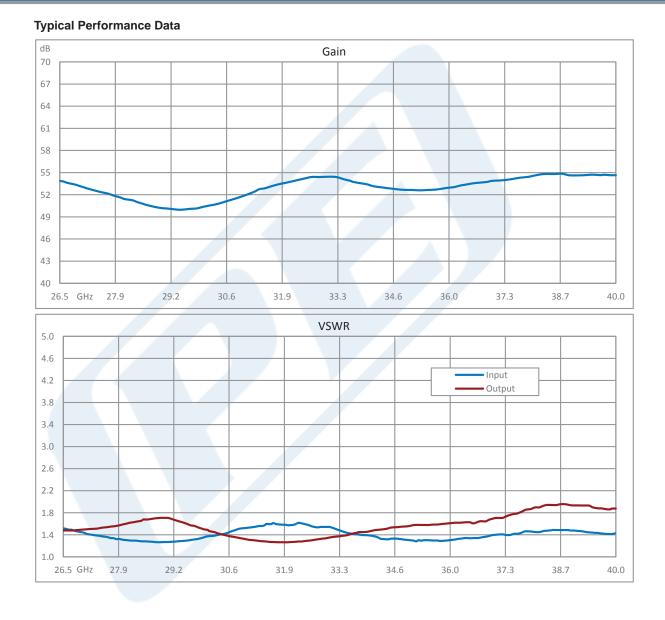




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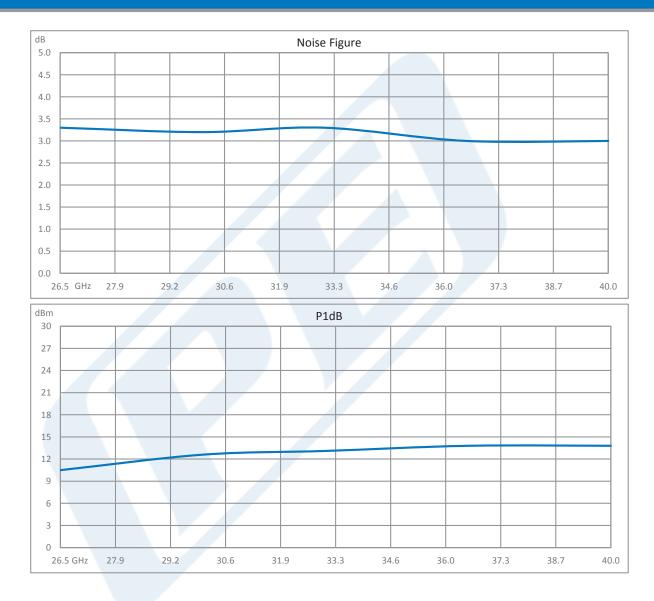




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52 dB Gain, 3.3 dB NF, 12 dBm P1dB, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier, 2.92mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/52-db-gain-3.3-db-40-ghz-low-noise-broadband-amplifier-2.92mm-pe15a3307-p.aspx

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PE15A3307 CAD Drawing 52 dB Gain, 3.3 dB NF, 12 dBm P1dB, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier, 2.92mm

