



40 dB Gain, 22 dBm P1dB, 1 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 120 VAC, 5 dB NF, 2.92mm

TECHNICAL DATA SHEET

PE15A3595

The PE15A3595 is a Portable Amplifier that operates over the 1.0 to 40.0 GHz Frequency Range. The amplifier has a typical gain of 40 dB and a P1dB of +22 dBm minimum. The amplifier has an On/Off switch that is located on the Front Panel. Input/Output Connectors are 2.92mm. The amplifier comes with a fuse and a 6 foot power cord. The amplifier can operate on either 120VAC or via an external 12VDC Battery Pack or Supply. The rugged package is designed to meet a series of MIL-STD-202F environmental conditions including Humidity, Shock, Vibration, and Temperature Cycle.

Features

- 1.0 to 40.0 GHz Frequency Range
- Gain of 40 dB typ
- 120VAC
- On/Off Switch on Front Panel
- Gain Flatness of ± 3.0 dB max
- P1dB of +22 dBm
- Input/Output Connectors 2.92mm Female
- AC or DC Supply operation
- MIL-SPEC Compliant
- CE Approved

Applications

- Test and Measurement
- General Purpose Broadband High Gain Amplifier
- Lab Test Amplifier
- Portable Broadband Amplifier

Electrical Specifications (TA= 25°C)

Description	Minimum	Typical	Maximum	Units
Frequency Range	1		40	GHz
Gain		40		dB
Gain Flatness		± 2.5		dB
Output at 1 dB Compression Point	+22			dBm
Output at 1 dB Compression Point at 1 to 18 GHz		+22		dBm
Output at 1 dB Compression Point at 18 to 40 GHz		+18		dBm
Input Power			+15	dBm
Noise Figure (Mid-Band)		5		dB
Input VSWR		2.5:1		
Output VSWR		2.5:1		
Operating DC Voltage 1 (External)			12	Volts
(External) Operating AC Voltage		120, 60 Hz		VAC
Operating Temperature Range (OTR)	-40		+85	°C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [40 dB Gain, 22 dBm P1dB, 1 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 120 VAC, 5 dB NF, 2.92mm PE15A3595](#)



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Mechanical Specifications

Size

Length	4.92 in [124.97 mm]
Width	4.92 in [124.97 mm]
Height	2.1 in [53.34 mm]
Weight	2.734 lbs [1.24 kg]
Input Connector	2.92mm Female
Output Connector	2.92mm Female

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-40 to +100 deg C

Humidity	MIL-STD-202F, Method 103B COND. B
Shock	MIL-STD-202F, Method 213B COND. B
Vibration	MIL-STD-202F, Method 204D COND. B
Altitude	MIL-STD-202F, Method 105C COND. B
Temperature Cycling	MIL-STD-202F, Method 107D COND. A

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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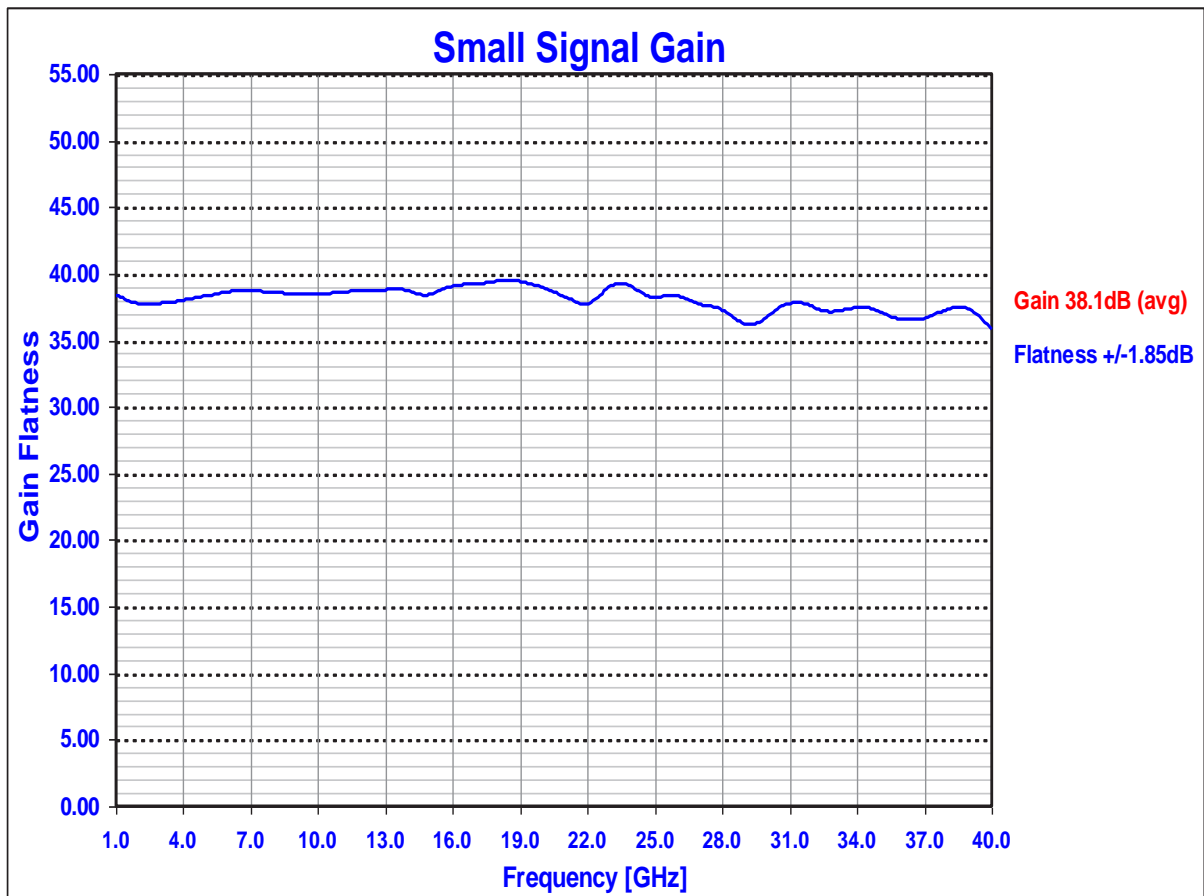


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Typical Performance Data



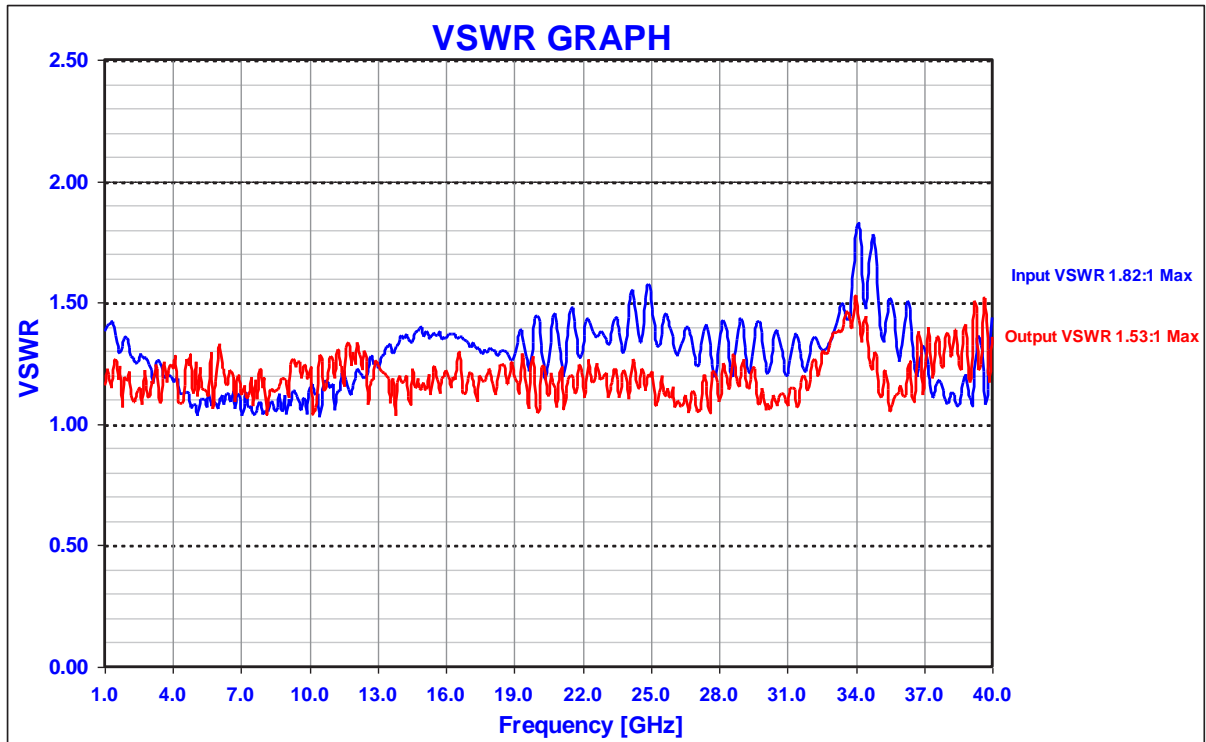
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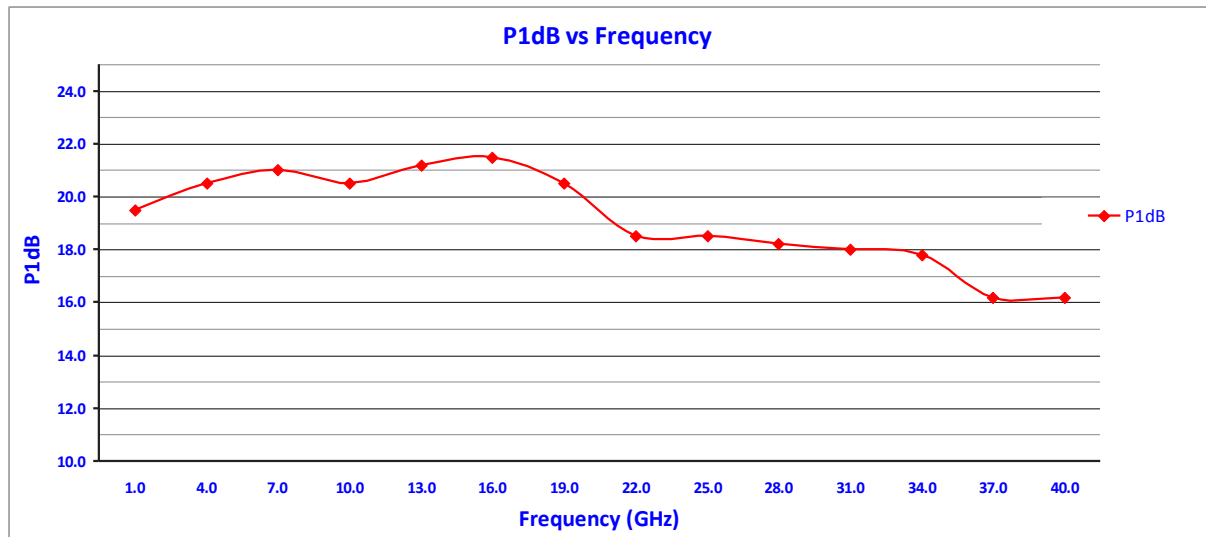
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40 dB Gain, 22 dBm P1dB, 1 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 120 VAC, 5 dB NF, 2.92mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

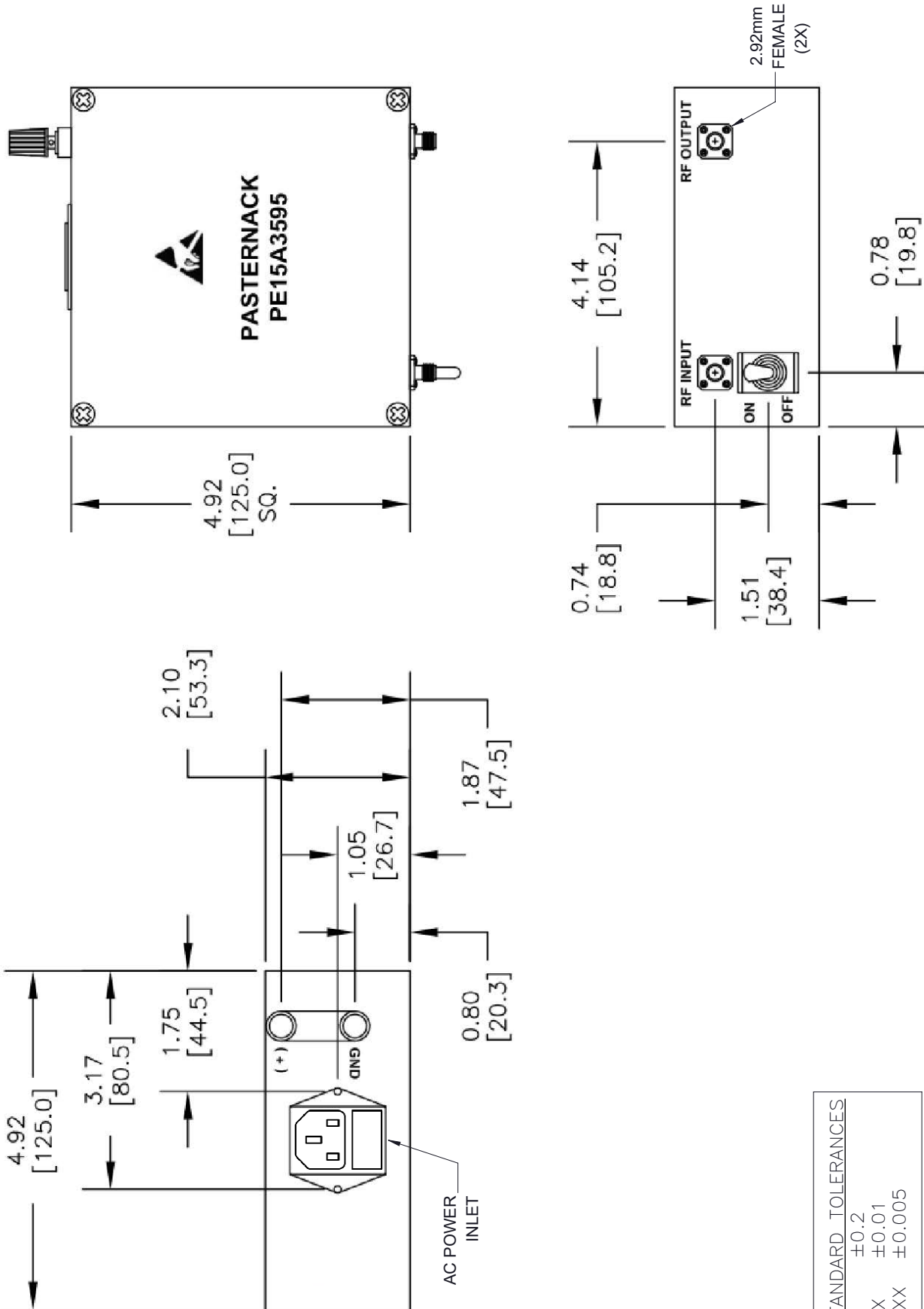
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE15A3595 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



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DWG TITLE

PE15A3595

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].

CAGE CODE 53919

CAD FILE 120517

SCALE N/A

SIZE A

7361