



60 dB Gain, 10 dBm P1dB, 1 GHz to 20 GHz, Broadband
High Gain Amplifier, Bench-Top, 220 VAC, 5 dB NF, SMA

TECHNICAL DATA SHEET

PE15A3513

The PE15A3513 is a Portable Amplifier that operates over the 1.0 to 20.0 GHz Frequency Range. The amplifier has a typical gain of 60 dB and a P1dB of +10 dBm minimum. The amplifier has an On/Off switch that is located on the Front Panel. Input/Output Connectors are SMA Female. The amplifier comes with a fuse and a 6 foot power cord. 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 20.0 GHz Frequency Range
- Gain of 60 dB typ
- 220VAC
- On/Off Switch on Front Panel
- Gain Flatness of ± 3.0 dB typ
- P1dB of +10 dBm
- Input/Output Connectors SMA Female.
- 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		20	GHz
Gain		60		dB
Gain Flatness		± 3		dB
Output at 1 dB Compression Point	+10			dBm
Noise Figure (Only Measured to 26.5 GHz)			5	dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating AC Voltage		220		VAC
Operating Temperature Range (OTR)	-40		+85	°C

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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	2.801 lbs [1.27 kg]
Input Connector	SMA Female
Output Connector	SMA 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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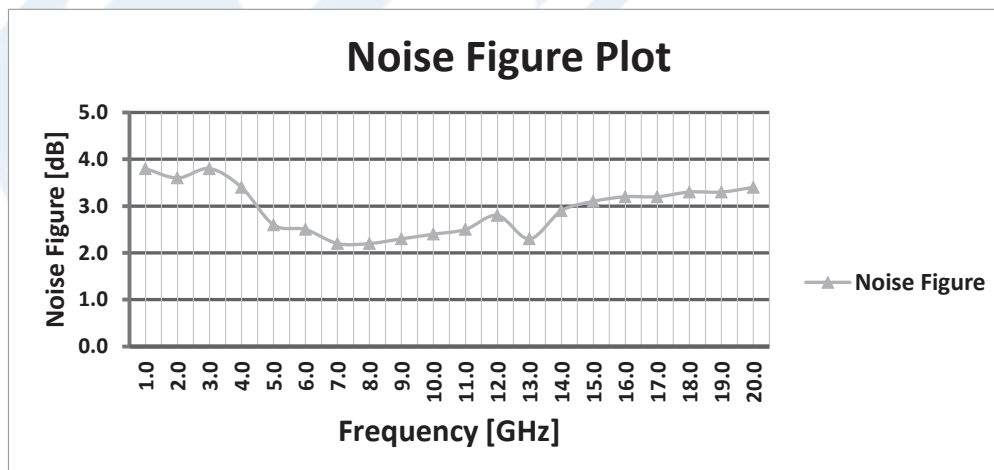
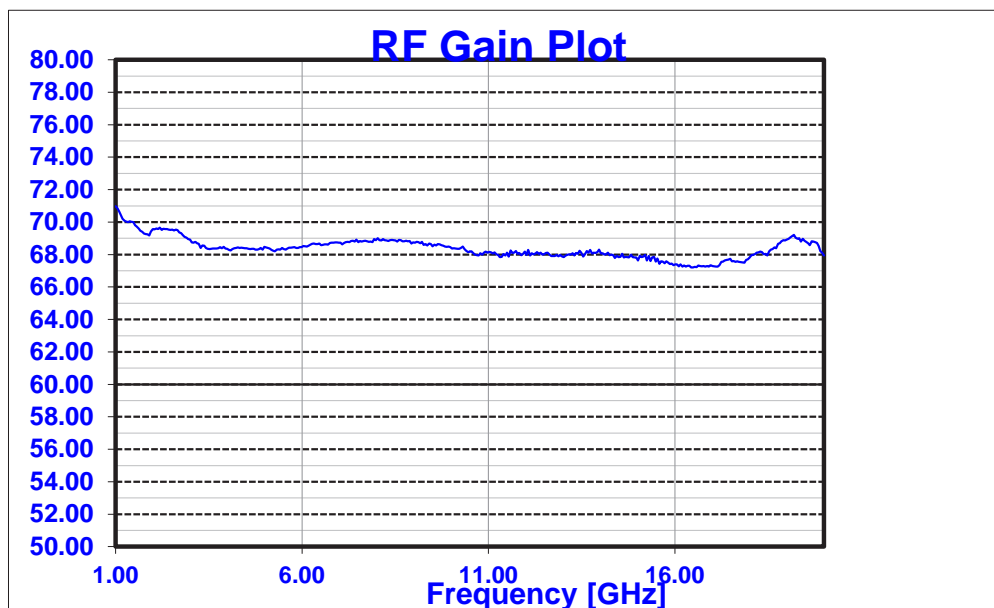


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Typical Performance Data



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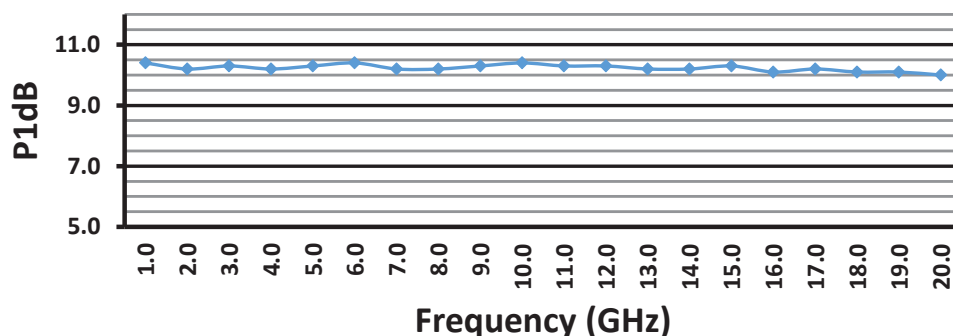


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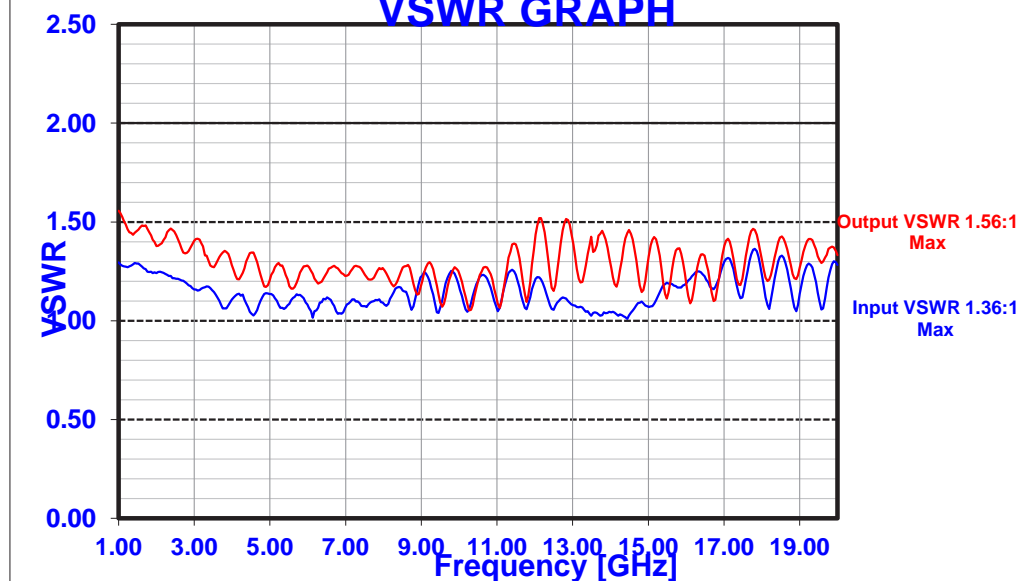
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P1dB vs Frequency



VSWR GRAPH



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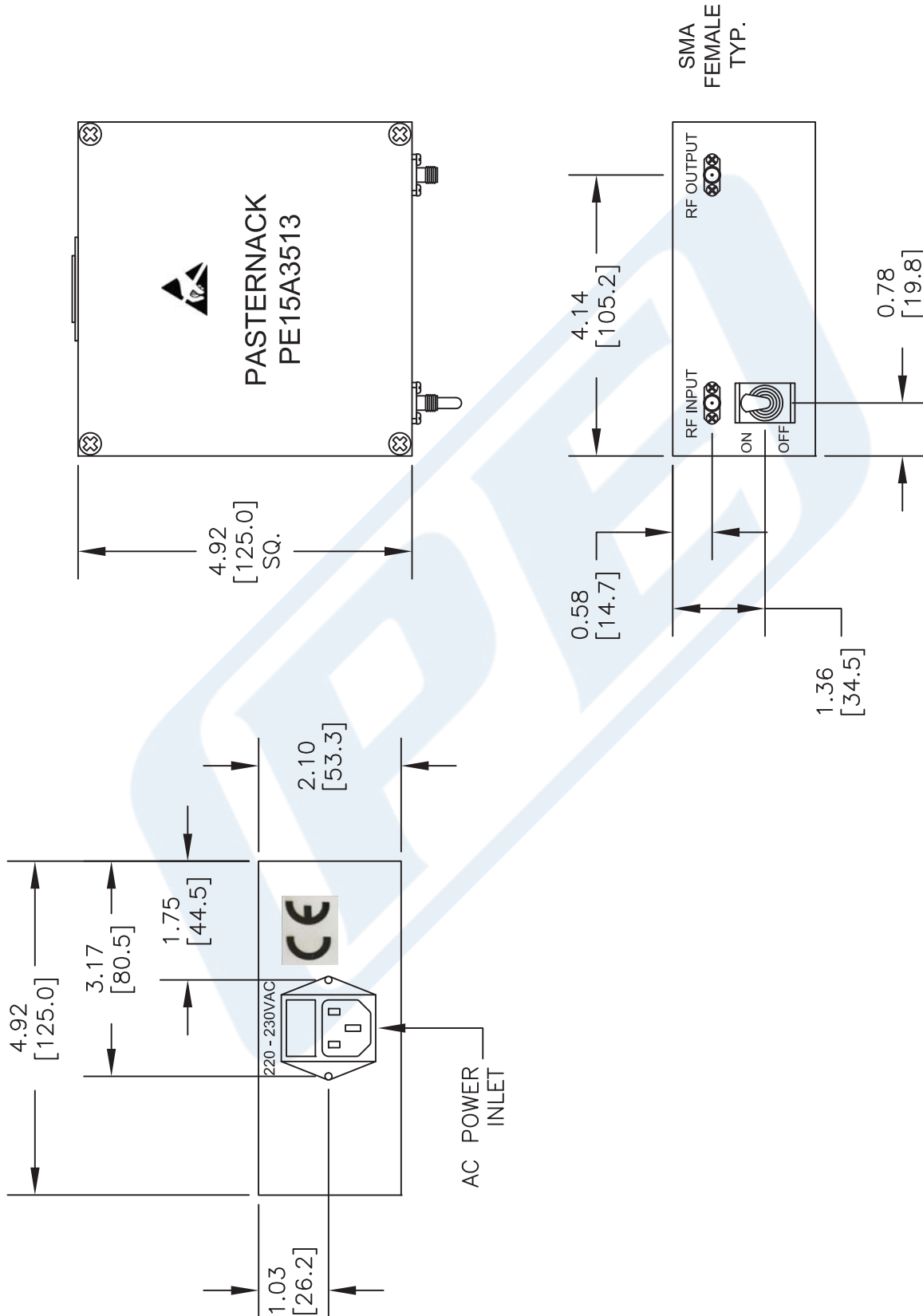
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE15A3513 CAD Drawing

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DWG TITLE

PE15A3513

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 040715

SCALE N/A

SIZE A

2233