



60 dB Gain, 10 dBm P1dB, 1 GHz to 20 GHz,
Broadband High Gain Amplifier, 5 dB NF, SMA

TECHNICAL DATA SHEET

PE15A3500

The PE15A3500 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.

Features

- 1.0 to 20.0 GHz Frequency Range
- Gain of 60 dB typ
- On/Off Switch on Front Panel
- Gain Flatness of ± 3.0 dB typ
- P1dB of +10 dBm
- Input/Output Connectors SMA Female.

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 | | | 5 | dB |
| Input VSWR | | | 2:1 | |
| Output VSWR | | | 2:1 | |
| Operating AC Voltage (Supplied with a fuse and 6 foot power cord) | | 115, 60 Hz | | VAC |
| Operating Temperature Range (OTR) | -40 | | +85 | °C |

Mechanical Specifications

| | |
|------------------|---------------------|
| Size | |
| Length | 4.92 in [124.97 mm] |
| Width | 4.92 in [124.97 mm] |
| Height | 2.1 in [53.34 mm] |
| Input Connector | SMA |
| Output Connector | SMA |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [60 dB Gain, 10 dBm P1dB, 1 GHz to 20 GHz, Broadband High Gain Amplifier, 5 dB NF, SMA PE15A3500](#)

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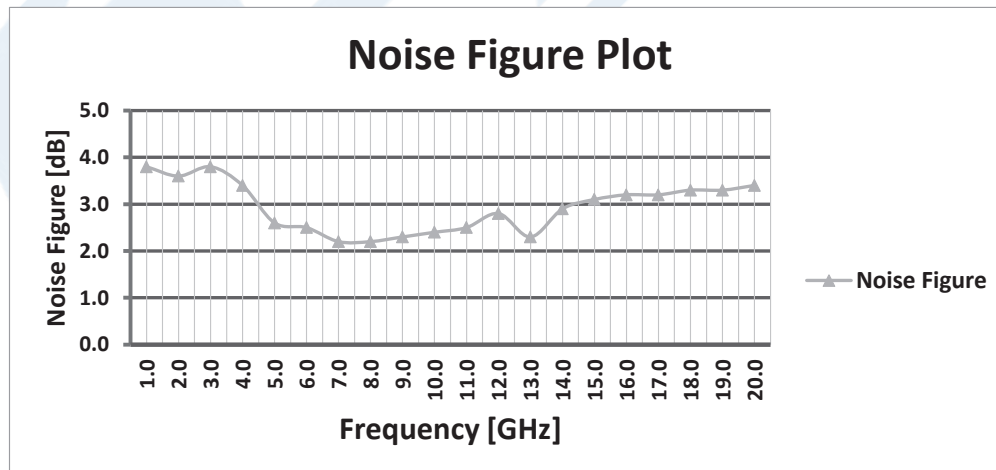
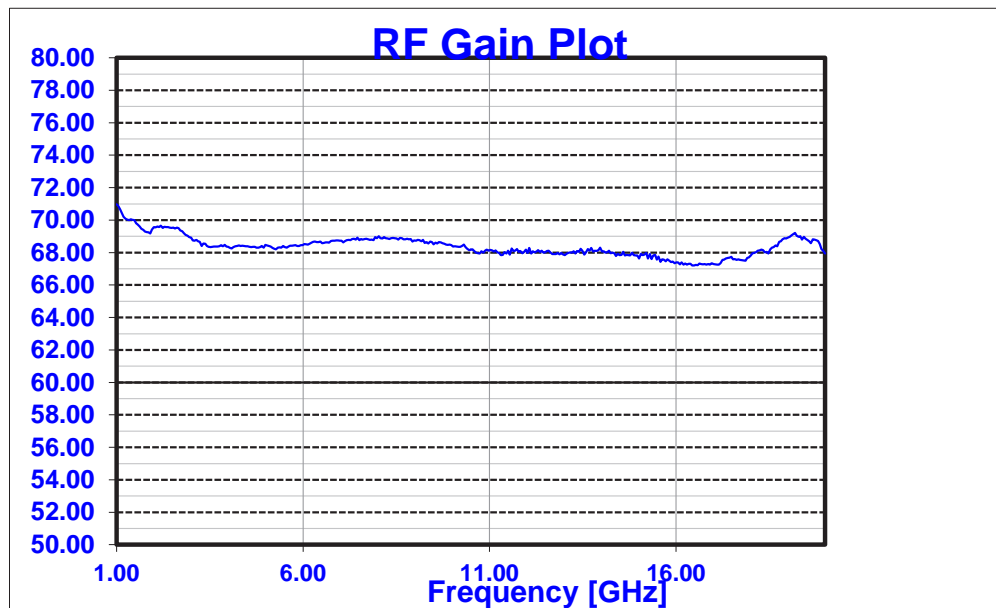


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Typical Performance Data



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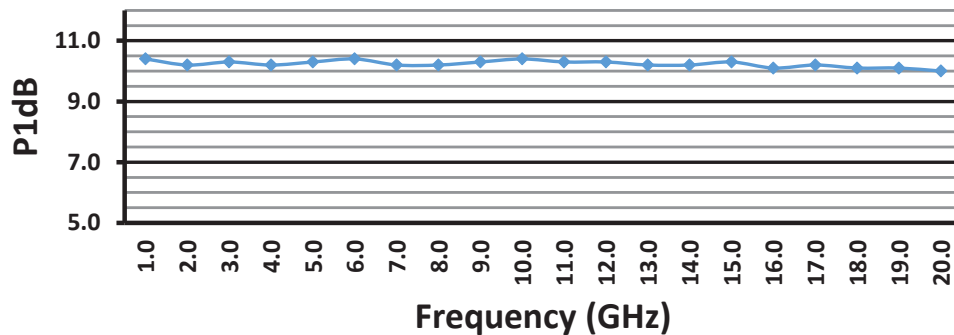


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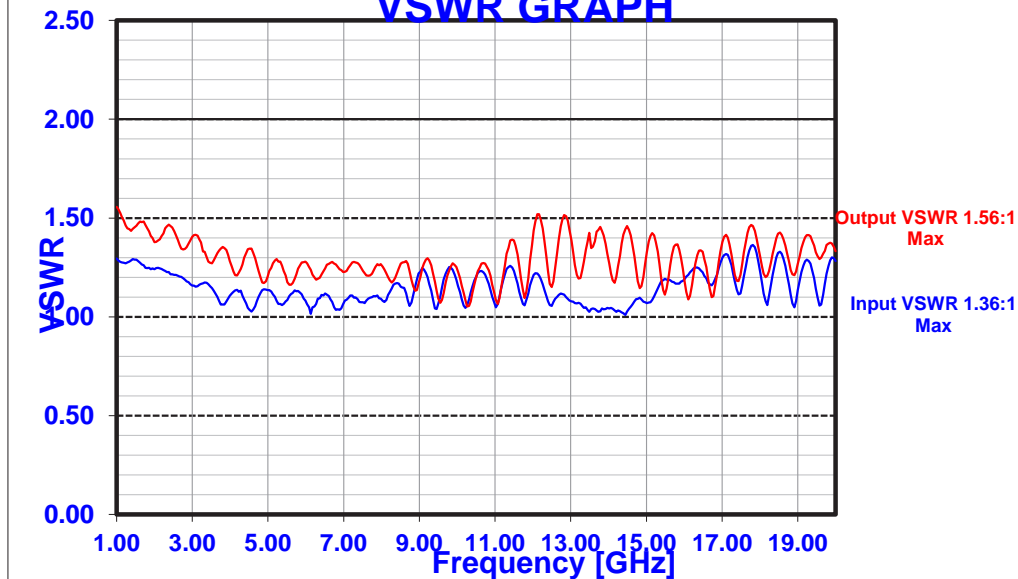
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P1dB vs Frequency



VSWR GRAPH



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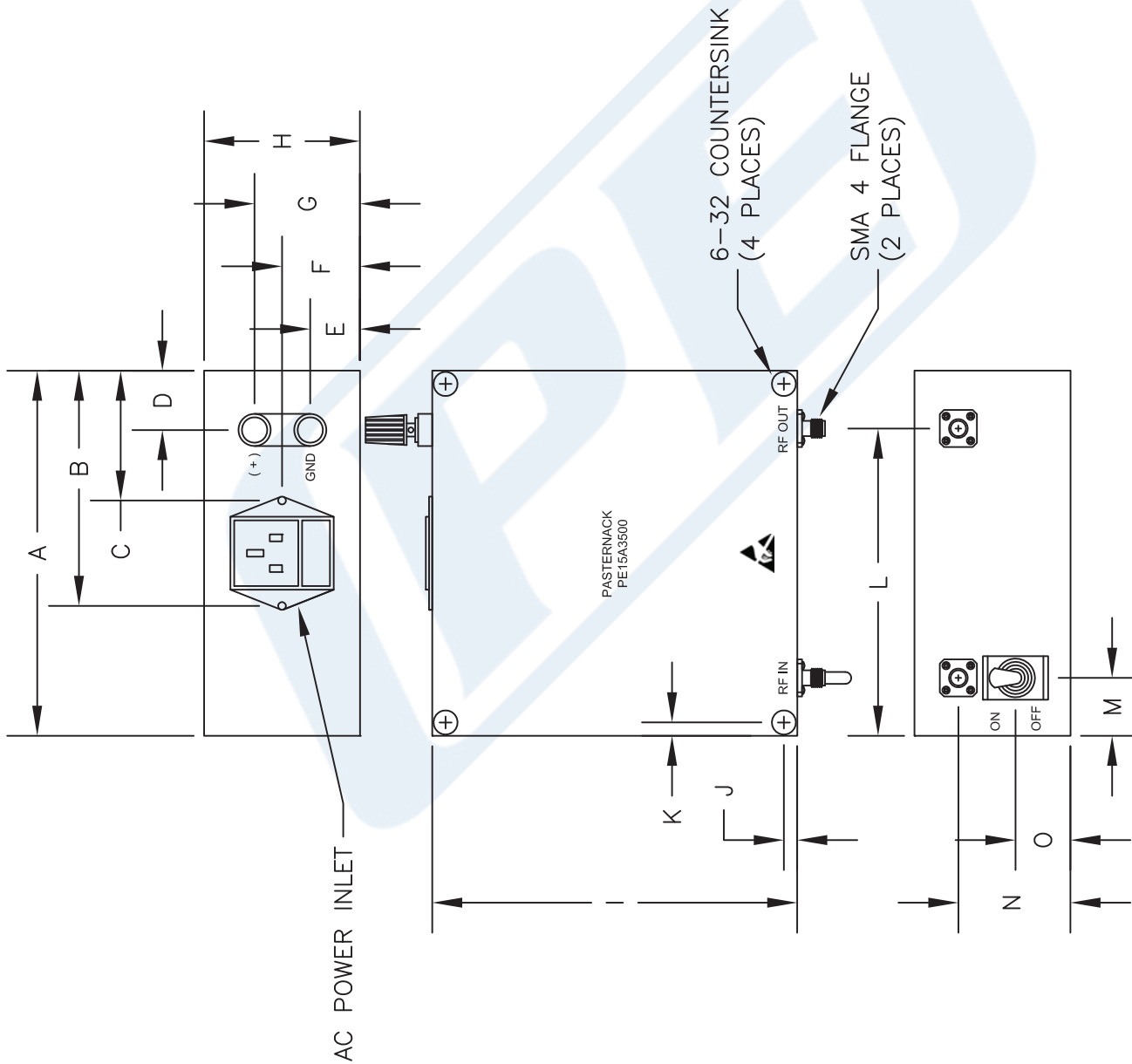
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PE15A3500 CAD Drawing

60 dB Gain, 10 dBm P1dB, 1 GHz to 20 GHz, Broadband

High Gain Amplifier, 5 dB NF, SMA

| Dimension | Inches | mm |
|-----------|--------|--------|
| A | 4.920 | 124.97 |
| B | 3.170 | 80.52 |
| C | 1.750 | 44.45 |
| D | 0.800 | 20.32 |
| E | 0.670 | 17.02 |
| F | 1.050 | 26.67 |
| G | 1.420 | 36.07 |
| H | 2.100 | 53.34 |
| I | 4.920 | 124.97 |
| J | 0.180 | 4.57 |
| K | 0.180 | 4.57 |
| L | 4.140 | 105.16 |
| M | 0.780 | 19.81 |
| N | 1.510 | 38.35 |
| O | 0.740 | 18.80 |



DWG TITLE

PE15A3500

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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CAD FILE 031914

SCALE N/A

SIZE A

2233