



40 dB Gain, 1.1 dB NF, 15 dBm, 3.1 GHz to 3.5 GHz, Low Noise High Gain Amplifier

TECHNICAL DATA SHEET **PE15A1006**

PE15A1006 is a S-band high gain low noise coaxial amplifier. It offers 15 dBm of P1dB and high 40 dB typical small signal gain. Technical performance is achieved through the use of hybrid technology. The amplifier requires typically a +15V DC power supply. The module features built-in voltage regulation, bias sequencing, and reverse protection. Operating temperature range of -30°C and +60°C.

Features

- 3.1 GHz to 3.5 GHz Frequency Range
- P1dB 15 dBm
- Small Signal Gain: 40 dB
- Gain Flatness: ±0.3 dB
- Noise Figure: 1.1 dB
- Unconditionally Stable
- Regulated Supply & Bias Sequencing
- Hermetically Sealed Module
- Overvoltage External Protection

Applications

- S-band Military Radar & Communications
- Commercial Traffic Control

Electrical Specifications: DC Voltage = 15 Volts, DC Current = 150 mA

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.1		3.5	GHz
Small Signal Gain		40		dB
Gain Flatness		±0.3	±0.5	dB
Output at 1 dB Compression Point		+15		dBm
Noise Figure		1.1	1.2	dB
Input VSWR		1.5:1	1.7:1	
Output VSWR		1.5:1	1.7:1	
Operating DC Voltage	10	15	17	Volts
Operating DC Current		150	170	mA
Operating Temperature Range			+60	°C

Click the following link (or enter part number in "SEARCH" field) to view product details: [PE15A1006](#)



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Absolute Maximum Rating

Parameter	Rating	Units
Source Voltage	+15	Volts
RF input Power	+17	dBm
Operating Temperature (base-plate)	-30 to +60	°C
Storage Temperature	-55 to +85	°C



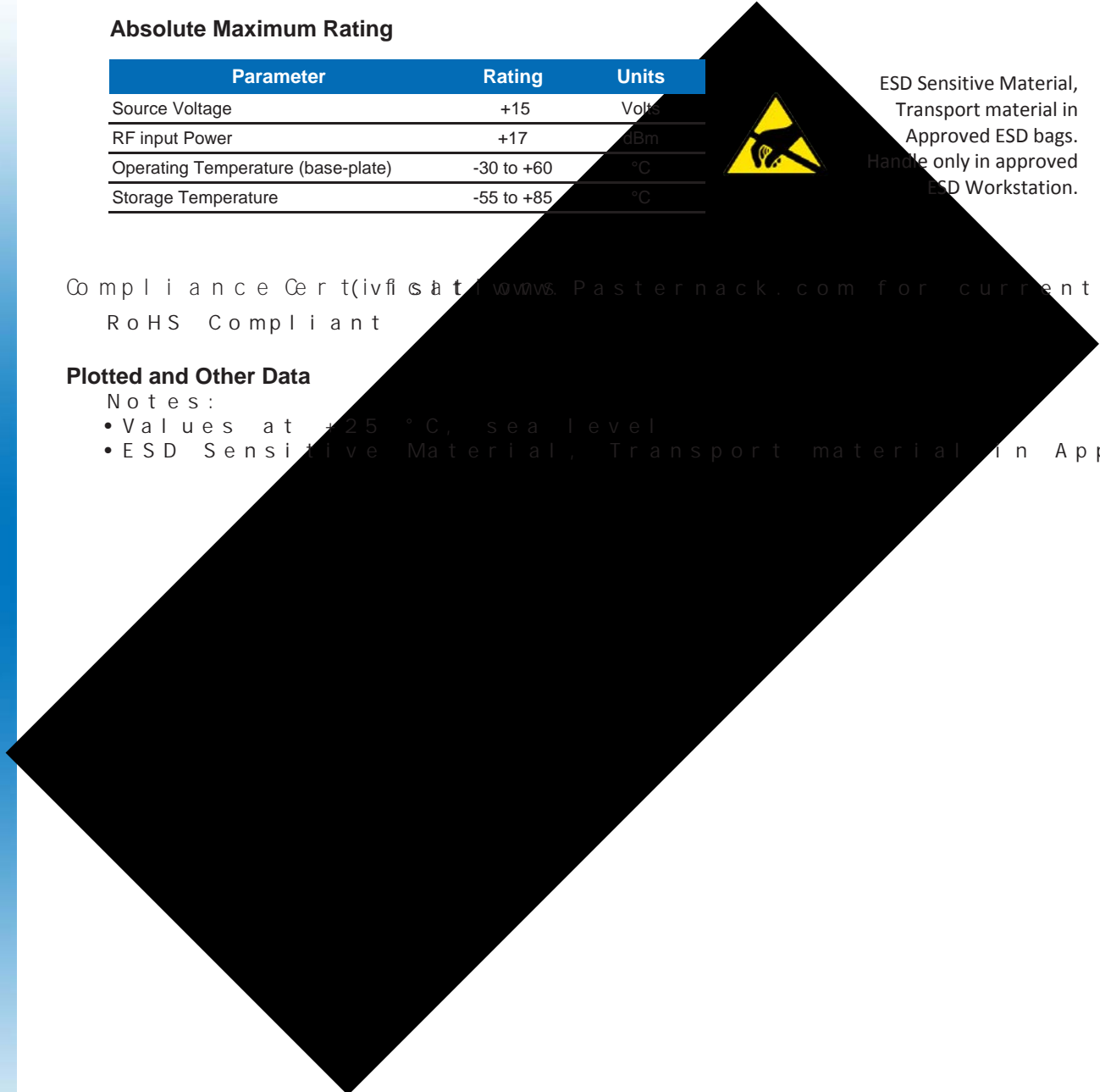
ESD Sensitive Material,
Transport material in
Approved ESD bags.
Handle only in approved
ESD Workstation.

Compliance Certification: www.Pasternack.com for current documents
RoHS Compliant

Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD Workstation.



Click the following link (or enter part number in "SEARCH" field) to view the product page:
[http://www.Pasternack.com/Products/40-dB-Gain-1.1-dB-NF-15-dBm-3.1-GHz-to-3.5-GHz-Low-Noise-High-Gain-Amplifier-PE15A1006.aspx](#)
 PE15A1006

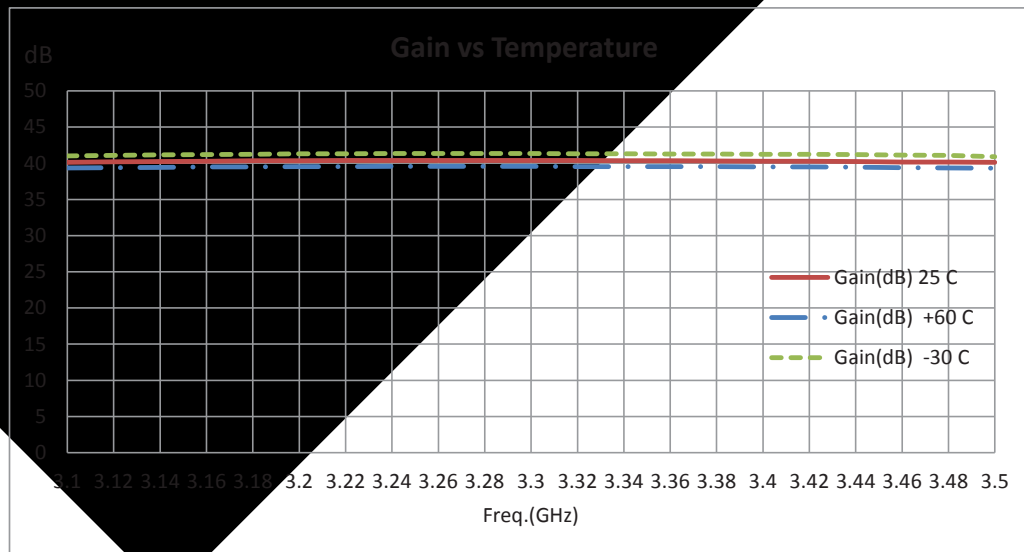
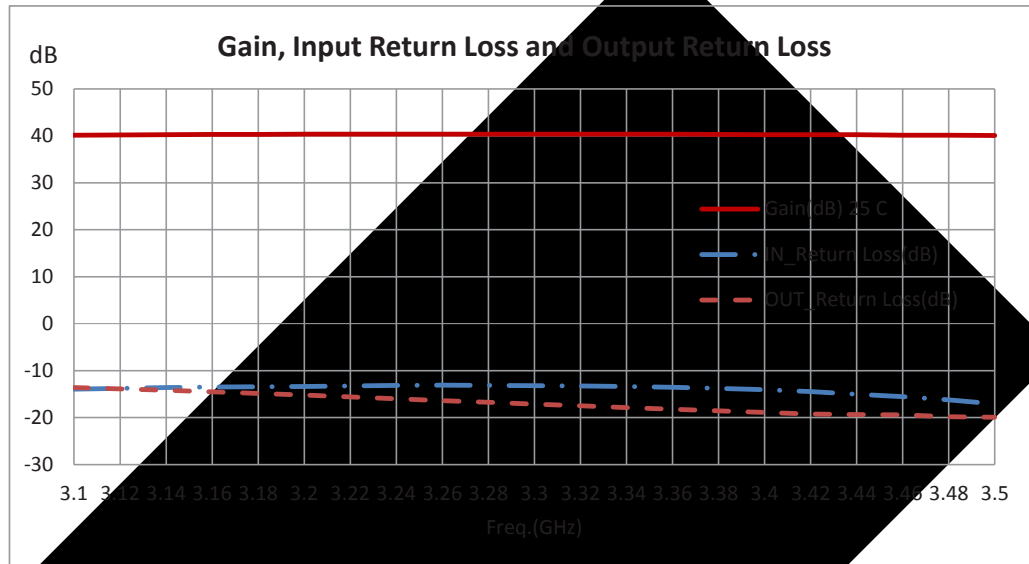


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Power Data



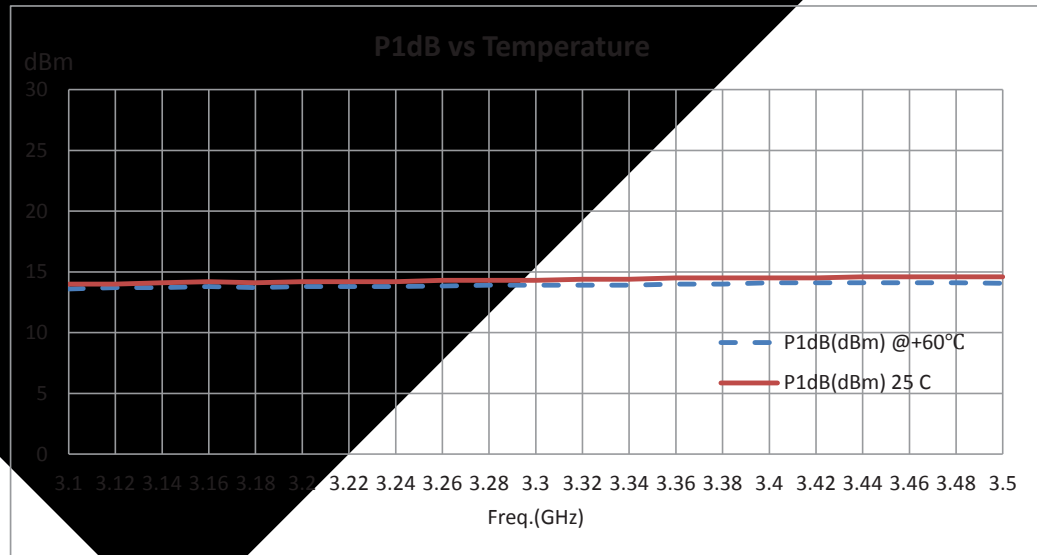
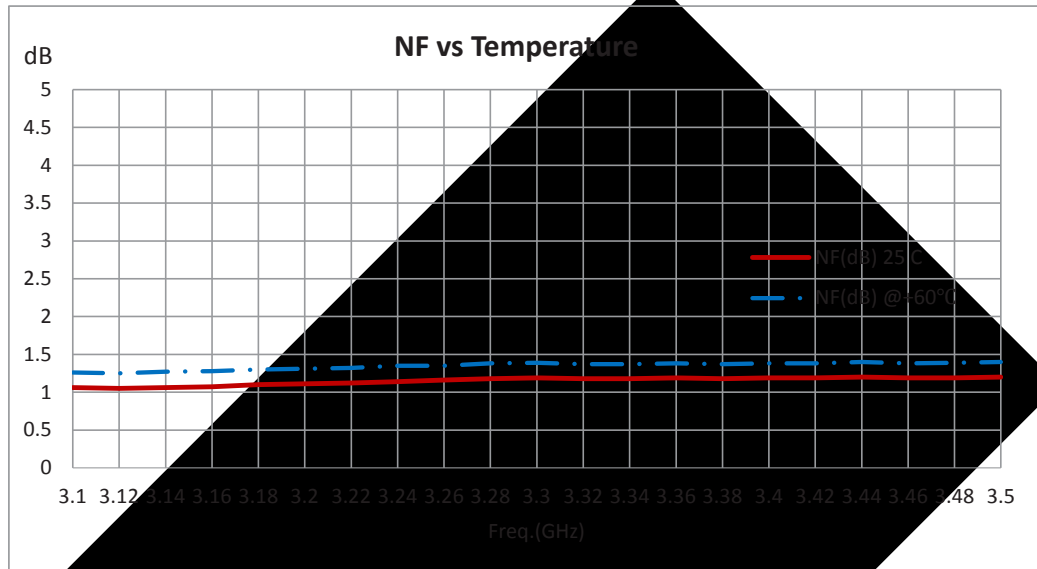
Click the following link (or enter part number in "SEARCH" field) to view the product page: [PE15A1006](#)



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40 dB Gain, 1.1 dB NF, 15 dBm, 3.1 GHz to 3.5 GHz, Low Noise High Gain Amplifier. Same day shipment for domestic and international orders. Our products are available in large quantities and are part of the broadest selection in the industry.

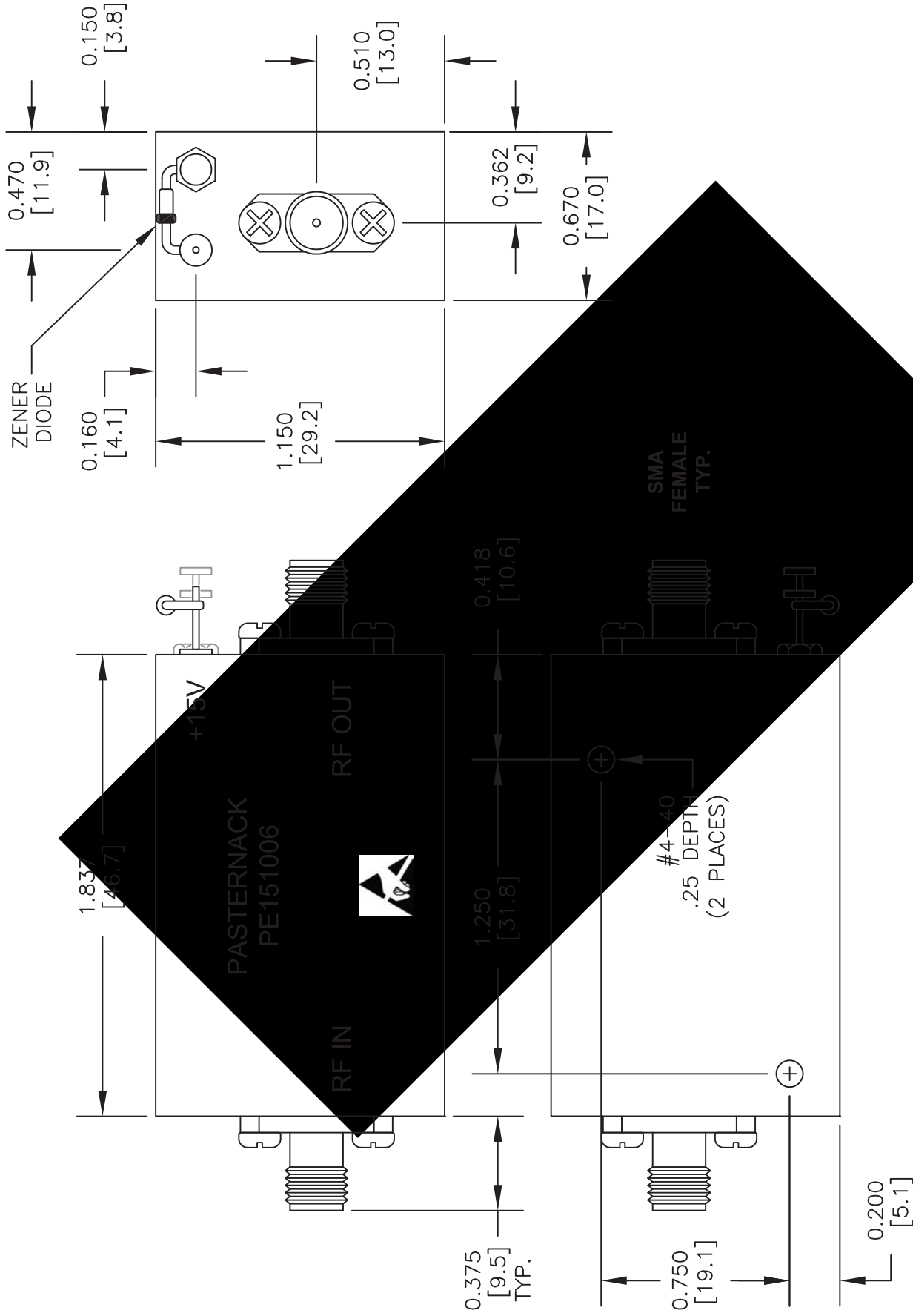
Click the following link (or enter part number in "SEARCH" field) to view product details and availability: <http://www.pasternack.com/40-dB-gain-3.1-ghz-to-3.5-ghz-low-noise-high-gain-amplifier>

URL: <http://www.pasternack.com/40-dB-gain-3.1-ghz-to-3.5-ghz-low-noise-high-gain-amplifier>

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.

PE15A1006 CAD Drawing

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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
PE15A1006

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FSCM NO. 53919

CAD FILE 040114

SCALE N/A

SIZE A

2233