



14 dBm P1dB, 10 MHz to 6 GHz, Gain Block
14.5 dB Gain, 26 dBm IP3, 4.5 dB NF, S.M.

The PE15A8001 is wideband general purpose RF coaxial gain range. The amplifier offers 14 dBm typ of P1dB, 14.5 dB t performance is achieved through the use of hybrid MIC des amplifier requires only a single positive supply, typically unconditionally stable and operates over the temperature r

Features

- 10 MHz to 6 GHz Frequency Range @ to +75°C Operating Temperature
- P1dB: 14 dBm
- Small Signal Gain: 14.5 dB
- OIP3: 26 dBm
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Single DC Positive Supply
- Built-in Voltage Regulator

Applications

- Labor Applications
- R&D Labs
- Military Radio
- Radar Systems
- Telecom Infrastructure
- Test Instrumentation
- Military & Space
- Communication Systems
- Wireless Communication
- Microwave Radio Systems
- Cellular Base Stations
- Low Noise Amplifier
- General Amplification
- General Purpose Wires
- Wideband Gain Block
- Amplifier/RF Driver
- RF Front End
- RF Pre-amplification

Electrical Specifications: DC Voltage = 12 Volts, DC Current

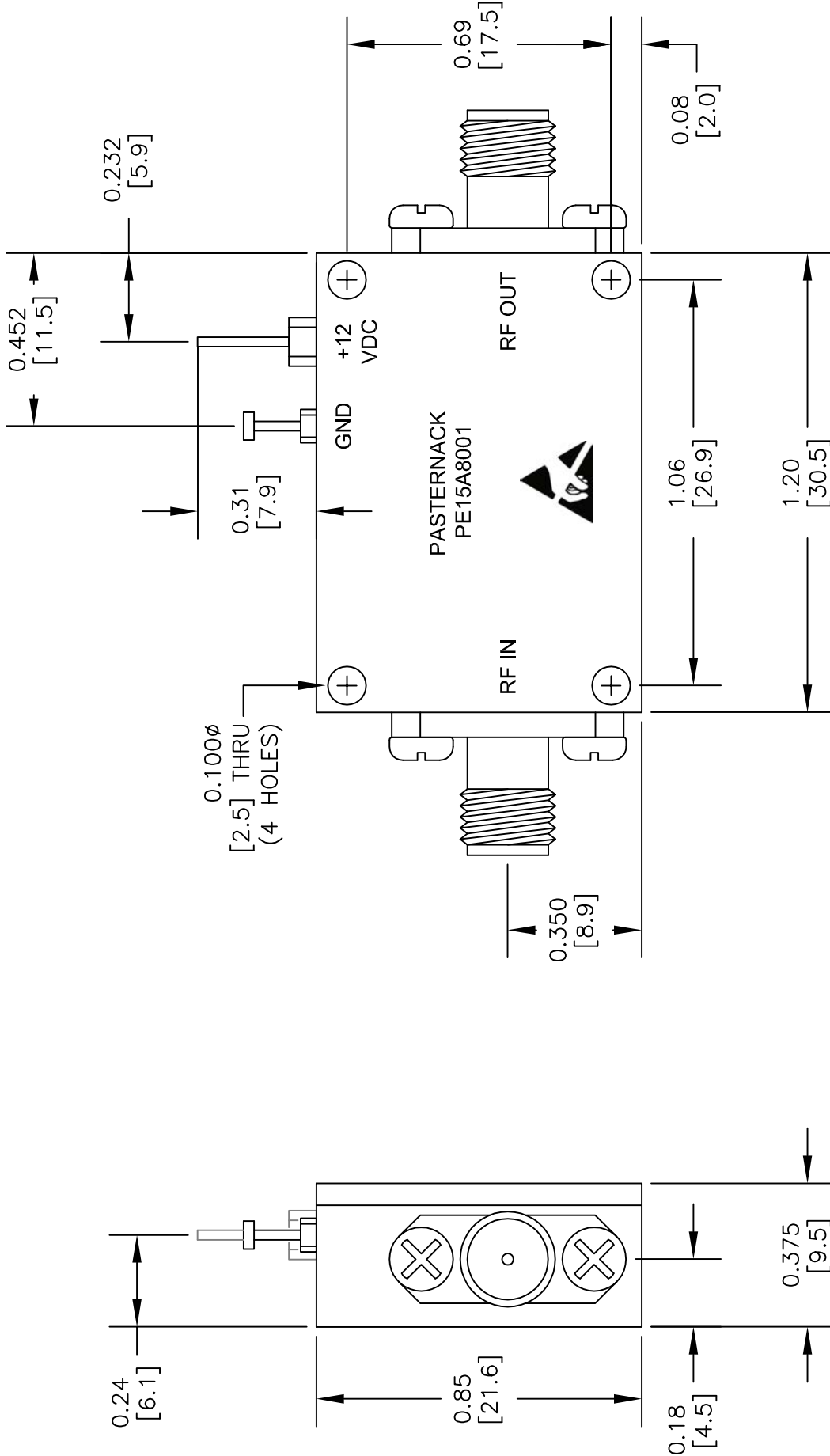
Description	Minimum	Typical	Maximum	Units
Frequency Range	0.01		6	GHz
Small Signal Gain	13.5	14.5	16	dB
Gain Flatness		±0.35	±0.5	dB
Gain Variance at OTR*			±0.75	dB
Output at 1 dB Compression Point		+14		dBm
Output 3rd Intercept Point		+26		dBm
Noise Figure		4.5	5.5	dB
Input VSWR		1.5:1	2:1	
Output VSWR		1.5:1	2:1	
Reverse Isolation	40	43		dB
Operating DC Voltage	9	12	15	Volts
Operating DC Current		50	65	mA
Operating Temperature Range			+75	°C

* OTR= Base Plate Operating Temperature Range

Click the following link (or enter part number in "SEARCH inventory and click on it") to view the product page: [MHz to 6 GHz, Gain Block Amplifier PE15A8001](#)

PE15A8001 CAD Drawing

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14.5 dB Gain, 26 dBm IP3, 4.5 dB NF, S



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
PE15A8001

FSCM NO. 53919

150

SIZE A

SCALE N/A

CAD FILE XXXXXX

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