



43 dB Gain, 25 Watt Psat, 0.15 MHz to 230 MHz, High Power High Gain Amplifier, 48 dBm IP3, SMA

TECHNICAL DATA SHEET

PE15A5028F

The PE15A5028F is a 25W high gain power coaxial amplifier operating in the 0.15 to 230 MHz frequency range. The amplifier offers 25 Watts typ of saturated power and a high 43 dB min small signal gain with the gain flatness of ± 1.5 dB max. The amplifier requires typically a +28V DC power supply. The connectorized SMA module is unconditionally stable and operates over the temperature range of 0°C and +50°C and has a Heat Sink and a Fan.

Features

- 0.15 MHz to 230 MHz Frequency Range
- Psat 25 Watts typ
- Small Signal Gain: 43 dB min
- Gain Flatness ± 1.5 dB max
- IP3 48 dBm typ
- 50 Ohms Input and Output Matched
- Unconditionally Stable
- Regulated Supply

Applications

- Military Radio
- Communication Systems
- High Gain Driver Power Amplifier
- High Gain Output Power Amplifier

Electrical Specifications (TA = +25°C, DC Voltage = 28Volts DC Current = 5,500mA)

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.15		230	MHz
Small Signal Gain	43			dB
Gain Flatness			± 1.5	dB
Psat		+44		dBm
Output at 1 dB Compression Point	+41.8			dBm
Output 3rd Intercept Point		+48		dBm
Harmonics		-15		dBc
Spurious		-60		dBc
Input VSWR			2:1	
Operating DC Voltage	28			Volts
Operating DC Current			5,500	mA
Operating Temperature Range	0		+50	°C

Environmental Specifications

Temperature

Operating Range	0 to +50 deg C
Humidity	95
Shock	Normal Truck Transport
Vibration	Normal Truck Transport
Altitude	10000

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [43 dB Gain, 25 Watt Psat, 0.15 MHz to 230 MHz, High Power High Gain Amplifier, 48 dBm IP3, SMA PE15A5028F](#)



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Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

43 dB Gain, 25 Watt Psat, 0.15 MHz to 230 MHz, High Power High Gain Amplifier, 48 dBm IP3, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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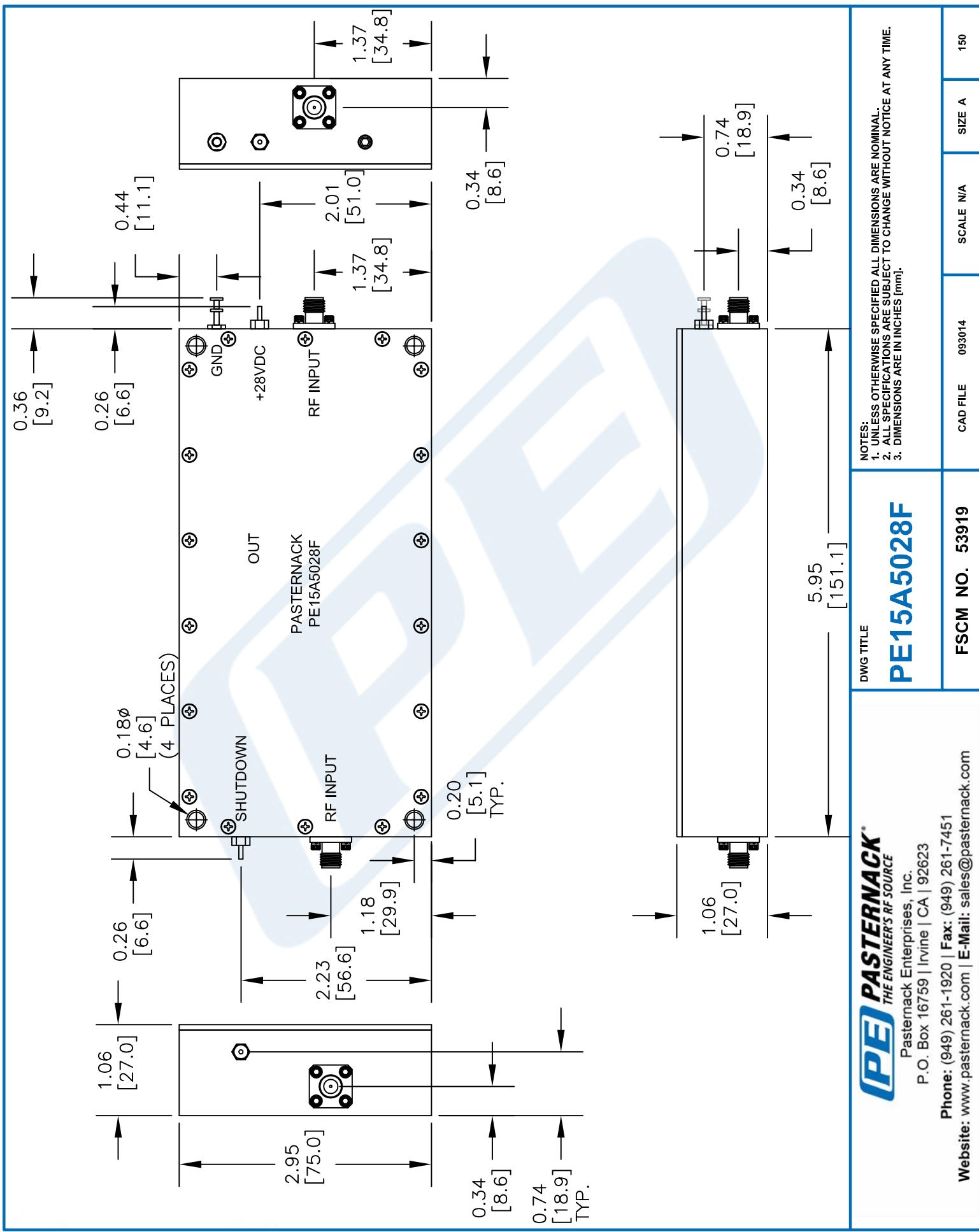
URL: <http://www.pasternack.com/43-db-gain-230-mhz-high-power-high-gain-amplifier-ip3-sma-pe15a5028f-p.aspx>

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.



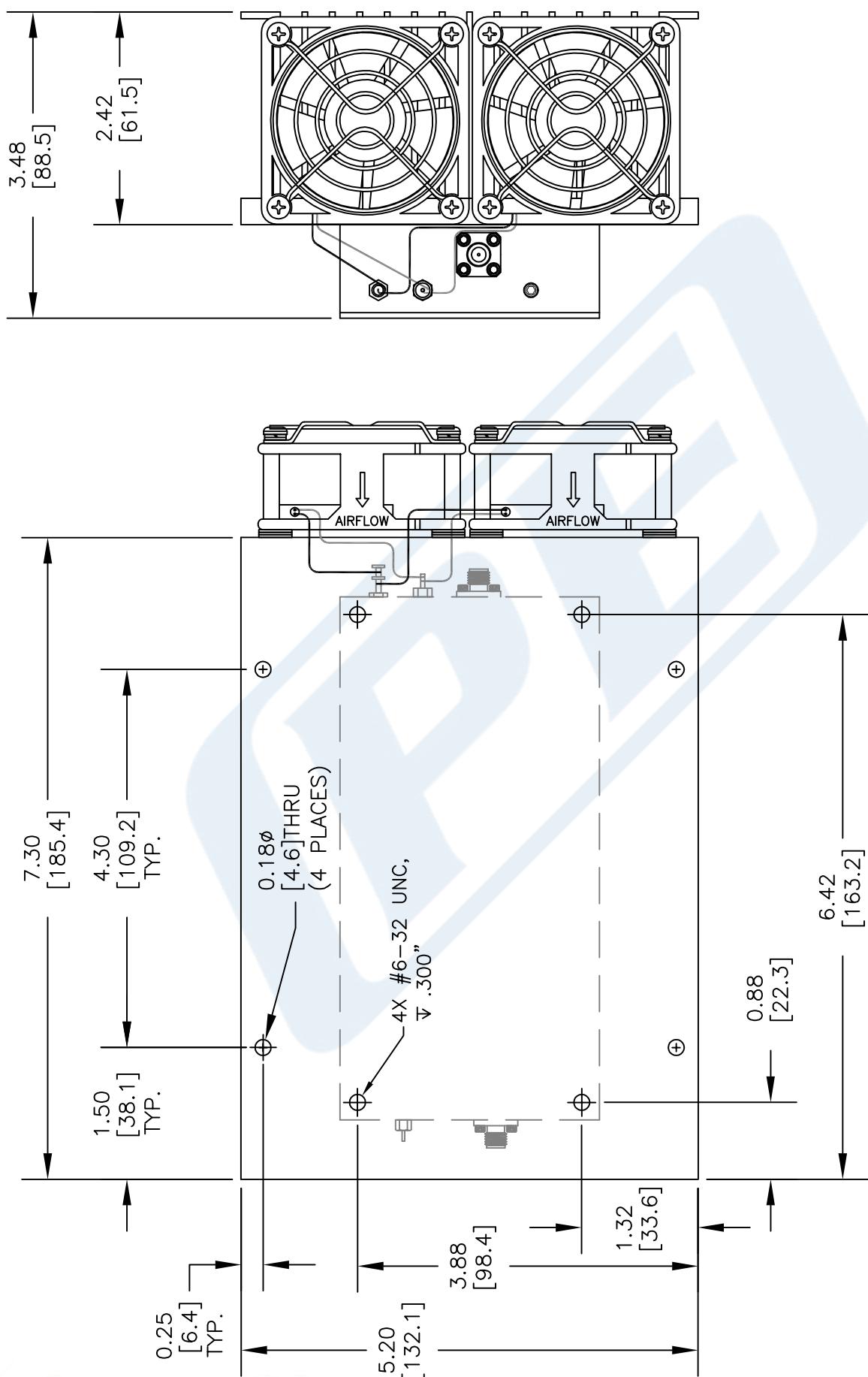
PE15A5028F CAD Drawing

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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].

PE15A5028F

DWG TITLE

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FS/CM NO.	53919	CAD FILE	033014	SCALE	N/A	SIZE	A	150
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