



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

Humidity

Shock

Vibration

Altitude

0 to +50 deg C

95

Normal Truck Transport

Normal Truck Transport

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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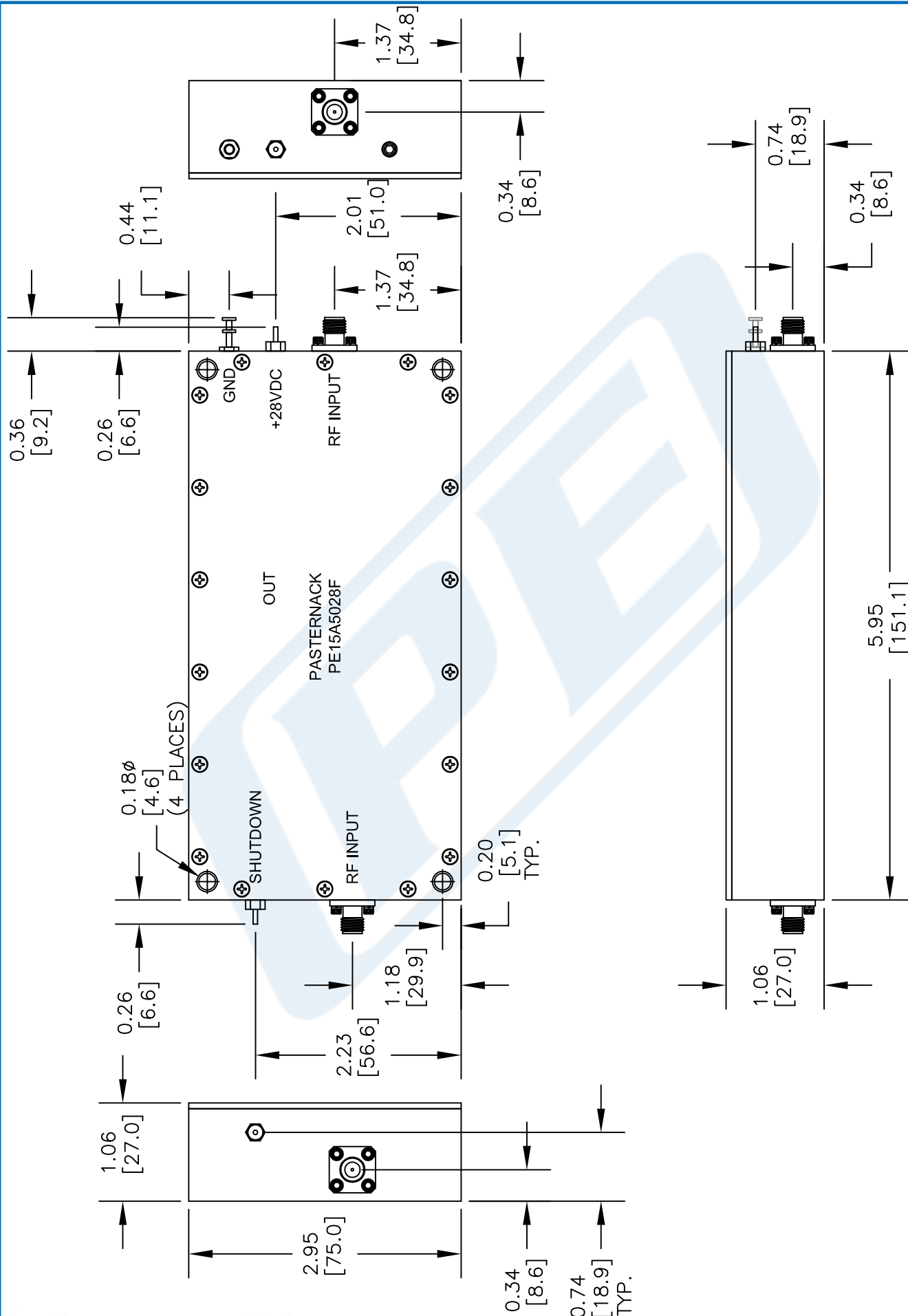
PE15A5028F

Not RoHS Compliant

Notes:

PE15A5028F CAD Drawing

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



DWG TITLE

PE15A5028F

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].

PE PASTERNAK
THE ENGINEER'S RF SOURCE

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FSCM NO. 53919

CAD FILE 093014

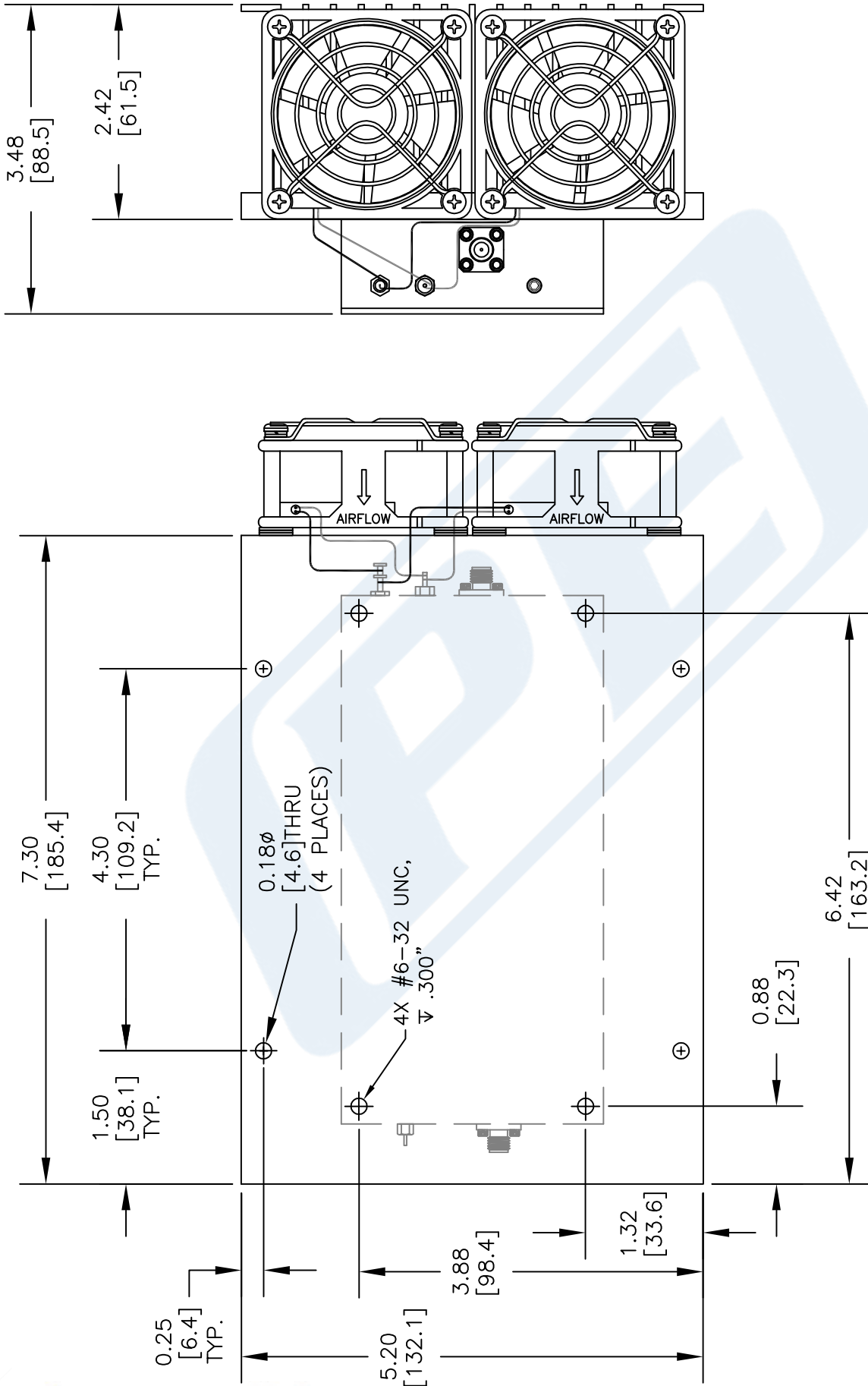
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SIZE A

150

PE15A5028F CAD Drawing

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