PASTERNACK®
THE ENGINEER'S RF SOURCE

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

TECHNICAL DATA SHEET PE15A5028

The PE15A5028 is a 25W high gain coaxial power amplifier operating in the 0.15 to 230 MHz frequency range. The amplifier offers 25 Watts typical saturated power and 43 dB minimum small signal gain with ±1.5 dB maximum of gain flatness. 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.

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 = 5,000mA)

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.15		230	MHz
Small Signal Gain	43			dB
Gain Flatness			±1.5	dB
Input Power			+1	dBm
Psat		+44		dBm
Output Power at 1 dB Compression Point	+41.8			dBm
Output 3rd Order Intercept Point		+48		dBm
Harmonics		-15		dBc
Spurious		-60		dBc
Input VSWR			2:1	
Operating DC Voltage		28		Volts
Operating DC Current			5,000	mA
Operating Temperature Range	0		+50	°C

Mechanical Specifications

Size	
Length	6 in [152.4 mm]
Width	3 in [76.2 mm]
Height	1.1 in [27.94 mm]
Weight	1.5 lbs [680.39 g]
Input Connector	SMA Female
Output Connector	SMA Female

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 PE15A5028

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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Environmental Specifications

Temperature

Operating Range	0 to +50 deg C
Humidity	95% Non-Condensing
Shock	Normal Truck Transport
Vibration	Normal Truck Transport
Altitude	10000 feet Above Sea Level

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.

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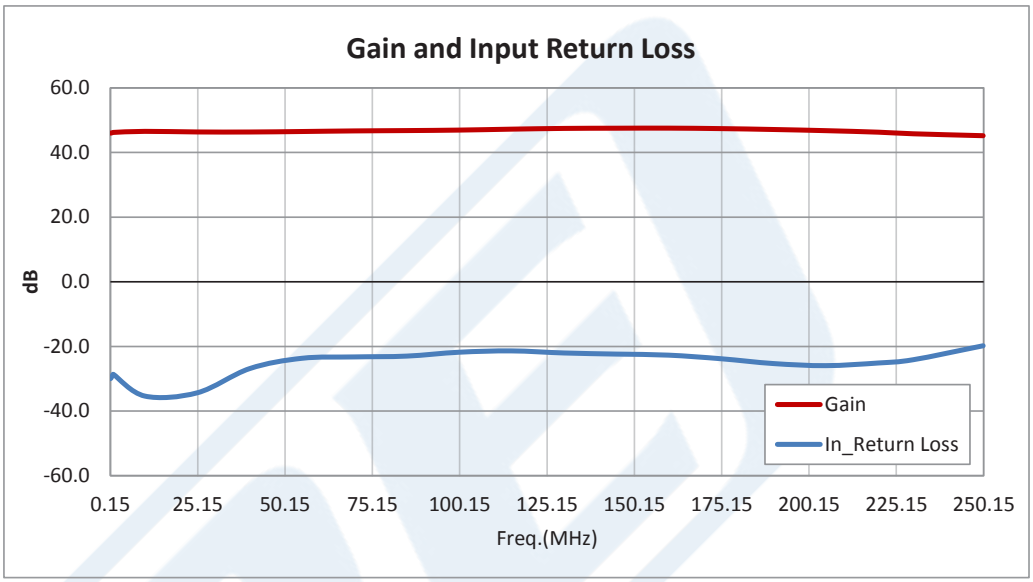
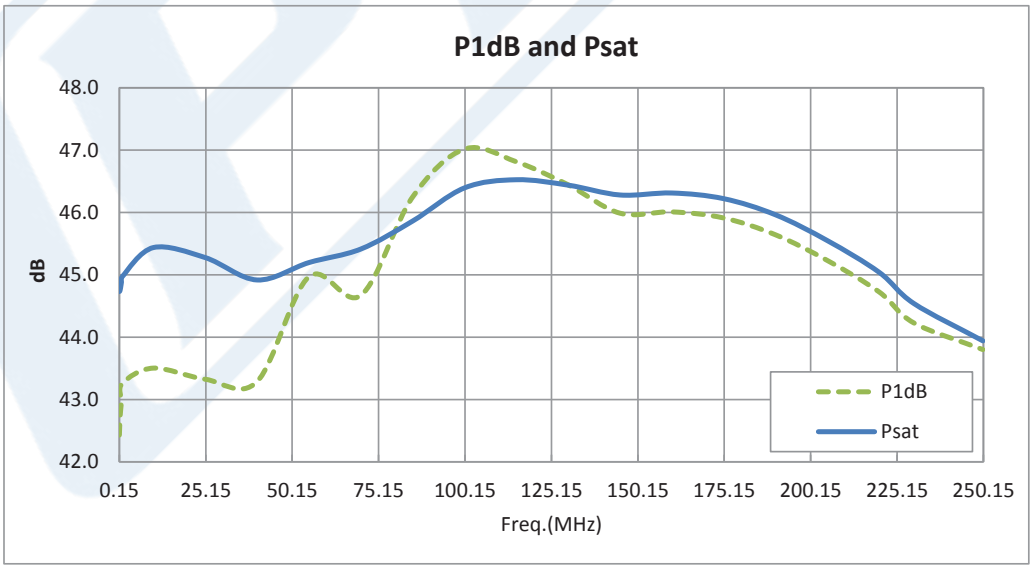
Typical Performance Data





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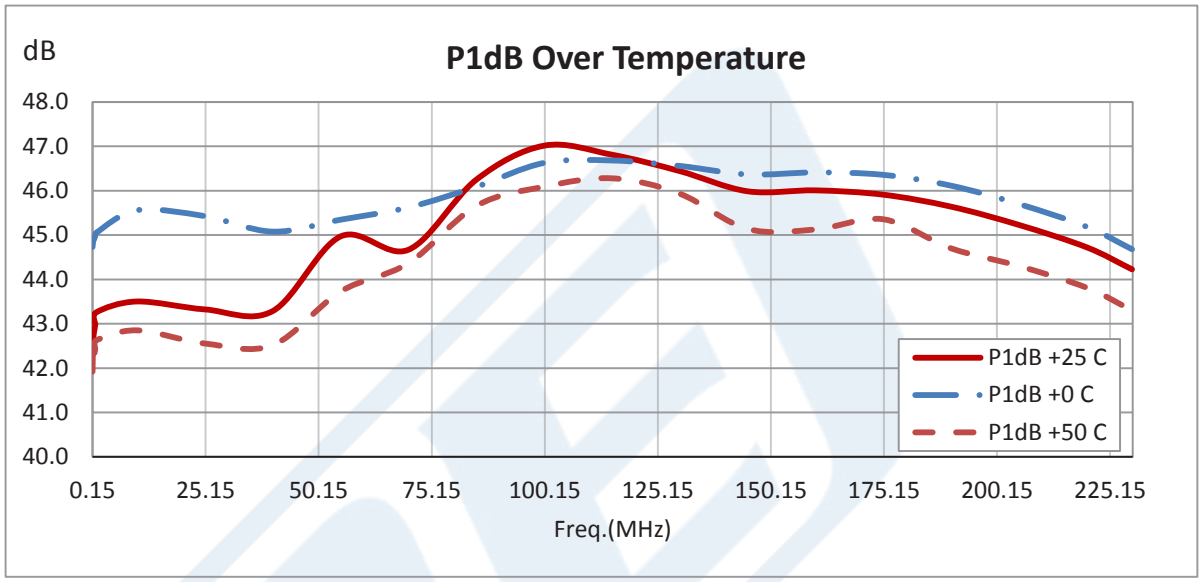

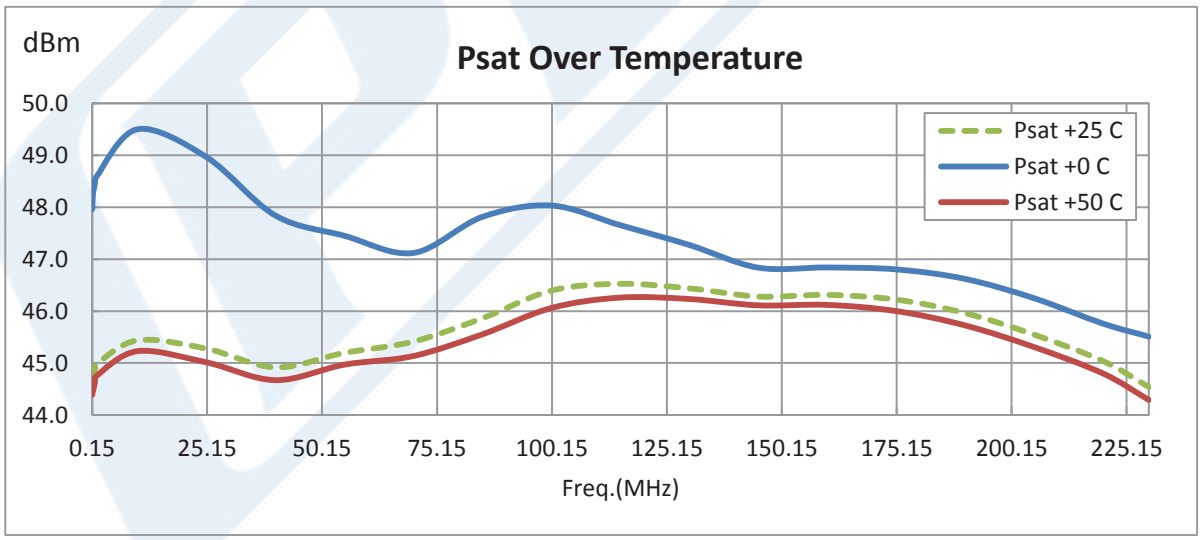

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43 dB Gain, 25 Watt Psat, 0.15 MHz to 230 MHz, High Power High Gain Amplifier, 48 dBm IP3, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability 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-pe15a5028-p.aspx

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PE15A5028 CAD Drawing

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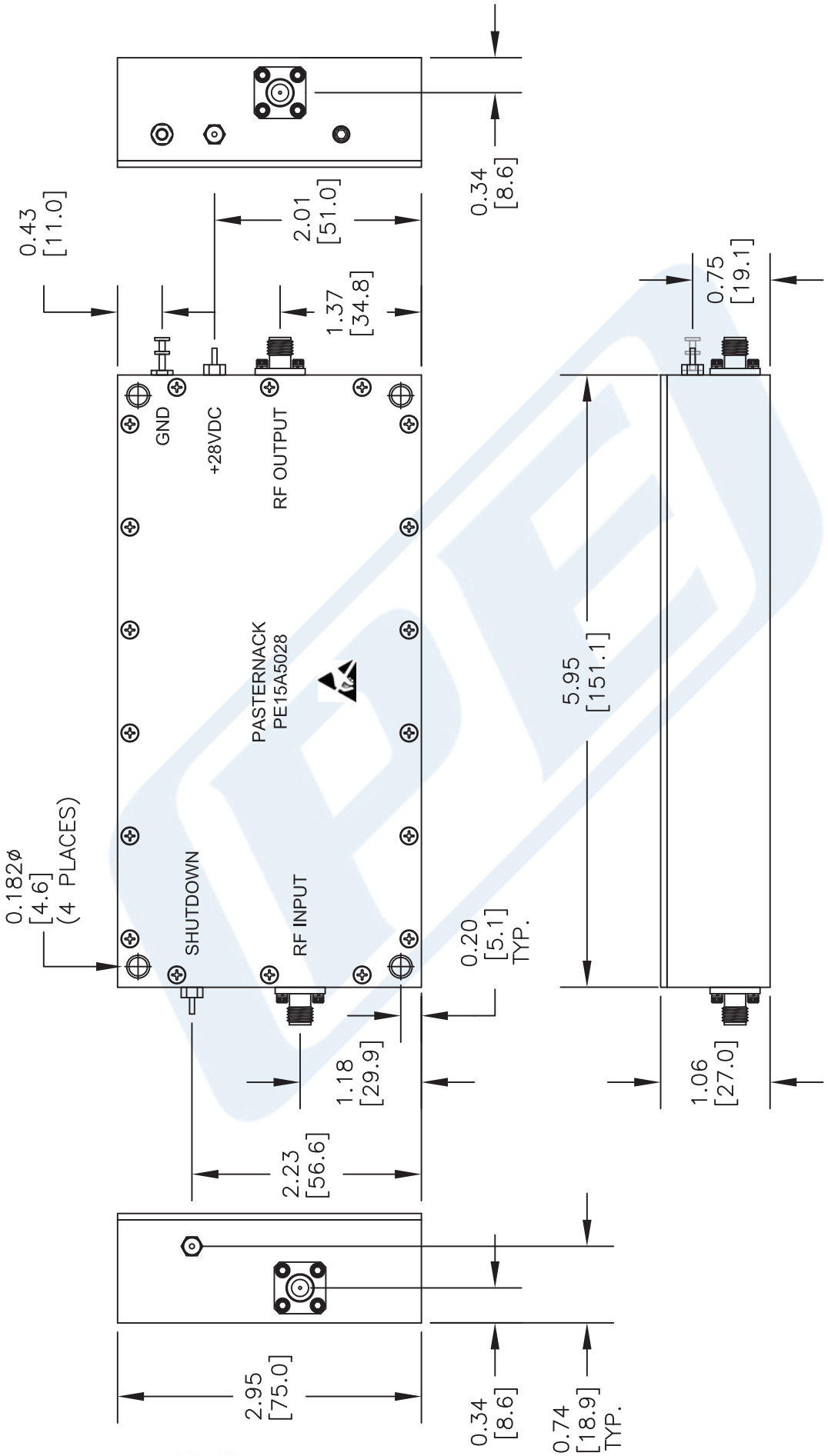

NOTE:
HEAT SINK REQUIRED FOR PROPER OPERATION, UNIT IS COOLED BY CONDUCTING TO HEAT SINK.

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: PE15A5028

CAD FILE 032615 | SCALE N/A | SIZE A | 2233

FSCM NO. 53919

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