



41 dB Gain, 12 Watt Psat, 800 MHz to 2 GHz, High Power High Gain Amplifier, 50 dBm IP3, SMA

TECHNICAL DATA SHEET

PE15A5035F

The PE15A5035 is a 12 W high gain power coaxial amplifier operating in the 0.8 to 2.0 GHz frequency range. The amplifier offers 12 Watts typ of saturated power and a high 41 dB typical small signal gain with the gain flatness of ± 1.5 dB max. The amplifier requires typically a +13V DC power supply. The connectorized SMA module is unconditionally stable and operates over the temperature range of 0°C and +50°C.

Features

- 0.8 GHz to .02 GHz Frequency Range
- Psat 12 Watts typ
- Small Signal Gain: 41 dB min
- Gain Flatness ± 1.5 dB max
- IP3 50 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 = 13Volts DC Current = 5,000mA)

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.8		2	GHz
Small Signal Gain	41			dB
Gain Flatness			± 1.5	dB
Psat		+40.8		dBm
Output at 1 dB Compression Point	+40			dBm
Output 3rd Intercept Point		+50		dBm
Harmonics		-20		dBc
Spurious		-60		dBc
Input VSWR			2:1	
Operating DC Voltage		13		Volts
Operating DC Current			5,000	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: [41 dB Gain, 12 Watt Psat, 800 MHz to 2 GHz, High Power High Gain Amplifier, 50 dBm IP3, SMA PE15A5035F](#)





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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.

41 dB Gain, 12 Watt Psat, 800 MHz to 2 GHz, High Power High Gain Amplifier, 50 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.

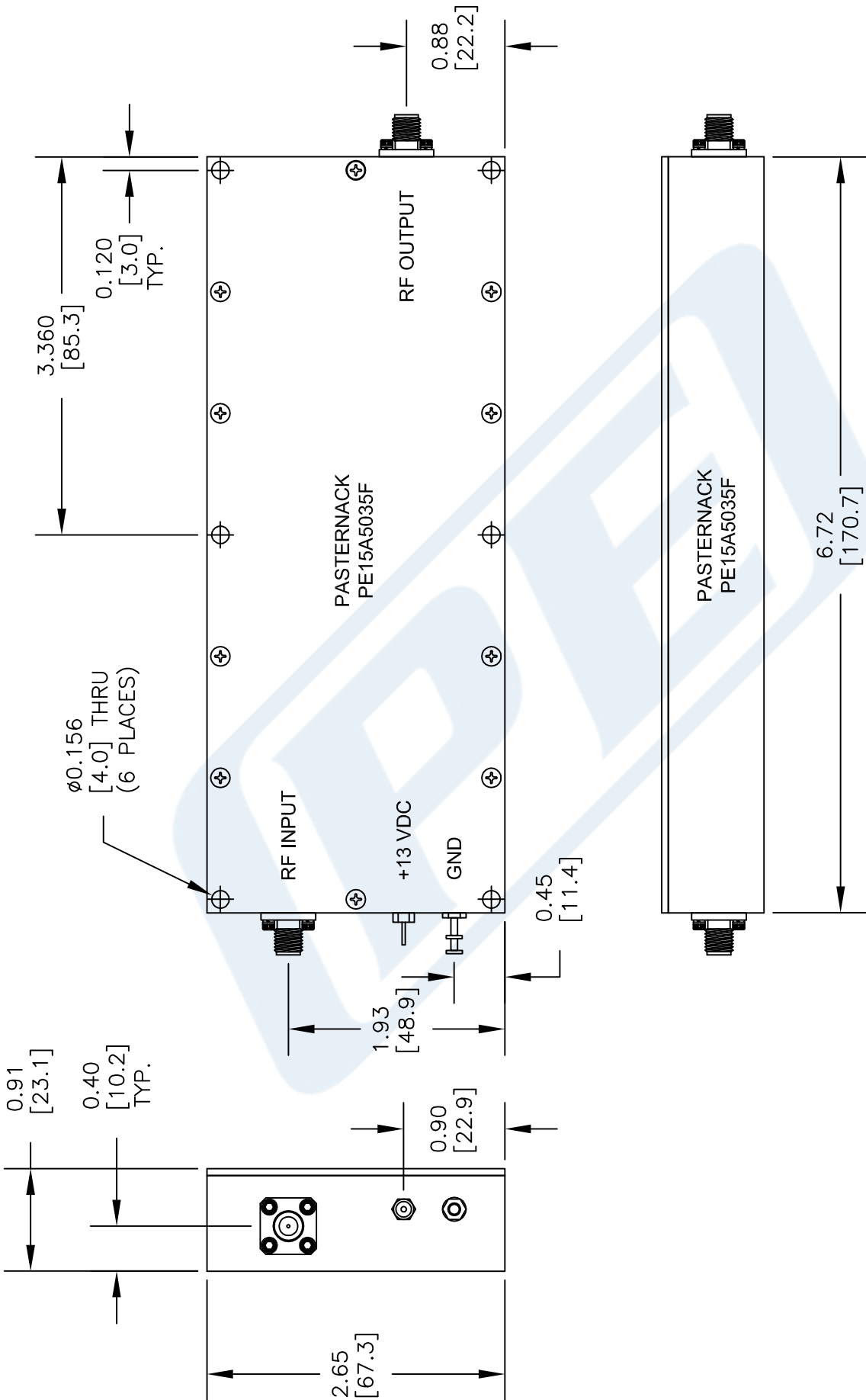
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [41 dB Gain, 12 Watt Psat, 800 MHz to 2 GHz, High Power High Gain Amplifier, 50 dBm IP3, SMA PE15A5035F](http://www.pasternack.com/41-db-gain-2-ghz-high-power-high-gain-amplifier-ip3-sma-pe15a5035f-p.aspx)

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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.

PE15A5035F 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
PE15A5035F

FSCM NO. 53919

CAD FILE 100314

SCALE N/A

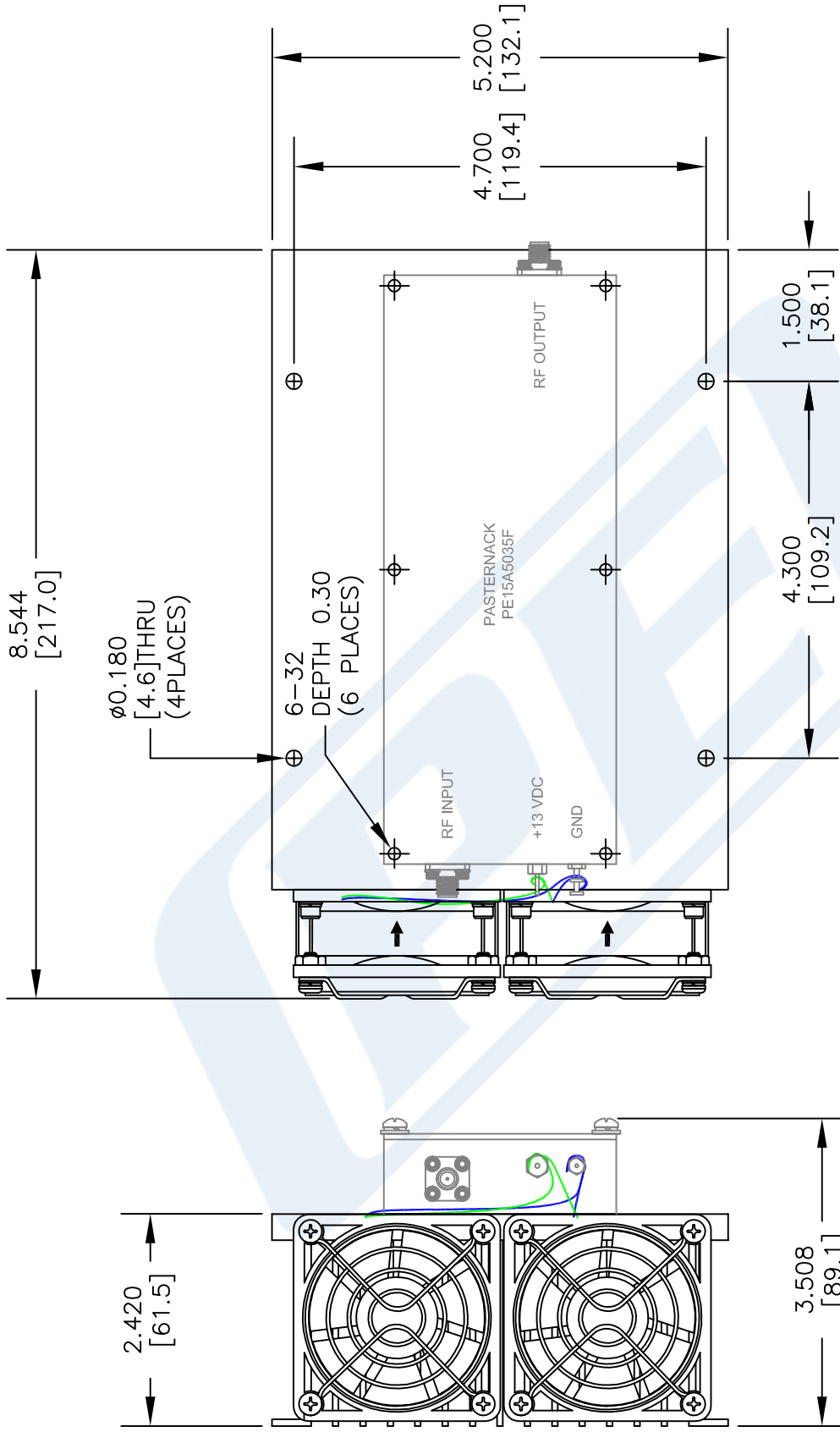
SIZE A

150

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