



TECHNICAL DATA SHEET

PE15A5035

The PE15A5035 is a 12 W high gain Class A/AB coaxial power amplifier operating in the 0.8 to 2.0 GHz frequency range. The amplifier offers 12 Watts typical saturated power and 41 dB typical small signal gain with ± 1.5 dB maximum gain flatness. The amplifier requires typically a ± 13 V 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 2.0 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
Input Power			+10	dBm
Psat		+40.8		dBm
Output Power at 1 dB Compression Point	+40			dBm
Output 3rd Order Intercept Point		+50		dBm
Harmonics @10 Watts		-20		dBc
Spurious @10 Watts		-60		dBc
Input VSWR			2:1	
TTL Control		"1" = On; "0" = Off	f	
TTL Control Enable		5		Volts
TTL Control Disable		0		Volts
Operating DC Voltage		13		Volts
Operating DC Current			5,000	mA
Operating Temperature Range	0		+50	°C

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 PE15A5035

ISO 9001 : 2008 Registered





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Mechanical Specifications

Size

6.8 in [172.72 mm] Length 2.7 in [68.58 mm] Width 1 in [25.4 mm] Height Weight 1 lbs [453.59 g] Input Connector SMA Female **Output Connector** SMA Female

Cooling ADEQUATE HEATSINK REQUIRED

Environmental Specifications

Temperature

Operating Range 0 to +50 deg C

95% Non-Condensing Humidity Normal Truck Transport Shock 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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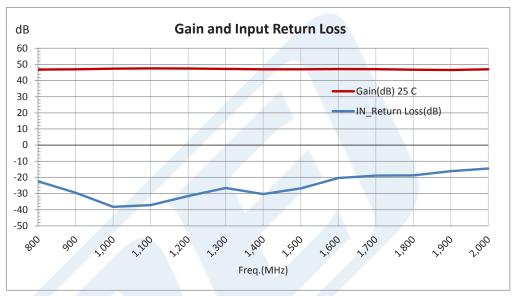


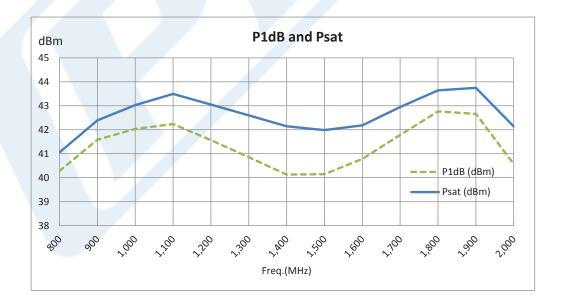


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Typical Performance Data





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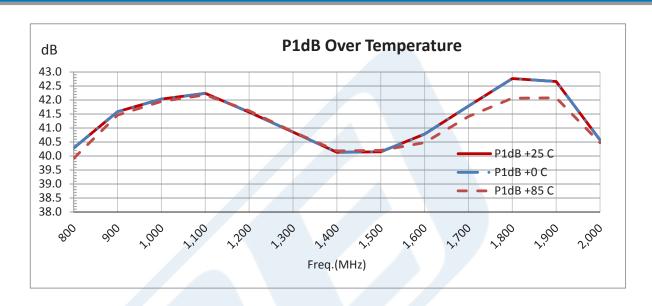


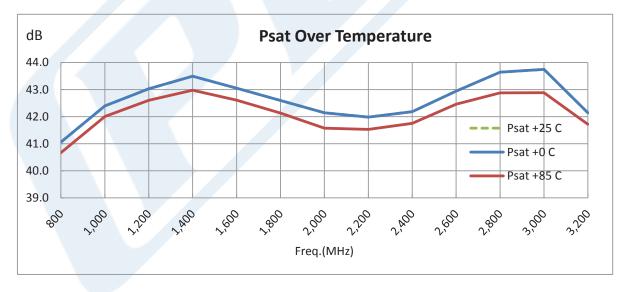




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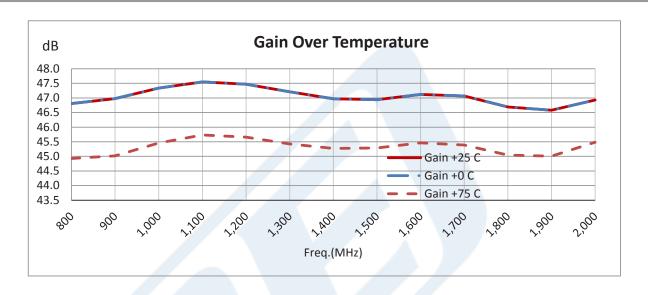
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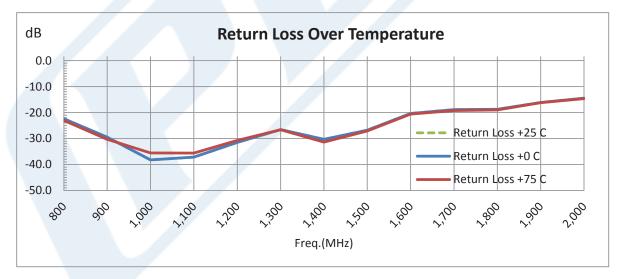




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41 dB Gain, 12 Watt Psat, 800 MHz to 2 GHz, High Power High Gain Amplifier, 50 dBm IP3, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/41-db-gain-2-ghz-high-power-high-gain-amplifier-ip3-sma-pe15a5035-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.

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PE15A5035 CAD Drawing

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

