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45 dB Gain, 100 Watt Psat, 700 MHz to 2.7 GHz, High Power High Gain Amplifier, GaN, SMA

TECHNICAL DATA SHEET

PE15A5033F

The PE15A5033F is a 100 W high gain Class A/AB Coaxial Linear Power Amplifier operating in the 0.7 to 2.7 GHz frequency range. The amplifier offers 100 Watts typical saturated power and 45 dB minimum small signal gain with ±1.5 dB typical gain flatness. The amplifier requires typically a +30V DC power supply. The SMA connectorized module is unconditionally stable and operates over the temperature range of 0°C and +50°C. The unit comes with a Heatsink and Fan.

Features

- 0.7 GHz to 2.7 GHz Frequency Range
- · Psat 100 Watts typ
- Small Signal Gain: 45 dB min
- Gain Flatness ±1.5 dB typ
- Switching Time 5 usec max
- 50 Ohms Input and Output Matched

- · Unconditionally Stable
- Regulated Supply
- RF Input Signal Format: CW/AM/FM/Pulse
- Efficiency (PAE) 30% Typical
- Heatsink and Fan

Applications

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

Electrical Specifications (TA = +25°C, DC Voltage = 30Volts)

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.7		2.7	GHz
Small Signal Gain	45			dB
Gain Flatness @ Psat		±1.5	±2	dB
Input Power		+7	+10	dBm
Psat	+49.5	+50		dBm
Efficiency (PAE)	25	30		%
Harmonics		-20	-15	dBc
Spurious		-70	-60	dBc
Input VSWR			2:1	
Switching Speed for On/Off Switch Gate			5,000	usec
TTL Control	"1": On, "0": Off, Enable: 5V, Disable: 0V			
Operating DC Voltage		30		Volts
DC Consumption			500	Watts
Operating Temperature Range	0		+50	°C

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ISO 9001: 2008 Registered



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Mechanical Specifications

Size

 Length
 10.75 in [273.05 mm]

 Width
 7 in [177.8 mm]

 Height
 3.75 in [95.25 mm]

 Weight
 9.5 lbs [4.31 Kg]

 Input Connector
 SMA Female

 Output Connector
 SMA Female

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.



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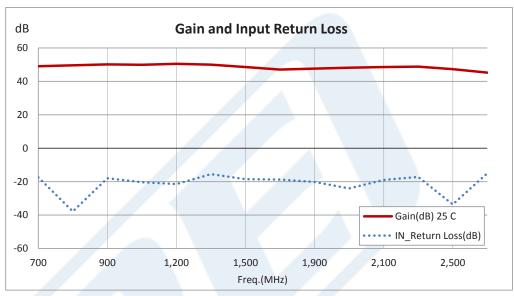


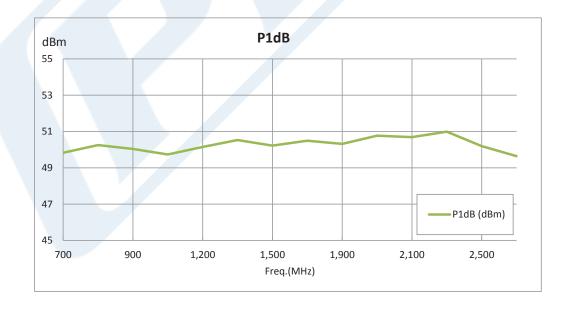


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Typical Performance Data





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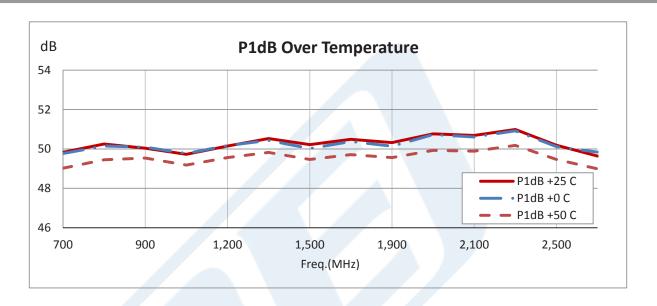
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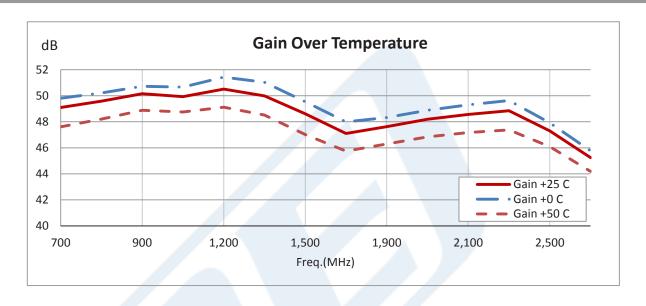


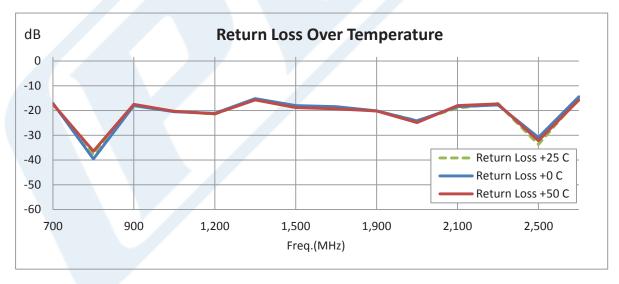




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45 dB Gain, 100 Watt Psat, 700 MHz to 2.7 GHz, High Power High Gain Amplifier, GaN, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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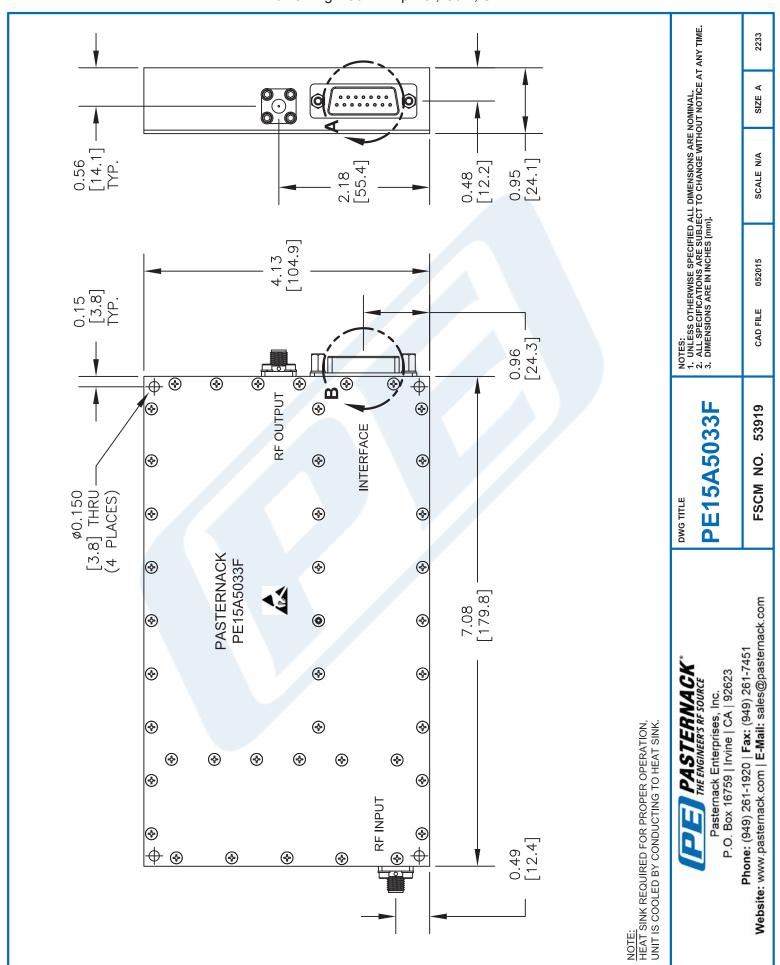
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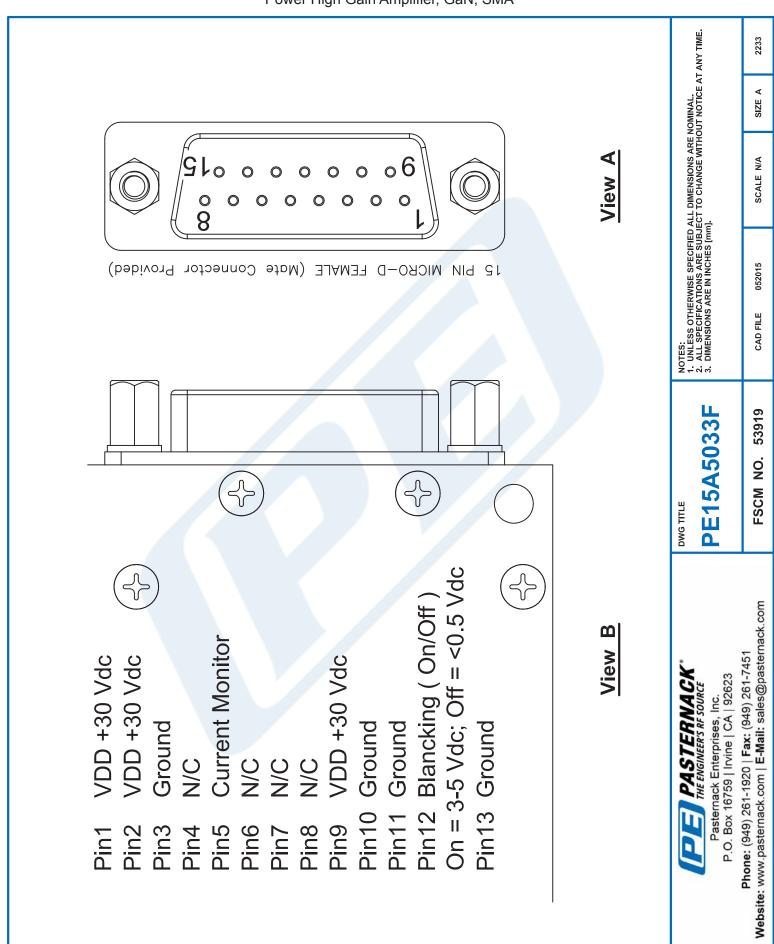
PE15A5033F CAD Drawing

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