

PE15A4037 421051620180000003 RF OUT

2 Watt Psat, 500 MHz to 6 GHz, Medium Power Broadband Amplifier, 24 dB Gain, SMA

TECHNICAL DATA SHEET

PE15A4037

The PE15A4037 is a broadband coaxial power amplifier, operating in the 0.5 to 6 GHz frequency range. The amplifier offers 36 dBm of P1dB min and 28 dB small signal gain min, with the gain flatness of ±2.0 dB max. This power amplifier requires only a single positive DC supply, in unconditionally stable, operates over the temperature range of -40°C to 75°C, and is Hermetically sealed.

Features

- 0.5 to 6 GHz Frequency Range
- P1dB: 36 dBm min
- Small Signal Gain: 28 dB min
- Gain Flatness: ±2.0 dB max
- 50 Ohm Input and Output Matched

- -40 to +75°C Operating Temperature
- · Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

Applications

- Laboratory Applications
- R&D Labs
- Test Instrumentation
- · Military & Space

- Communication Systems
- Satellite Communications
- Wireless Communications
- Unmanned Systems
- Microwave Radio Systems
- · Low Noise Amplifier
- General Purpose Amplification
- RF Front Ends

Electrical Specifications (TA= 25°C, VDC1 = 28 Vdc)

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		6	GHz
Gain	24			dB
Output at 1 dB Compression Point		+33		dBm
Saturation Output Power	+33			dBm
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage 1	27	28	29	Volts
Operating DC Current		600		mA
Quiescent Current		300		mA
Operating Temperature Range (OTR)	-40		+75	°C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2 Watt Psat, 500 MHz to 6 GHz, Medium Power Broadband Amplifier, 24 dB Gain, SMA PE15A4037

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





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Performance by Frequency

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		6	GHz
Gain				
Frequency = 0.5-2 GHz	25	28		dB
Frequency = 2-6 GHz	24	26		
Saturation Output Power		A 30		
Frequency = 0.5-2 GHz	+35	+36		dBm
Frequency = 2-6 GHz	+32.5	+34		

Absolute Maximum Rating

Parameter	Rating	Units
Source Voltage	+30	Volts
RF input Power	+20	dBm
Operating Temperature (base-plate)	-40 to +75	°C
Storage Temperature	-55 to +85	°C



ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

Mechanical Specifications

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 Size

 Length
 2.4 in [60.96 mm]

 Width
 2.1 in [53.34 mm]

 Height
 0.5 in [12.7 mm]

 Weight
 0.249 lbs [112.94 g]

 Input Connector
 SMA Female

 Output Connector
 SMA Female

Environmental Specifications

Temperature

Operating Range -40 to +75 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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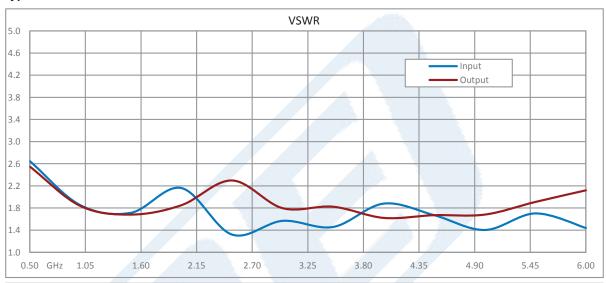


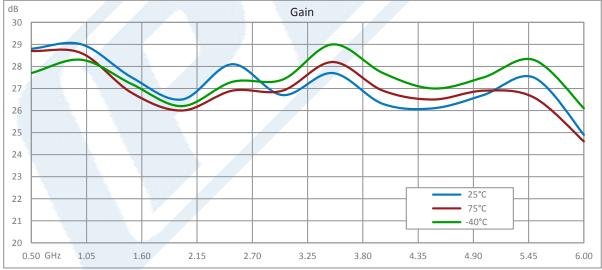
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Typical Performance Data





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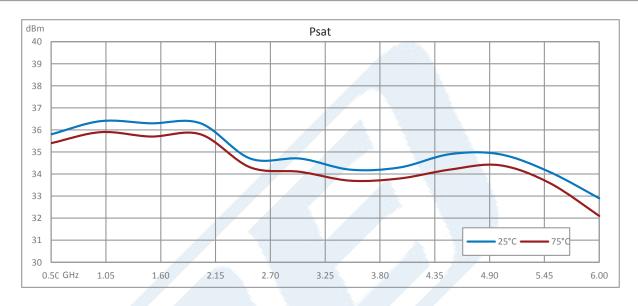




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URL: https://www.pasternack.com/6-ghz-medium-power-broadband-amplifier-24-db-gain-sma-pe15a4037-p.aspx

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