

TECHNICAL DATA SHEET

The PE15A4040 is a broadband coaxial power amplifier, operating in the 2.0 to 6.0 GHz frequency range. The amplifier offers 23 dBm of P1dB min and 12 dB small signal gain min, with the gain flatness of \pm 0.4 dB typ. This power amplifier requires only a single positive DC supply, is unconditionally stable, operates over the temperature range of -30°C to 70°C, and is Hermetically sealed.

Features

- 2.0 to 6.0 GHz Frequency Range
- P1dB: 23 dBm min
- Small Signal Gain: 13 dB typ
- Gain Flatness: ±0.4 dB max
- 50 Ohm Input and Output Matched

Electrical Specifications (TA= 25°C, VDC1 = 12 Vdc)

Applications

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

Satellite Communications Wireless Communications

- Unmanned Systems

Communication Systems

- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification

mΑ

°C

RF Front Ends

+70

-30 to +70°C Operating Temperature

Unconditionally Stable

Single DC Positive Supply

Built-in DC Voltage Regulator

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		6	GHz
Gain	12	13		dB
Gain Flatness		±0.4		dB
Output at 1 dB Compression Point	+23			dBm
Output 3 rd Intercept Point		+33		dBm
Noise Figure		5.4		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage 1	11	12	15	Volts

-30

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 23 dBm P1dB, 2 GHz to 6 GHz, Medium Power Broadband Amplifier, 13 dB Gain, 33 dBm IP3, 5.4 dB NF, SMA PE15A4040

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Operating DC Current

Operating Temperature Range (OTR)

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Mechanical Specifications Size

Length Width Height Weight Input Connector Output Connector

1.083 in [27.51 mm] 1.093 in [27.76 mm] 0.382 in [9.7 mm] 0.07 lbs [31.75 g]

SMA Female SMA Female

Environmental Specifications

Temperature Operating Range

-30 to +70 deg C

Compliance Certifications (see product page for current document)

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 VSWR 3.0 2.7 2.4 2.1 1.8 1.5 1.2 0.9 0.6 Input 0.3 Output 0.0 2.0 GHz 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 dB Gain 18 17 16 15 14 13 12 70°C 11 25°C -30°C 10 2.0 GHz 3.0 3.5 2.5 4.0 4.5 5.0 5.5 6.0

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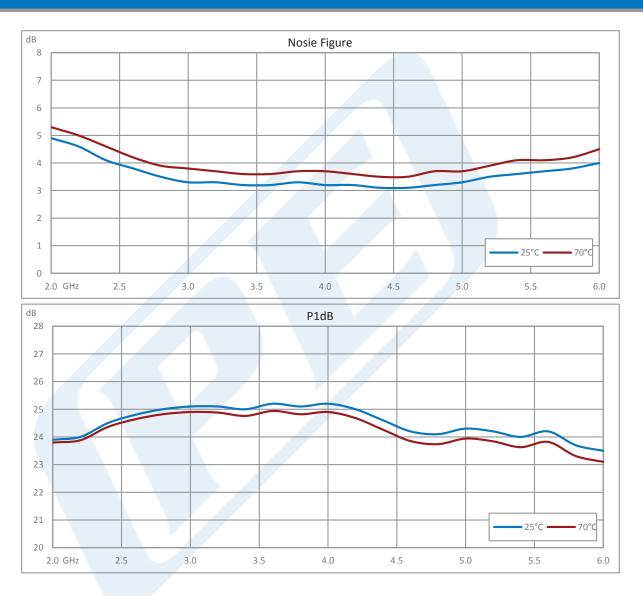
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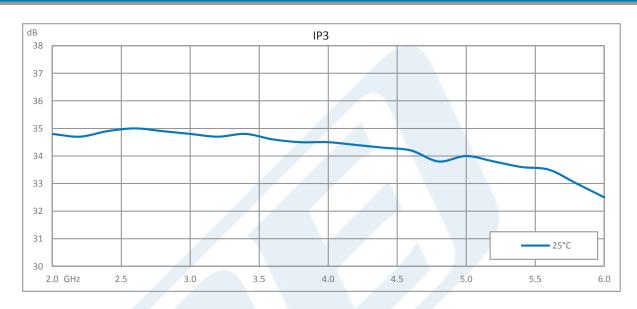
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23 dBm P1dB, 2 GHz to 6 GHz, Medium Power Broadband Amplifier, 13 dB Gain, 33 dBm IP3, 5.4 dB NF, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/6-ghz-medium-power-broadband-amplifier-13-db-gain-5.4-db-sma-pe15a4040-p.aspx

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PE15A4040 CAD Drawing 23 dBm P1dB, 2 GHz to 6 GHz, Medium Power Broadband Amplifier, 13 dB Gain, 33 dBm IP3, 5.4 dB NF, SMA

