



46 dB Gain, 24 dBm P1dB, 500 MHz to 2 GHz, Medium Power Broadband Amplifier, 34 dBm IP3, 2.7 dB NF, SMA

TECHNICAL DATA SHEET

PE15A3015

The PE15A3015 is a 24 dBm power amplifier designed for operation in the 0.5 GHz to 2 GHz frequency range. The amplifier provides an IP3 of 34 dBm Typ and 42 dB of Gain Min over the operating frequency range. The amplifier requires only +12 VDC power supply.

Features

- 0.5 GHz to 2.0 GHz Frequency Range
- P1dB 24 dBm min.
- IP3 34 dBm typ.
- Gain 42 dB min.
- Gain Flatness +/-0.8 dB

Applications

- Medium Power Amplifier
- Driver Amp
- Military Communications
- Radar Driver Stage
- Test & Measurement

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		2	GHz
Gain	42	46		dB
Gain Flatness		±0.8		dB
Output at 1 dB Compression Point	+24			dBm
Output 3 rd Intercept Point		+34		dBm
Noise Figure		2.7		dB
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage 1	11	12	15	Volts
Operating DC Current		300		mA
Operating Temperature Range (OTR)	-30		+70	°C

Mechanical Specifications

Size	
Length	1.35 in [34.29 mm]
Width	0.9 in [22.86 mm]
Height	0.5 in [12.7 mm]
Weight	0.084 lbs [38.1 g]
Input Connector	SMA Female
Output Connector	SMA Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [46 dB Gain, 24 dBm P1dB, 500 MHz to 2 GHz, Medium Power Broadband Amplifier, 34 dBm IP3, 2.7 dB NF, SMA PE15A3015](#)



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Environmental Specifications

Temperature

Operating Range

-30 to +70 deg C

Shock

Vibration

Temperature Cycling

RTCA, DO-160C

RTCA, DO-160C

MIL-STD-883, METHOD 1010

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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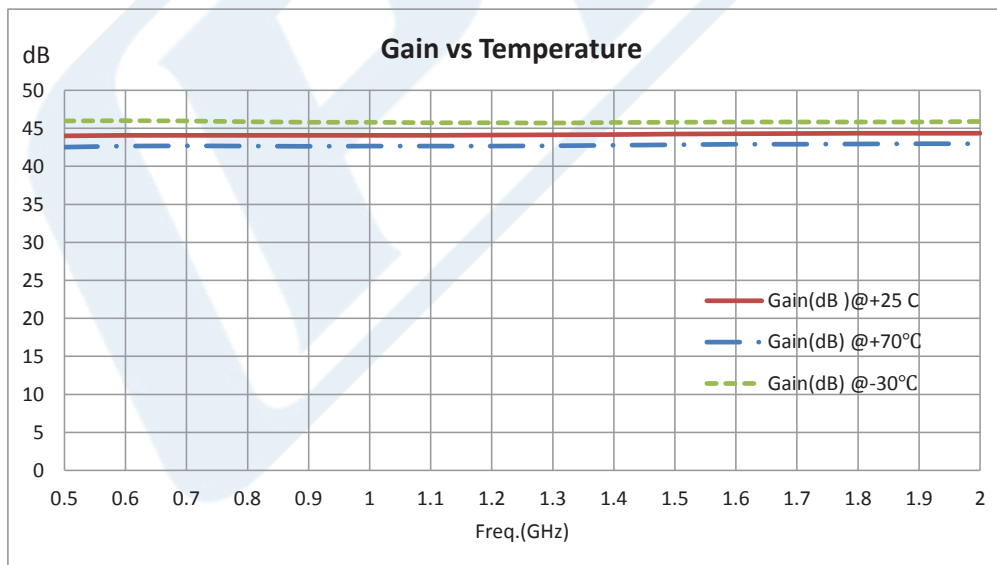
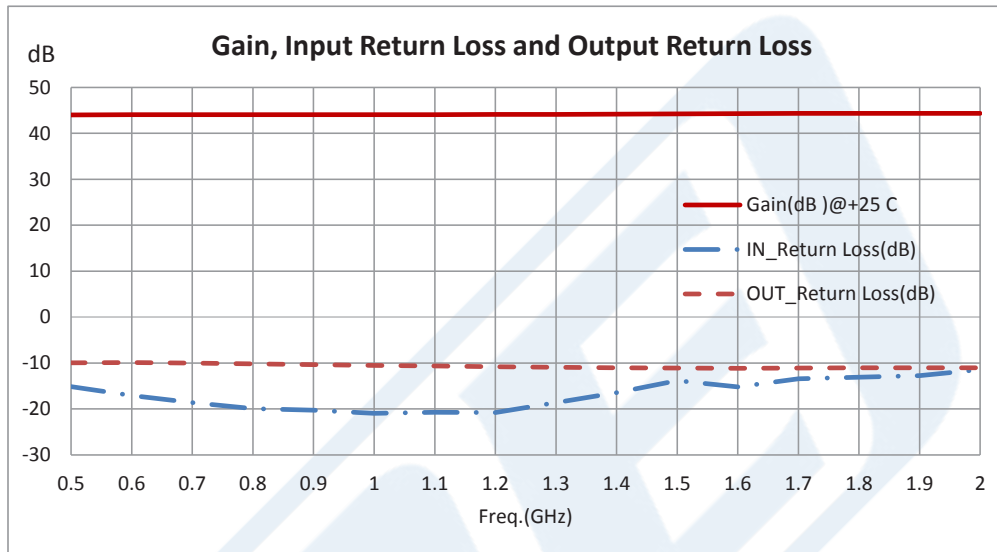


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Typical Performance Data



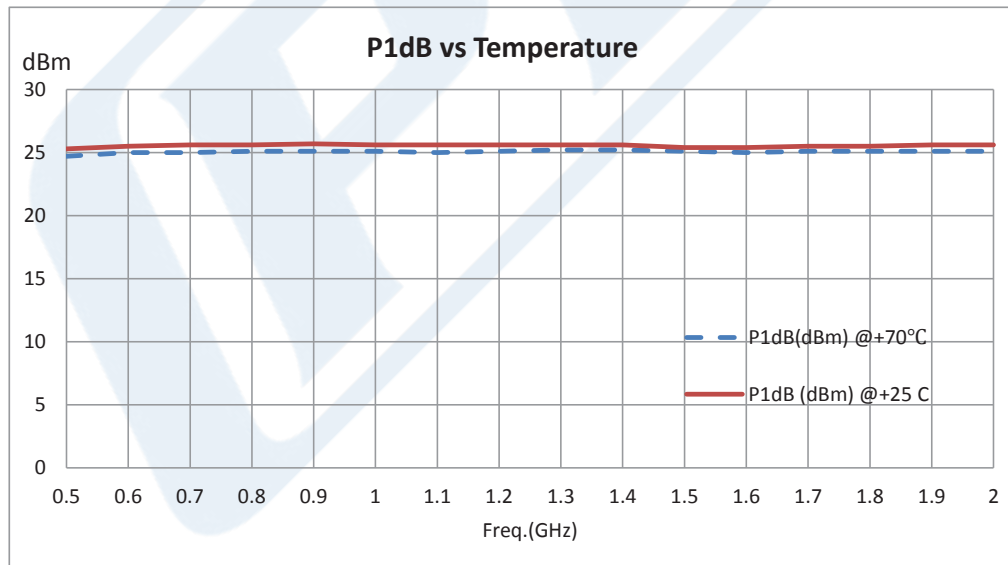
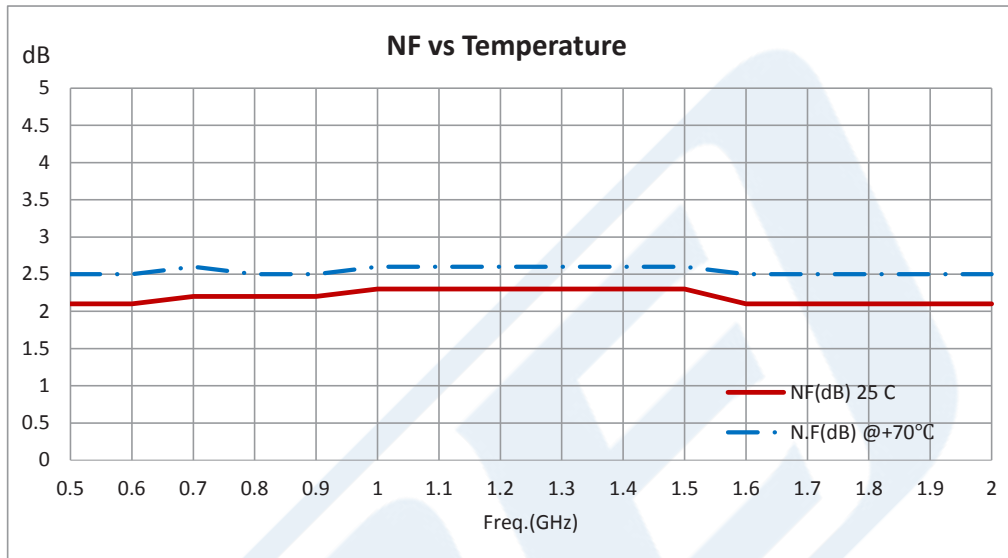
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46 dB Gain, 24 dBm P1dB, 500 MHz to 2 GHz, Medium Power Broadband Amplifier, 34 dBm IP3, 2.7 dB NF, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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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.

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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].

FSCM NO. 53919

CAD FILE 120814

SIZE A

2233