

dB NF, 13 dBm, 12 GHz toNoise Amplifer, 38 dB Gain,

PE15A1004 is a Ku-band coaxial low noise amplifer operating noise fgure, 13 dBm minimum of saturated power and high 3 of  $\pm 1.0 \, \text{dB}$  max. This technical performance is achieved thro devices. The low noise amplifer requires typically a +12V [ stable and includes built-in voltage regulation, bias seque operates over the temperature range of -40°C and +85°C.

#### Features

- 12 GHz to 18 GHz Frequency Ran4opeto 85° CeoOperatione
- Psat: 13 dBm min
- Unconditionally Stable Psat: 13 dBm min
  Unconditionally Stable
  High Small Signal Gain: 38 dRegulated Supply & Bias Seq
- Gain Flatness: ±1.0 dB max Hermetically Sealed Module Noise Figure: 3 dB Overvoltage External Protec
- 50 Ohm Input and Output Matched

### **Applications**

- Labor Appriy cations Test Instrumentatios natellite Communica
- Military & Space Low Nampleifer • R&D Labs
- Radar Systems Communication Systems Communication Systems Communication Systems
- Telecom Infrastruc•t Mirærowave Radio Sy•sGtaeims Block

Electrical S(pTeAci=f € 215°i Co, n sDC Voltage = 12 Volts, DC Current

Description	Minimum	Typical	Maximum	Units
Frequency Range	1 2		1 8	GHz
Small Signal Gain	3 8			d B
Gain Flatness			± 1	d B
Minimum Psat	+ 1 3			d B m
Noise Figure		3		d B
Input VSWR			2: 1	
Output VSWR			2: 1	
Operating DC Voltage	11	1 2	1 3	Volts
Operating DC Current			3 0 0	m A
Operating Temperature	Rangle		+ 8 5	° C

Click the following link (or enter part number in "SEARC inventory and odeBrtNiFf, calt3i odrBsm:, 12 GHz to 18 GHz, PE15A4V004Io is e



## **Absolute Maximum Rating**

Parameter	Rating	Units
Source Voltage	+15	Volts
RF input Power	+17	dBm
Operating Temperature (base-plate)	-40 to +85	°C
Storage Temperature	-55 to +85	°C



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

Compliance Ce(rvtiisficatvivvo.nPsasternack.com for current docume RoHS Compliant

### **Plotted and Other Data**

Notes:

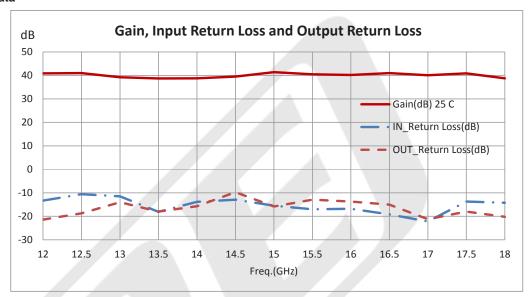
- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved E

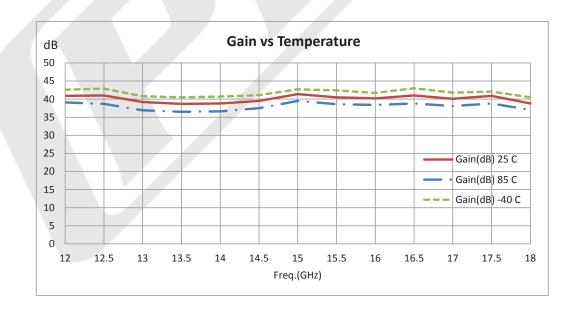
Click the following link (or enter part number in "SEARC inventory and odeBrtNiFf, calt3i odrBsm., 12 GHz to 18 GHz, PE15A4100441 ois e

PE15A1004 REV 1.0



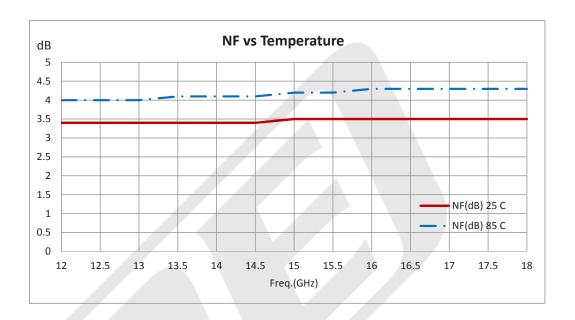
#### **Power Data**

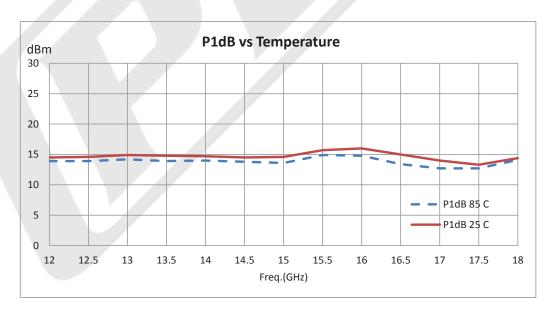




Click the following link (or enter part number in "SEARC inventory and odeBrtNiFf, calt3i odrBsm., 12 GHz to 18 GHz, PE15A410044 ois e







Click the following link (or enter part number in "SEARC inventory and cdeBrtNiFf, calt3i odrBsm., 12 GHz to 18 GHz, PE15Av1004Noise



3 dB NF, 13 dBm, 12 GHz to 18 GHz, Low Noise Amplifer, 38 shipment for domestic and International orders. Our RF, mi and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" inventory and a cdeBr tNiFf, calt3i od nBsm, 12 GHz to 18 GHz, PE15Av100Av10 is e A

URL: http://www.pasternack.com/3-db-18-ghz-low-noise-ampli

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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# **PE15A1004 CAD Drawing** 1 3 d B m, 1 2 G H z t

3 dB NF, 13 dBm, 12 GHz to 18 GHz, Low Noise

