

Gain,

PE15A1007 is a wideband low noise RF coaxial amplifer opera 2.5 dB noise fgure, 16 dBm of P1dB and high 32 dB minimum exceptional technical performance is achieved through the The low noise amplifer requires typically a +12V DC power and includes built-in voltage regulation. This low noise a and operates over the temperature range of -40°C and +85°C

### **Features**

- 9 kHz to 3 GHz Frequency RamoReverse Isolation: 65 dB
- P1dB: 16 dBm
- High Small Signal Gain: 32 dB 4m0 intiom w8m5 ° Tendoperationeg
- Gain Flatness: ±1.25 dB Unconditionally Stable
- Gai ar Vance: ±1 dB
- Noise Figure: 2.5dB
- 50 Ohm Input and Output Mat
- Single DC Positive Supply Builol⊦tang&r Regulator

# **Applications**

- Labor Appriy cations Military & Space General AP morphiofs ceation
- R&D Labs
- Communication Syst• eGmesneral Purpose Wir
- Military Radio
  Radar Systems
  Wireless Communica tWiodneband Gain Block
  Microwave Radio Systems
- Telecom Infrastruc Quelelular Base State iRdFn sWi deband Front E
- Test Instrumentation Inow Naminsleifer
- RF Pre-amplifcation

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	0		3	GHz
Small Signal Gain	3 2		3 6	d B
Gain Flatness		± 1 . 2 5	± 1 . 5	d B
Gain Variance at OTR	*	± 1		d B
Output at 1 dB Compr	essi ⊕1n 5 Poi	n t + 1 6		d B m
Noise Figure		2.5	3	d B
Input VSWR		1 . 6 : 1	2: 1	
Output VSWR		1 . 8 : 1	2.5:1	
Reverse Isolation	6 0	6 5		d B
Spurious			- 60	d B c
Operating DC Voltage		1 2		Volts
Operating DC Current	9 0	11 0	1 3 0	m A
Operating Temperatur	e Rangle		+ 7 5	° C

Click the following link (or enter part number in "SEARC inventory and 2.c5erdtBifNcFati1o6nsd:Bm, 0.009 MHz to 3 GH₽E15A110007w N



2.5 dB NF, 16 dBm, 0.009 MHz to 3 GHz, Noise Amplifer, 32 dB Gain, SMA

\*OTR= Base Plate Operating Temperature Range

## **Absolute Maximum Rating**

Parameter	Rating	Units
Source Voltage	+15	Volts
RF input Power	+5	dBm
Operating Temperature (base-plate)	-55 to +125	°C
Storage Temperature	-40 to +85	°C



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

Compliance Ce(rvtiisfica www.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

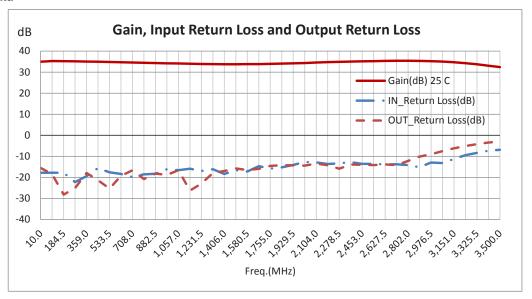
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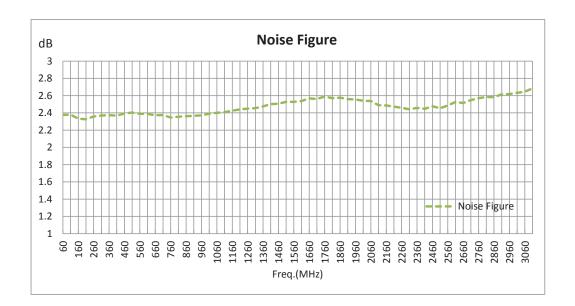
PE15A1007 REV 1.0



2.5 dB NF, 16 dBm, 0.009 MHz to 3 GHz Noise Amplifer, 32 dB Gain, SMA

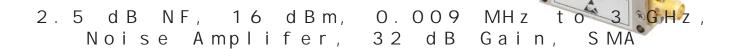
#### **Power Data**





Click the following link (or enter part number in "SEARC inventory and 2.c5erdtBifNcFati1o6nsd:Bm, 0.009 MHz to 3 GH₽€15A11007w N





 $2.\ 5\ dB$  NF,  $16\ dBm$ ,  $0.\ 009\ MHz$  to  $3\ GHz$ , Low Noise Amplifer, 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 2.c5erdtBifNdFati1o6nsd:Bm, 0.009 MHz to 3 GH₽E,15ALLO07w Noi

URL: http://www.pasternack.com/2.5-db-3-ghz-low-noise-ampl

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.

MH z NF,  $\mathsf{G}\,\mathsf{H}\,\mathsf{z}$  , 2.5 d B t o 3 Low Noi

