

1.4 dB NF, 11 dBm, 10 MHz t o Noise Amplifer, 34 dB Gain,

PE15A1009 is a wideband low noise RF coaxial power amplificant power amplifier offers 1.4 dB noise fgure, 11 dBm of P1dB and 34 $\,$ max. This exceptional technical performance is achieved th devices. The low noise amplifer requires typically a +12V [stable and includes built-in voltage regulation, bias sequoperates over the temperature range of -40°C and +85°C.

Features

- 10 MHz to 3 GHz Frequency Rank@everse Isolation: 50 dB
- P 1 d B1: d1B m

- 50 Ohms Input and Output Ma
- Flat Small Signal Gain: 34 dB40 to 85° Tendperatung
- Gain Flatness: ±0.75 dB Unconditionally Stable

• Noise Figure: 1.4 dB

- Gaiar Vance over OTR: ±1.25 de Regulated Supply & Bias Seq
 - Overvoltage Protection

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 Naminalei fer
- RF Pre-amplifcation

Electrical S(pTeAci=f**€25**°i Co, n SDC Voltage = 12 Volts, DC Current

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.01		3	GHz
Small Signal Gain	32.5	3 4	36.5	d B
Gain Flatness		± 0 . 7 5	± 1	d B
Gain Variance at OTR	k	± 1 . 2 5		d B
Output at 1 dB Compr	essi ⊕1h0Poi	n t + 1		d B m
Noise Figure		1 . 4	1.65	d B
Input VSWR		1 . 4 : 1	1 . 6 : 1	
Output VSWR		1 . 4 : 1	1 . 6 : 1	
Reverse Isolation	4 0	5 0		d B
Operating DC Voltage	1 0	1 2	1 5	Volts
Operating DC Current	8 5	9 5	1 0 5	m A
Operating Temperature	e RangleO		+ 8 5	° C

*OTR = Base Plate Operating Temperature Range

Click the following link (or enter part number in "SEARC inventory and 1.c4erdtBi fNcFatildinsd:Bm, 10 MHz to 3 GHz, PE1.5A.10009Nois



1.4 dB NF, 11 dBm, 10 MHz to 3 GHz Lo Noise Amplifer, 34 dB Gain, SMA

Absolute Maximum Rating

Parameter	Rating	Units
Source Voltage	+15	Volts
RF input Power	+10	dBm
Operating Temperature (base-plate)	-40 to +85	°C
Storage Temperature	-55 to +125	°C



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

Compliance Ce(rvtiisficatvivwo.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

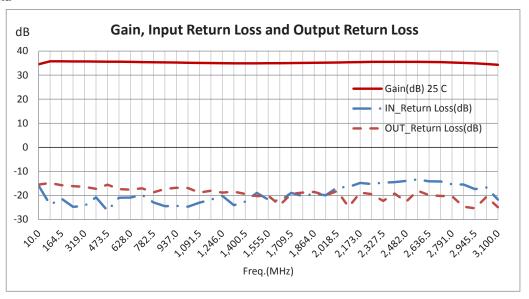
Click the following link (or enter part number in "SEARC inventory and c4erdtBifNcFatild nsd:Bm, 10 MHz to 3 GHz, PE15A10009Nois

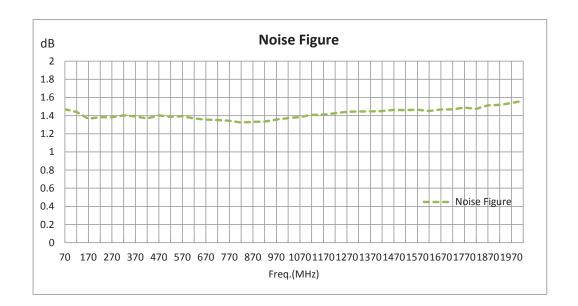
PE15A1009 REV 1.0



1.4 dB NF, 11 dBm, 10 MHz to 3 GHz Lo Noise Amplifer, 34 dB Gain, SMA

Power Data





Click the following link (or enter part number in "SEARC inventory and c4erdtBifNcFatildInsd:Bm, 10 MHz to 3 GHz, PE1.5A.10009Nois



1.4 dB NF, 11 dBm, 10 MHz to 3 GHz, Lov Noise Amplifer, 34 dB Gain, SMA

1.4 dB NF, 11 dBm, 10 MHz to 3 GHz, Low Noise Amplifer, 34 shipment for domestic and International orders. Our RF, mid and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" inventory and c4erdtBi fNcFatild n sd:B m, 10 MHz to 3 GHz, PE15A16009 No is e

URL: http://www.pasternack.com/1.4-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.

