

LNA Series

40 – 3000MHz 5V Low Noise Amplifier

Features

- Frequency Range: 40-3000MHz
- Gain: 17.5dB
- P_{1dB}: +19dBm
- IP3: +32dBm
- Noise Figure: 1.3dB
- DC Power: 5V/60mA
- SMA Connector

Picture



Performance measured @ 1000MHz

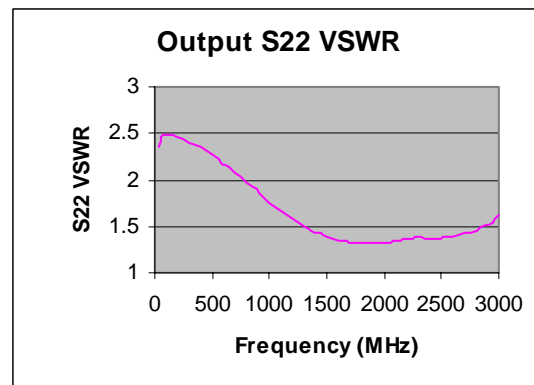
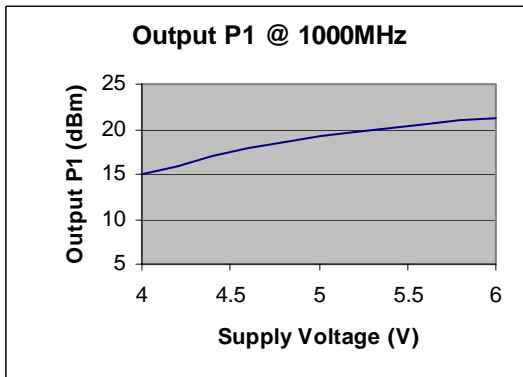
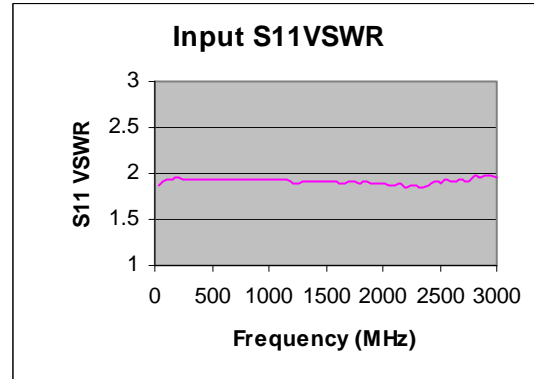
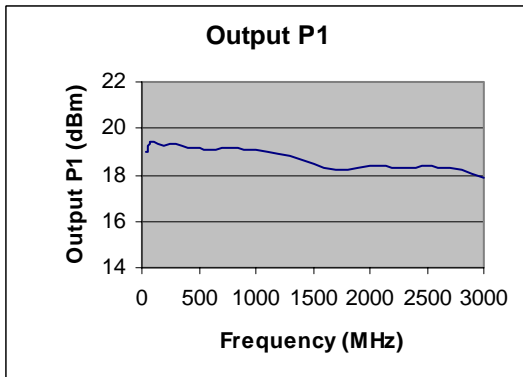
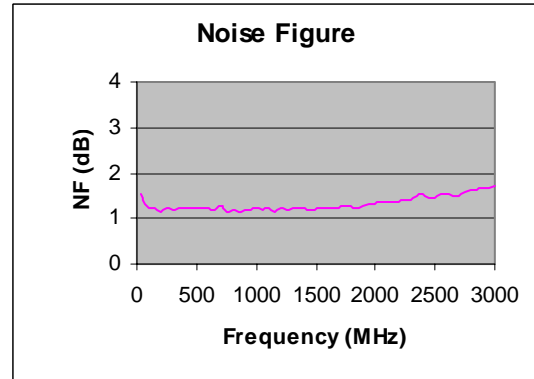
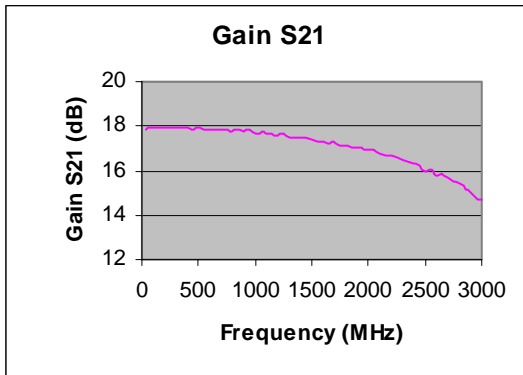
Description

LNA-3000B is a 5V Low Power 1.3dB Noise Figure Wideband Low Noise Amplifier operates with frequency range usable from 40 to 3000MHz.

Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	40		3000
Gain				
f = 40MHz	dB		17.8	
f = 1000MHz	dB		17.5	
f = 2000MHz	dB		16.9	
f = 3000MHz	dB		14.6	
P _{1dB}	dBm		+19	
IP3	dBm		+32	
Noise Figure	dB		1.3	
Reverse Isolation	dB		-20	
VSWR				
Input VSWR			2.0:1	
Output VSWR			2.0:1	
DC Power Supply	V	4.0	5.0	6.0
Supply Current	mA		60	

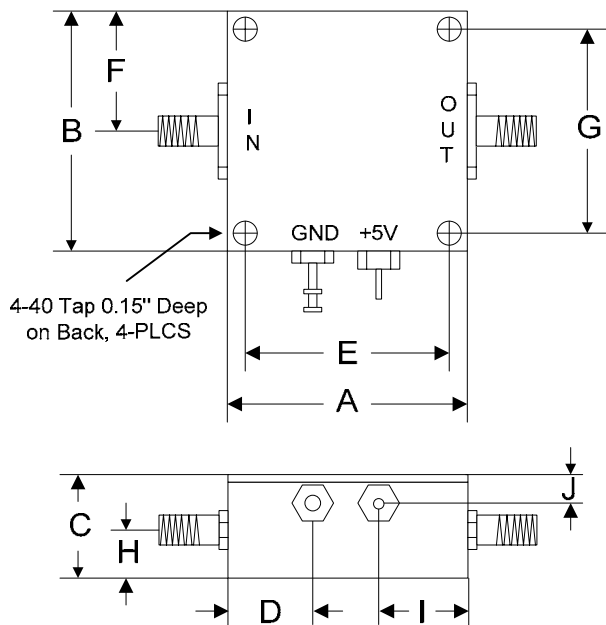
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+7V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76