

## FEATURES:

- 900 MHz ~ 1300 MHz;
- 18.0 dB Gain;
- 0.6 dB Noise Figure;
- 15.0 dBm P<sub>1dB</sub>;
- 30.0 dBm IP<sub>3</sub>;
- RoHS Compliant.

## APPLICATIONS:

- GPS;
- Avionics;
- Defense;
- Security System;
- Test & Measurement;
- Fixed Wireless.



# LNA09001300B, 900 MHz ~ 1300 MHz WIDE BAND LOW NOISE AMPLIFIER

## ELECTRICAL SPECIFICATIONS @ 21 °C

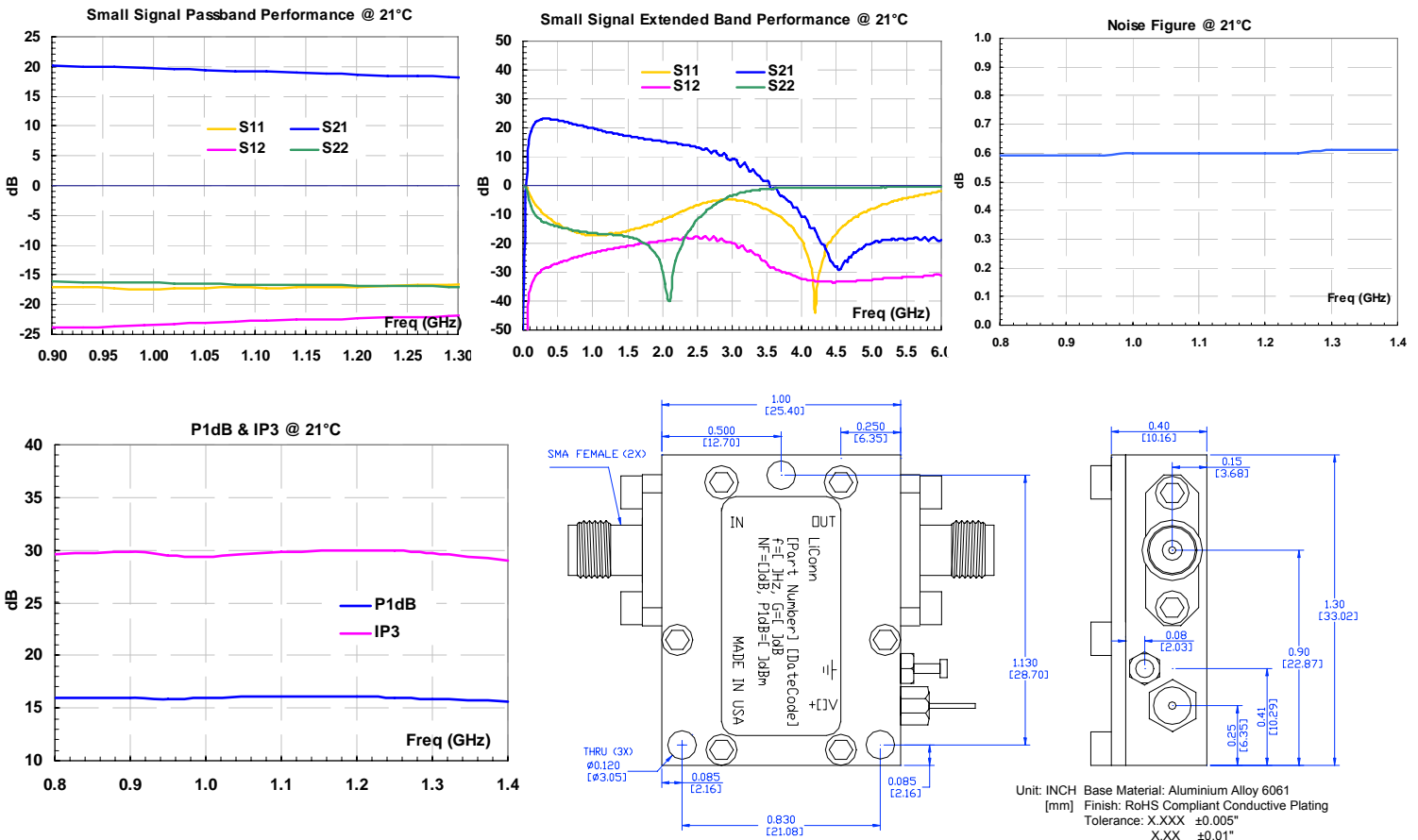
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	16	18	20
ΔG	Gain Flatness	dB		±0.5	±1.0
VSWR <sub>1</sub>	Input VSWR	Ratio	1.5:1	1.5:1	1.6:1
VSWR <sub>2</sub>	Output VSWR	Ratio	1.5:1	1.5:1	1.6:1
S <sub>12</sub>	Reverse Isolation	dB	20	22	
NF	Noise Figure	dB		0.6	0.7
OIP <sub>3</sub>	Output 3 <sup>rd</sup> Order Intercept	dBm	26	30	
P <sub>1dB</sub>	Output 1dB Gain Compression	dBm	13	15	
I <sub>dd</sub>	Device Current (V <sub>dd</sub> =+5V)	mA	40	50	
V <sub>dd</sub>	DC Power Supply Voltage	V	+4.7	+5.0	+5.5
Z <sub>0</sub>	Impedance	Ohm		50	

## ABSOLUTE MAXIMUM RATINGS<sup>1</sup>

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	150
CW RF Input Power	dBm	10
DC Supply Voltage	V	7.0
Drain Current	mA	80
Thermal Resistance	°C/W	215
Total Power Dissipation	mW	400
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55~+125

[1] Operation beyond these limits may cause permanent damage.

## ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



## ORDERING INFORMATION: LNA09001300B