

## FEATURES:

- 1.2 – 1.6 GHz;
- 32 dB Gain;
- 0.5 dB Noise Figure;
- 7.0 dBm P<sub>1dB</sub>;
- 17.0 dBm IP<sub>3</sub>;
- RoHS Compliant

## APPLICATIONS:

- GPS;
- Satellite Communication;
- Test & Measurement;
- Mobile Communication



# LNA12001600A, 1.2 – 1.6 GHz WIDE BAND LOW NOISE AMPLIFIER

## ELECTRICAL SPECIFICATIONS @ 25 °C

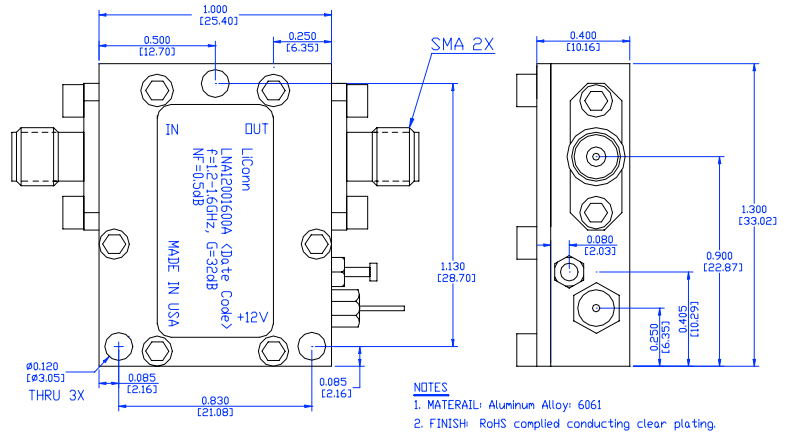
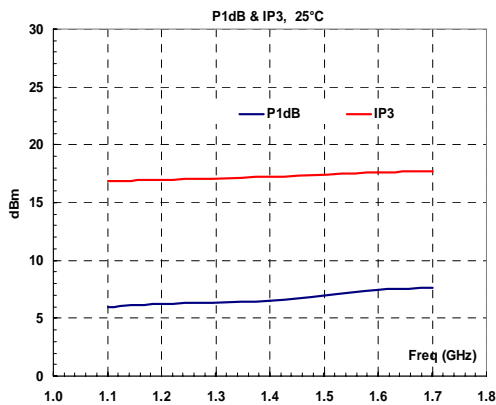
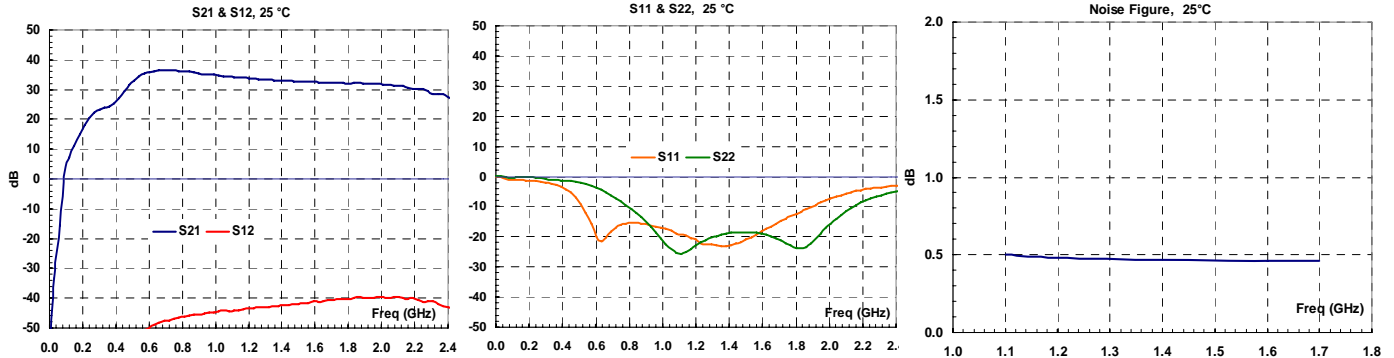
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
I <sub>d</sub>	Device Current	mA		25	
G	Gain	dB		32	
ΔG	Gain Flatness	dB		±0.7	
Z <sub>0</sub>	Impedance	Ohm		50	
NF	Noise Figure	dB		0.50	0.65
OIP3	Output 3 <sup>rd</sup> Order Intercept	dBm		17	
P <sub>1dB</sub>	Output 1dB Gain Compression	dBm		7	
S <sub>12</sub>	Reverse Isolation	dB		30	
V <sub>dd</sub>	DC Power Supply Voltage	V	7	12	30
S <sub>11</sub>	Input Return Loss	dB	14	18	
S <sub>22</sub>	Output Return Loss	dB	14	18	

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

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
Drain Current	mA	150
Operating Temperature	°C	+85
RF Input Power	dBm	+10
DC Supply Voltage	V	30
Storage Temperature	°C	+150
Thermal Resistance	°C/W	220
Total Power Dissipation	mW	600

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

## ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



## ORDERING INFORMATION: LNA12001600A