FEATURES:

- **900 MHz ~ 1200 MHz;**
- **19.5 dB Gain;**
- **0.8 dB Noise Figure;**
- **19.0 dBm P_{1dB};**
- **34.0 dBm IP_3;**
- **RoHS Compliant.**

APPLICATIONS:

- **Cellular Base Station;**
- **Wireless Data Communication;**
- **Tower Top Receiver;**
- **Test & Measurement.**

LNA09001200A, 900 MHz ~ 1200 MHz WIDE BAND LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 25 °C

Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB		19.5	
ΔG	Gain Flatness	dB		±0.2	±0.3
S_{12}	Reverse Isolation	dB	18	20	
S_{11}	Input Return Loss	dB	14	18	
S_{22}	Output Return Loss	dB	14	18	
NF	Noise Figure	dB		0.8	1.0
OIP_3	Output 3rd Order Intercept	dBm	32	34	
P_{1dB}	Output 1dB Gain Compression	dBm	18	19	
I_{dd}	Device Current (V_{dd}=+5V)	mA	55	60	70
V_{dd}	DC Power Supply Voltage	V	+4.7	+5.0	+5.3
Z_0	Impedance	Ohm		50	

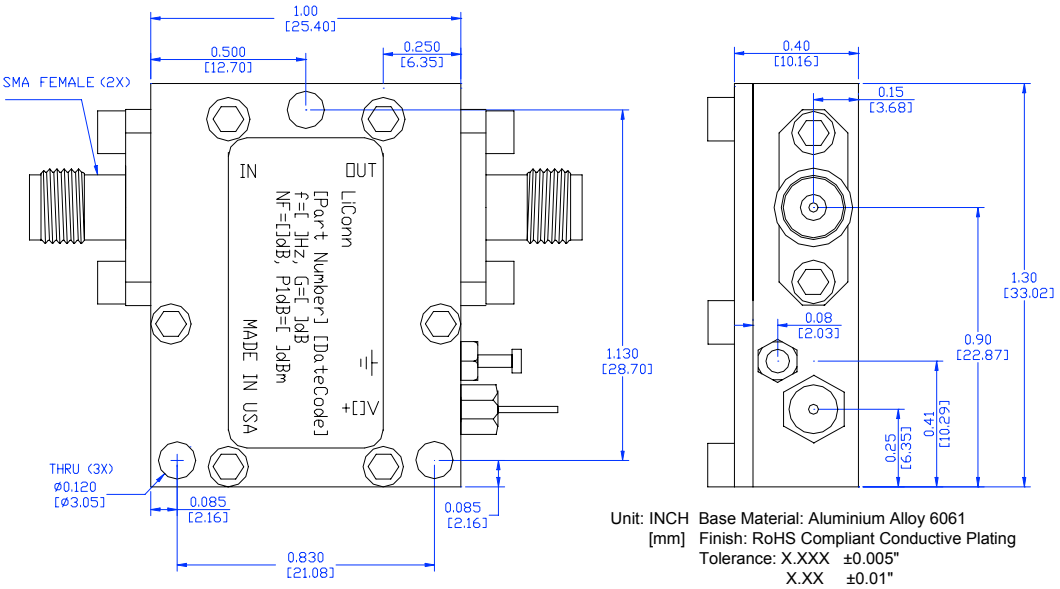
ABSOLUTE MAXIMUM RATINGS[1]

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.

Preliminary

MECHANICAL OUTLINE



Unit: INCH Base Material: Aluminium Alloy 6061
[mm] Finish: RoHS Compliant Conductive Plating
Tolerance: X.XXX ±0.005"
X.XX ±0.01"

ORDERING INFORMATION:
LNA09001200A

Tel: 1-651-482-1848
Fax: 1-651-482-1573

sales@liconn.com
http://www.liconn.com