

FEATURES:

- 900 MHz ~ 2200 MHz;
- 17 dB Gain;
- 1.1 dB Noise Figure;
- 15.0 dBm P_{1dB};
- 30.0 dBm IP₃;
- RoHS Compliant.

APPLICATIONS:

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



LNA09002200A, 900 MHz ~ 2200 MHz WIDE BAND LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	15	17	19
ΔG	Gain Flatness	dB		±0.5	±1.0
S ₁₂	Reverse Isolation	dB	16	18	
S ₁₁	Input Return Loss	dB	14	18	
S ₂₂	Output Return Loss	dB	14	18	
NF	Noise Figure	dB		1.1	1.5
OIP ₃	Output 3 rd Order Intercept	dBm	26	30	
P _{1dB}	Output 1dB Gain Compression	dBm	12	15	
I _{dd}	Device Current (V _{dd} =+5V)	mA		30	
V _{dd}	DC Power Supply Voltage	V	+4.7	+5.0	+5.3
Z ₀	Impedance	Ohm		50	

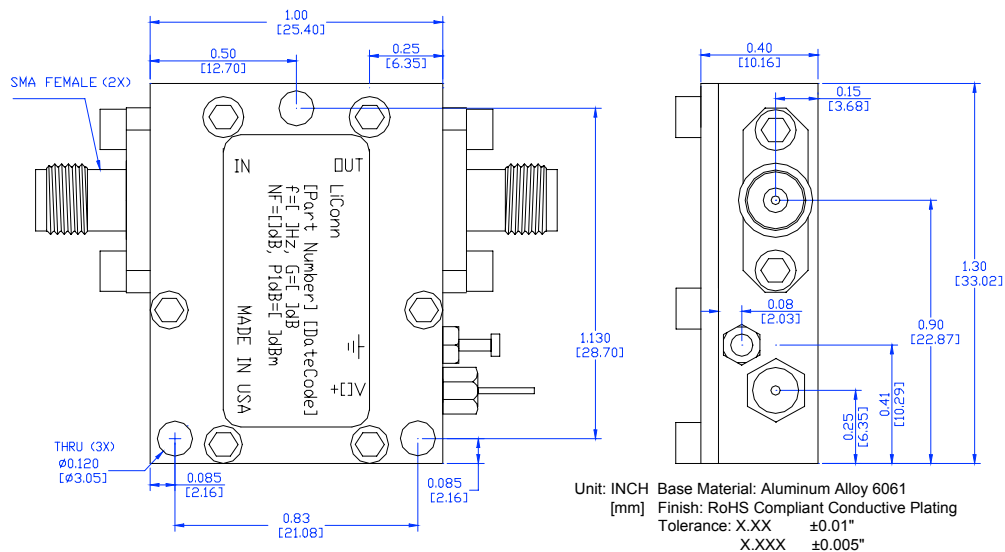
ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	150
CW RF Input Power	dBm	30
DC Supply Voltage	V	6.0
Drain Current	mA	50
Thermal Resistance	°C/W	220
Total Power Dissipation	mW	300
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

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

Preliminary

MECHANICAL OUTLINE



ORDERING INFORMATION: LNA09002200A