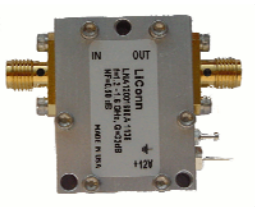
FEATURES:

- **1.2 GHz ~ 1.6 GHz;**
- **33 dB Gain;**
- **0.5 dB Noise Figure;**
- **7.0 dBm P_{1dB};**
- **17.0 dBm IP_3;**
- **RoHS Compliant.**

APPLICATIONS:

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



LNA12001600A, 1.2 GHz ~ 1.6 GHz WIDE BAND LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

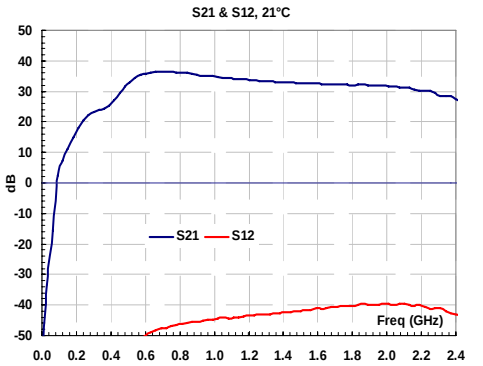
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB		33	
ΔG	Gain Flatness	dB		±0.7	
S_{11}	Input Return Loss	dB	14	18	
S_{22}	Output Return Loss	dB	14	18	
S_{12}	Reverse Isolation	dB		30	
NF	Noise Figure	dB		0.50	0.65
OIP_3	Output 3rd Order Intercept	dBm		17	
P_{1dB}	Output 1dB Gain Compression	dBm		7	
I_{dd}	Device Current (V_{dd}=+12V)	mA		25	
V_{dd}	DC Power Supply Voltage	V	+7	+12	+30
Z_0	Impedance	Ohm		50	

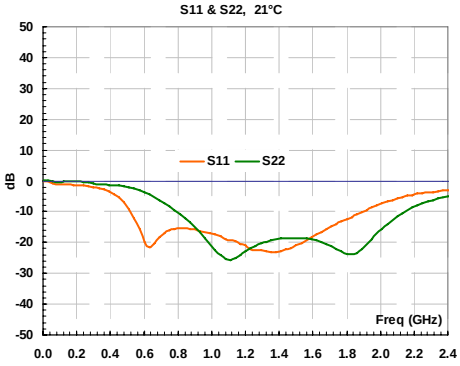
ABSOLUTE MAXIMUM RATINGS[1]

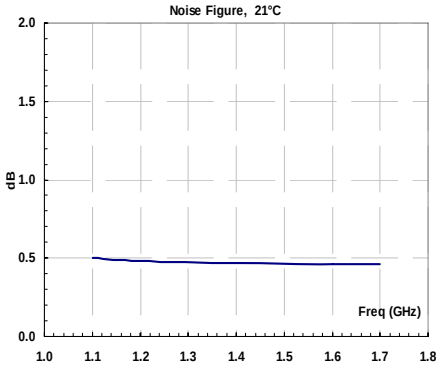
Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	150
CW RF Input Power	dBm	+10
DC Supply Voltage	V	30
Drain Current	mA	150
Thermal Resistance	°C/W	220
Total Power Dissipation	mW	600
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

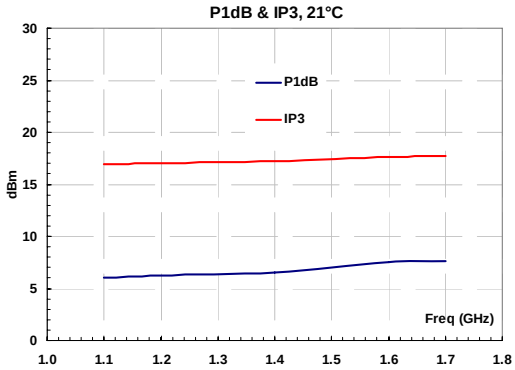
[1] Operation beyond these limits may cause permanent damage.

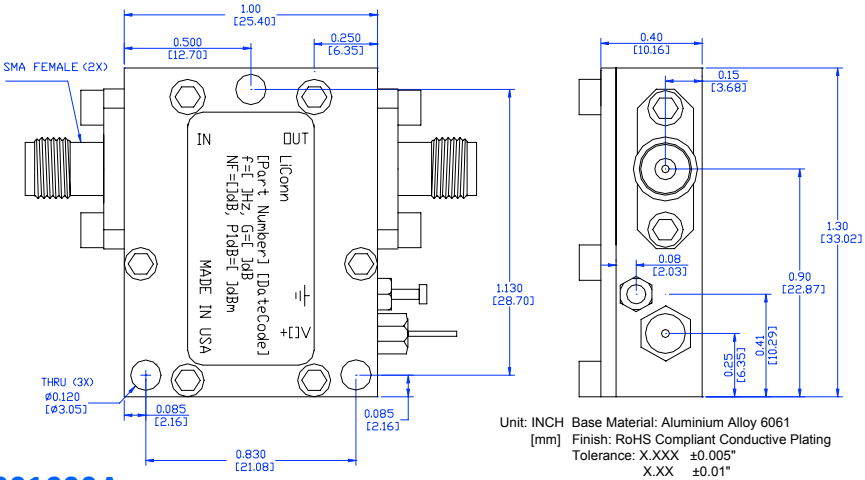
ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE











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

ORDERING INFORMATION: LNA12001600A

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