

FEATURES:

- 30 ~ 530 MHz;
- 24.0 dB Gain;
- 0.8 dB Noise Figure;
- 24.0 dBm P_{1dB};
- 36.0 dBm IP₃;
- RoHS Compliance

APPLICATIONS:

- VHF, UHF;
- Satellite Communication;
- Test & Measurement;
- Mobile Communication



LNA00300530A, 30 ~ 530 MHz WIDE BAND LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 25 °C

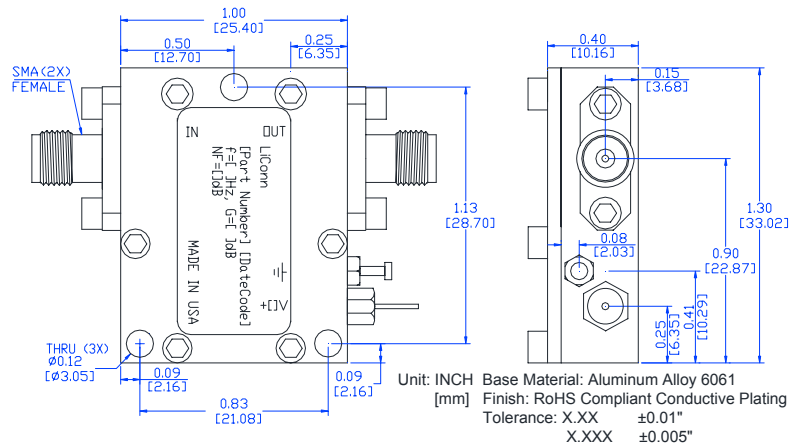
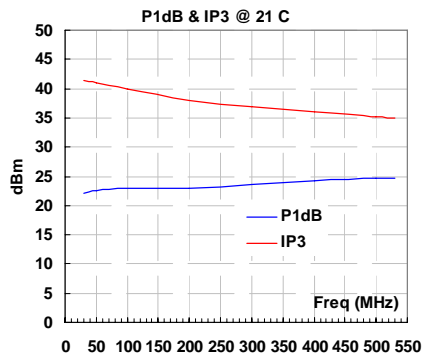
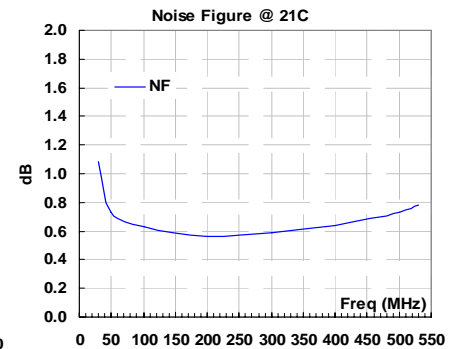
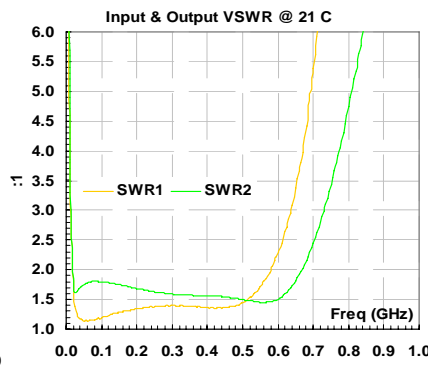
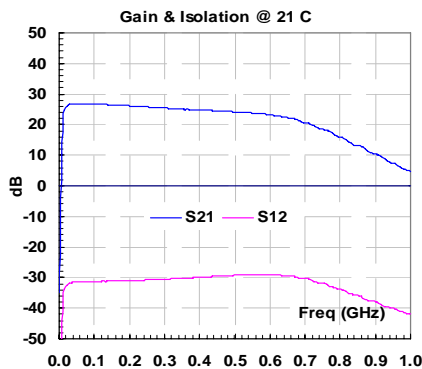
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB		24	
ΔG	Gain Flatness	dB		±1.0	
NF	Noise Figure, 100 – 530 MHz	dB	0.8	1.0	
OIP3	Output 3 rd Order Intercept	dBm		36	
P _{1dB}	Output 1dB Gain Compression	dBm		24	
S ₁₁	Input VSWR	:1		1.35	1.5
S ₁₂	Reverse Isolation	dB		20	
S ₂₂	Output Return Loss	:1		1.5	2.0
I _d	Device Current	mA		140	
V _{dd}	DC Power Supply Voltage	V	7	12	30
Z ₀	Impedance	Ohm		50	

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
Drain Current	mA	180
DC Supply Voltage	V	30
RF Input Power	dBm	+13
Thermal Resistance	°C/W	110
Total Power Dissipation	W	4.5
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: LNA00300530A