



FEATURES:

- 5.0 GHz ~ 7.0 GHz;
- 22 dB Gain;
- 0.9 dB Noise Figure;
- 10.0 dBm P_{1dB};
- 21.0 dBm IP₃;
- RoHS Compliant.

APPLICATIONS:

- ISM;
- Satellite Communication;
- Test & Measurement;
- Mobile Communication.



LNA50007000A, 5.0 GHz ~ 7.0 GHz WIDE BAND LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

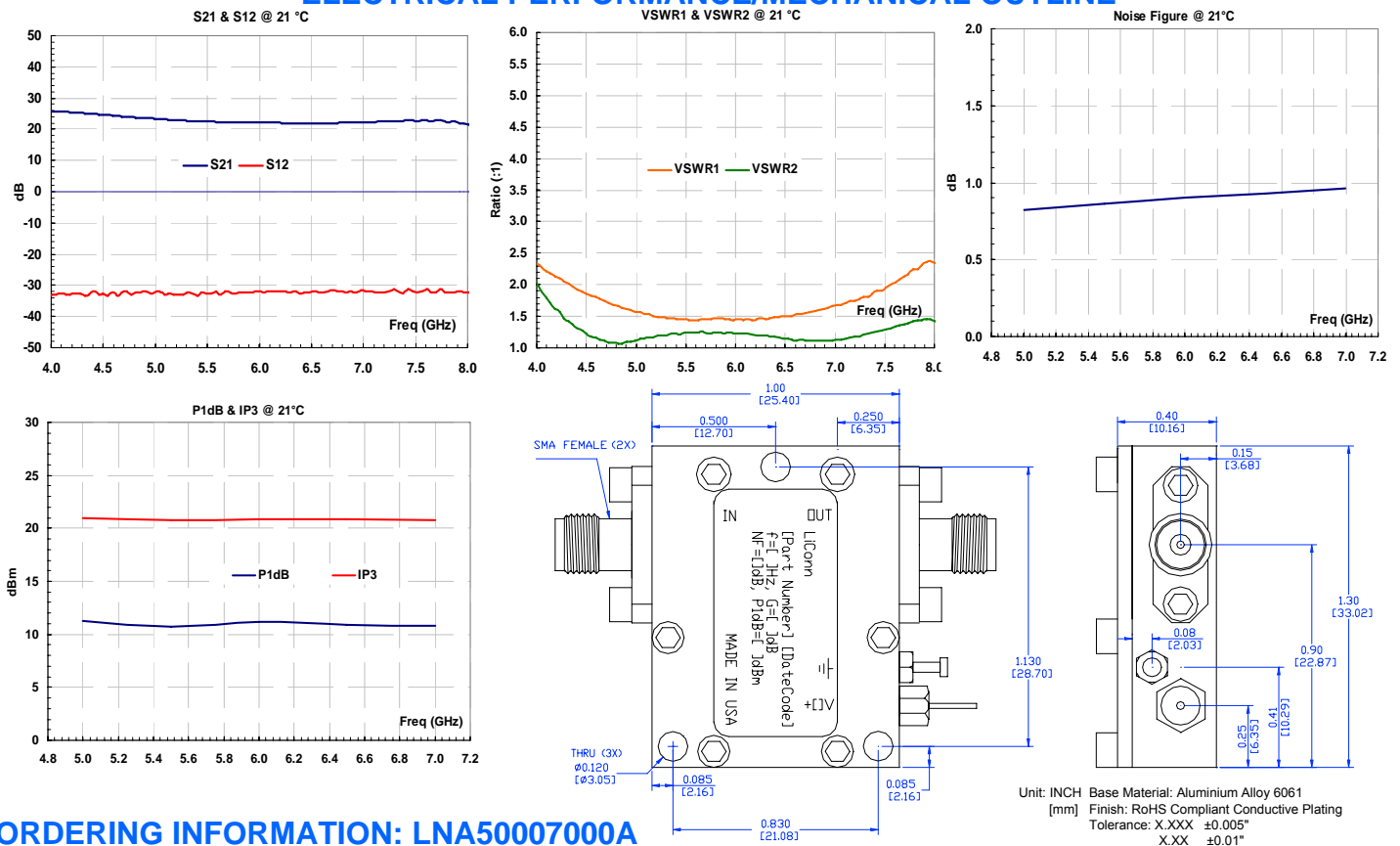
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB		22	
ΔG	Gain Flatness	dB		±1.0	
VSWR ₁	Input VSWR	Ratio		1.5:1	1.8:1
VSWR ₂	Output VSWR	Ratio		1.3:1	1.5:1
S ₁₂	Reverse Isolation	dB		30	
NF	Noise Figure	dB		0.90	1.1
OIP ₃	Output 3 rd Order Intercept	dBm		21	
P _{1dB}	Output 1dB Gain Compression	dBm		10	
I _{dd}	Device Current (V _{dd} =+12V)	mA		40	
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
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



ORDERING INFORMATION: LNA50007000A