

## FEATURES:

- 8 GHz ~ 18 GHz;
- 21.0 dB Gain;
- 2.2 dB Noise Figure;
- 10.0 dBm P<sub>1dB</sub>;
- ± 1.0 dB Gain Flatness;
- RoHS Compliant.

## APPLICATIONS:

- Wideband;
- Data Communication;
- Measurement.



# LNA800018000A, 8 GHz ~ 18 GHz LOW NOISE AMPLIFIER

## ELECTRICAL SPECIFICATIONS @ 21 °C

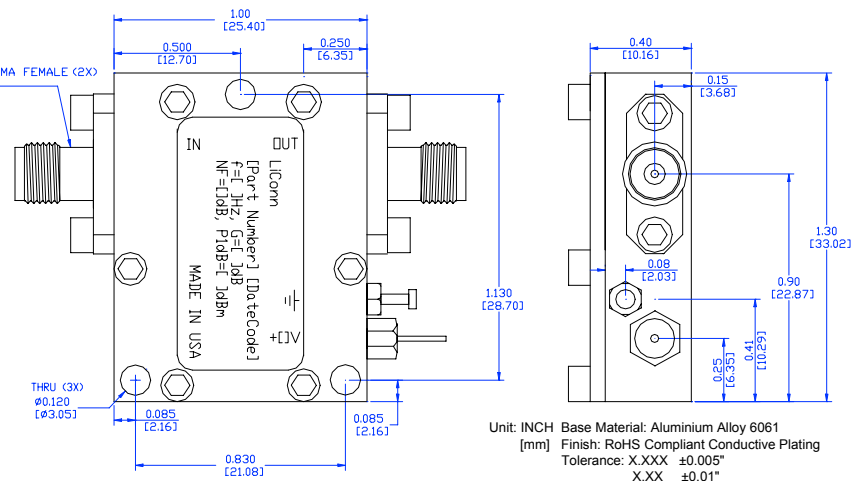
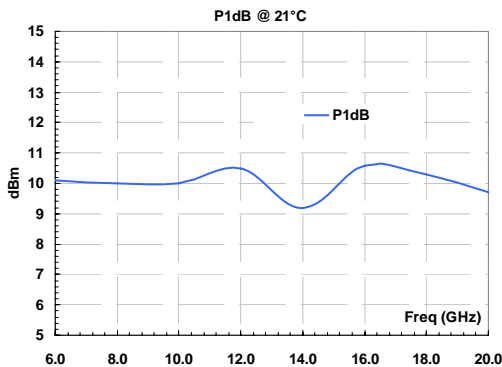
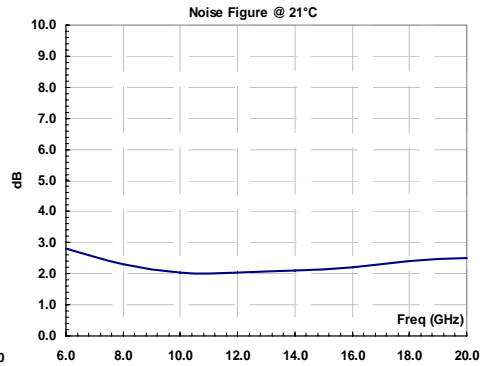
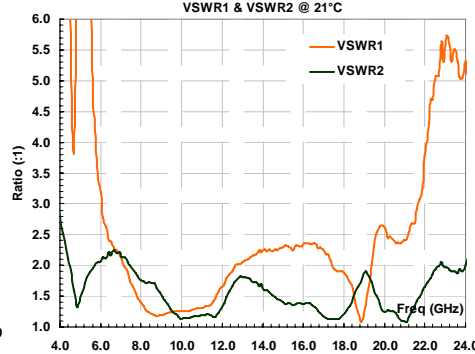
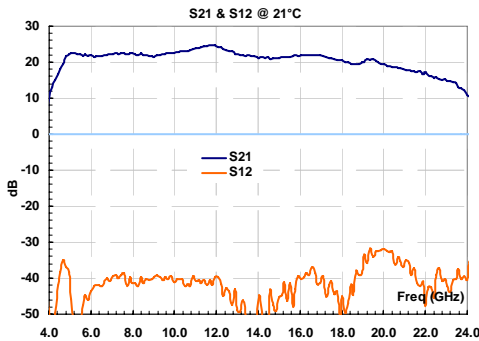
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB		21	
ΔG	Gain Flatness	dB		±1.0	±1.5
VSWR <sub>1</sub>	Input VSWR	Ratio		1.8:1	2.4:1
VSWR <sub>2</sub>	Output VSWR	Ratio		1.5:1	2.0:1
S <sub>12</sub>	Reverse Isolation	dB		35	
NF	Noise Figure	dB		2.2	
P <sub>1dB</sub>	Output 1dB Gain Compression	dBm		10	
I <sub>dd</sub>	Device Current (V <sub>dd</sub> =+12V)	mA		60	
V <sub>dd</sub>	Positive Power Supply Voltage	V	+11.5	+12	+15
Z <sub>0</sub>	Impedance	Ohm		50	

## ABSOLUTE MAXIMUM RATINGS<sup>1</sup>

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
CW RF Input Power	dBm	15
DC Supply Voltage	V	16
Drain Current	mA	80
Thermal Resistance	°C/W	50
Total Power Dissipation	W	1.2
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: LNA800018000A