

FEATURES:

- 8 GHz ~ 18 GHz;
- 21.0 dB Gain;
- 2.2 dB Noise Figure;
- 10.0 dBm P_{1dB};
- ± 1.0 dB Gain Flatness;
- RoHS Compliant.

APPLICATIONS:

- Wideband;
- Data Communication;
- Measurement.



LNA800018000A, 8 GHz ~ 18 GHz LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

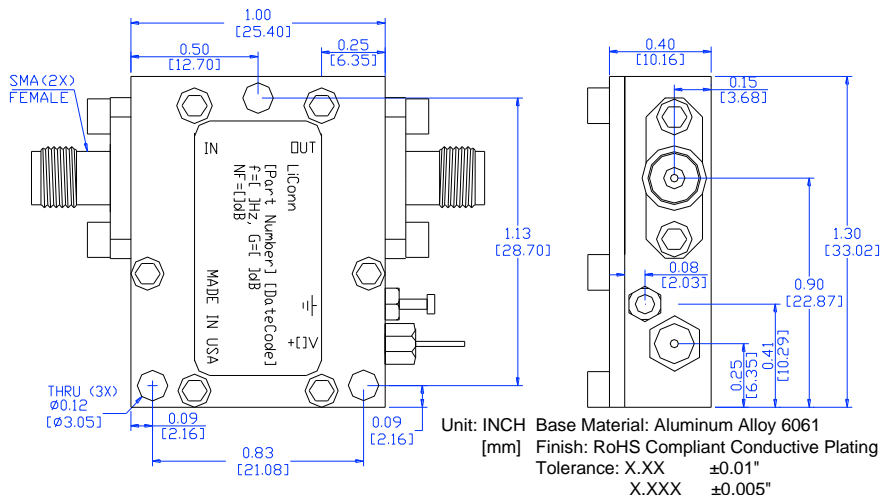
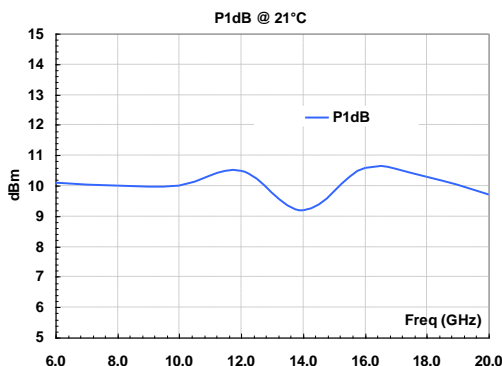
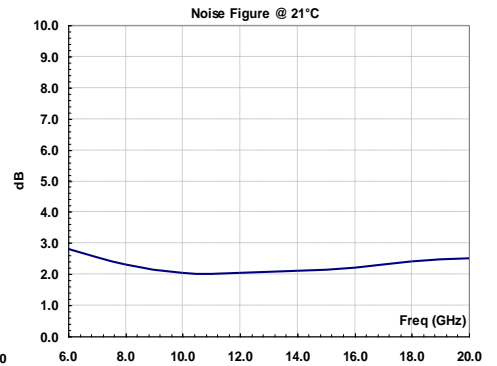
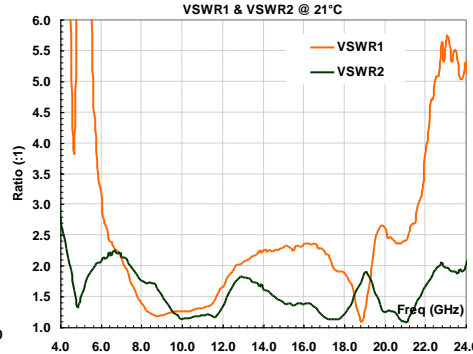
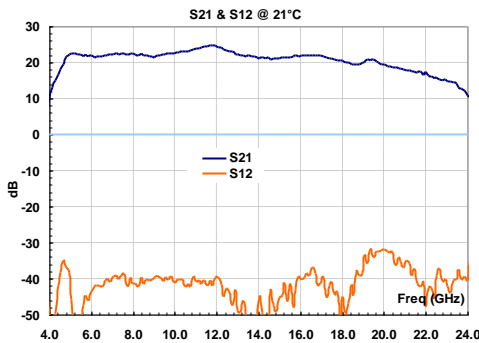
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB		21	
ΔG	Gain Flatness	dB		±1.0	
VSWR ₁	Input VSWR	Ratio		1.8:1	2.4:1
VSWR ₂	Output VSWR	Ratio		1.5:1	2.0:1
S ₁₂	Reverse Isolation	dB		35	
NF	Noise Figure	dB		2.2	
P _{1dB}	Output 1dB Gain Compression	dBm		10	
I _{dd}	Device Current (V _{dd}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

ABSOLUTE MAXIMUM RATINGS¹

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