FEATURES:

- 8 – 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 – 18 GHz LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 25 °C

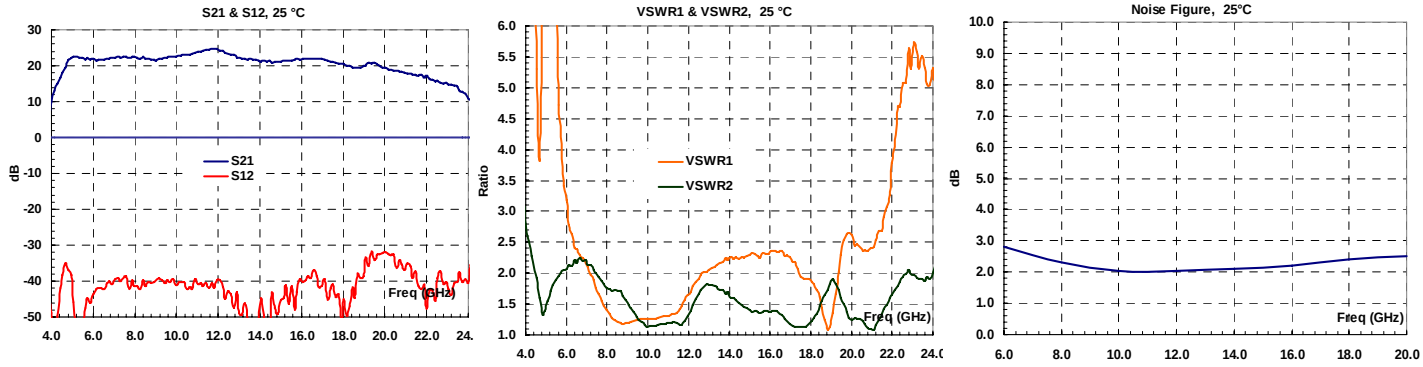
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB		21	
ΔG	Gain Flatness	dB		±1.0	±1.5
I_d	Device Current	mA		60	
NF	Noise Figure	dB		2.2	
S_{12}	Reverse Isolation	dB		35	
P_{1dB}	Output 1dB Gain Compression	dBm		10	
SWR_1	Input VSWR	Ratio		1.8:1	2.4:1
SWR_2	Output VSWR	Ratio		1.5:1	2.0:1
V_{dd}	Positive Power Supply Voltage	V	+11.5	+12	+15

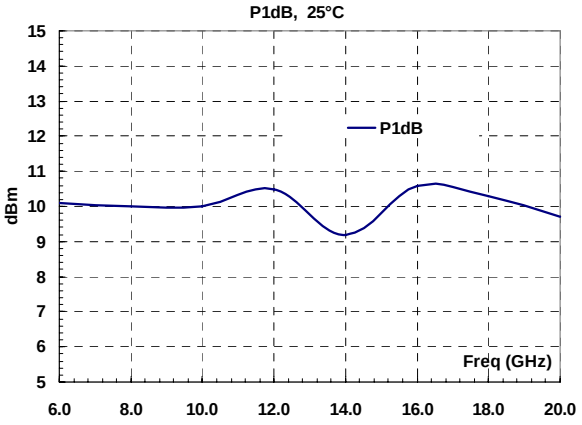
ABSOLUTE MAXIMUM RATINGS[1]

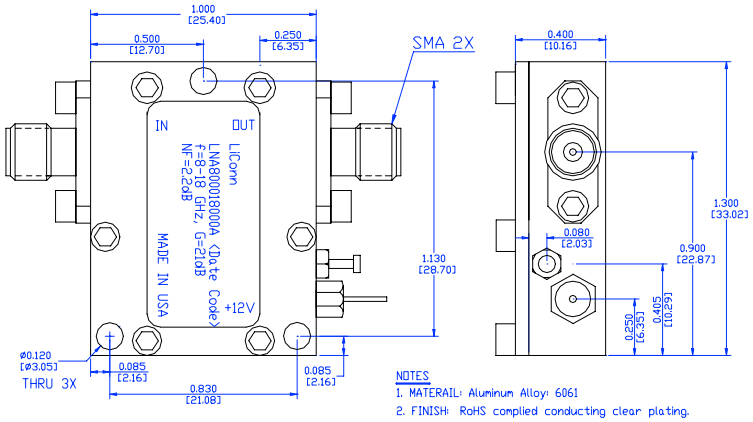
Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
DC Supply Voltage	V	16
Drain Current	mA	80
RF Input Power	dBm	15
Total Power Dissipation	W	1.2
Thermal Resistance	°C/W	50
Storage Temperature	°C	-55 ~ +125
Operating Temperature	°C	-40 ~ +85

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

ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE







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