



FEATURES:

- 0.1 – 6.0 GHz;
- 14.0 dB Gain;
- 1.1 dB Noise Figure;
- 15.0 P1dB;
- 27.0 dBm IP3;
- RoHS Compliant

APPLICATIONS:

- Cellular;
- GPS; PCS; 3G;
- WiMAX;
- C-Band;
- Test & Measurement



LNA01006000A – 0.1 ~ 6.0 GHz WIDE BAND AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 25 °C

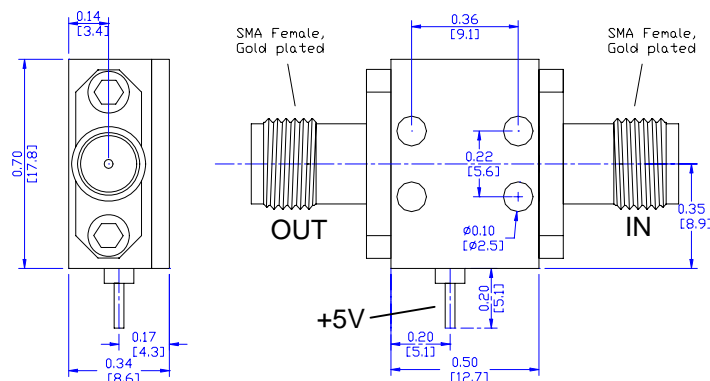
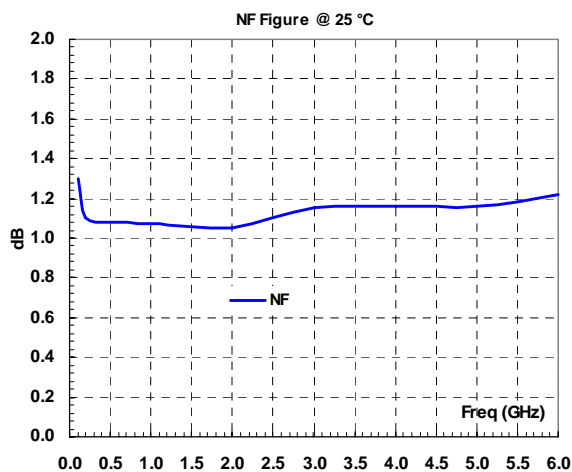
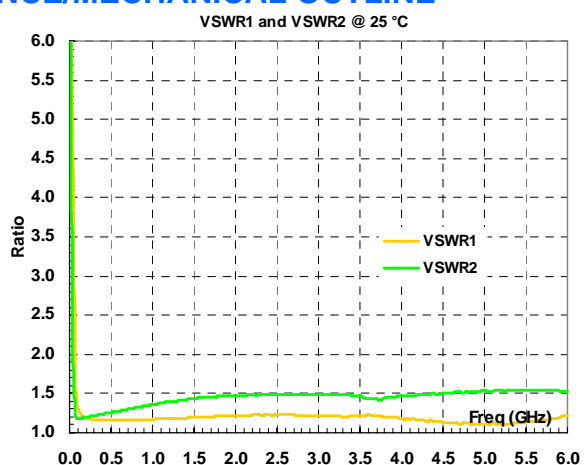
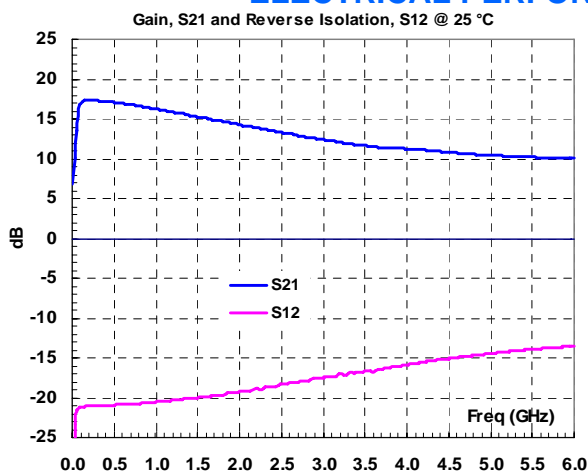
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
F	Operating Frequency	GHz	0.1		6
G	Gain	dB		14	
I _d	Device Current	mA		30	
Z ₀	Impedance	Ohm		50	
OIP3	Output 3 rd Order Intercept	dBm		27	
NF	Noise Figure	dB		1.1	1.5
P _{1dB}	Output 1dB Gain Compression	dBm		15	
S ₁₂	Reverse Isolation	dB		-20	
V _{dd}	DC Power Supply Voltage	V	4.5	5.0	6.0
VSWR ₁	VSWR – Input	Ratio		1.25	
VSWR ₂	VSWR – Output	Ratio		1.5	

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
Drain Current	mA	70
Operating Temperature	°C	+85
RF Input Power	dBm	+10
RF Output Supply Voltage	V	8
Storage Temperature	°C	+150
Thermal Resistance	°C/W	230

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

ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



ORDERING INFORMATION: LNA01006000A