

FEATURES:

- 1.2 – 9.0 GHz;
- 24.0 dB Gain;
- 3.0 dB Noise Figure;
- 17.5 dBm P_{1dB} ;
- 29.0 dBm IP_3 ;
- Unconditional Stable;
- RoHS Compliant

APPLICATIONS:

- Radar;
- Receivers;
- ECM System;
- WBA Systems;
- Point to Point;
- Test & Measurement;
- Wide Band PA Driver



LNA12009000A – 1.2 ~ 9.0 GHz WIDE BAND AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 25 °C

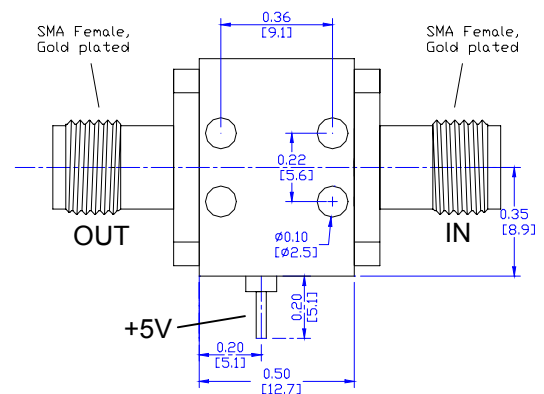
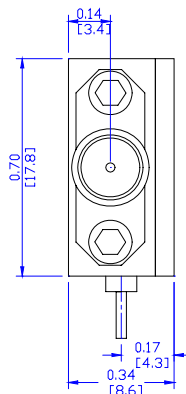
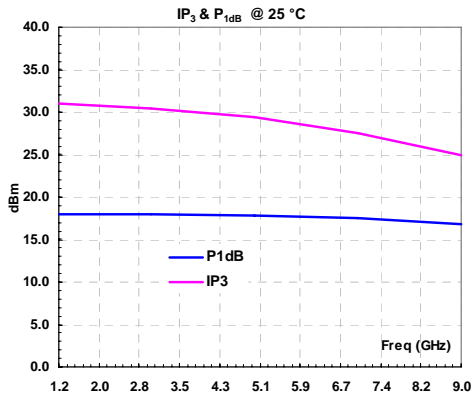
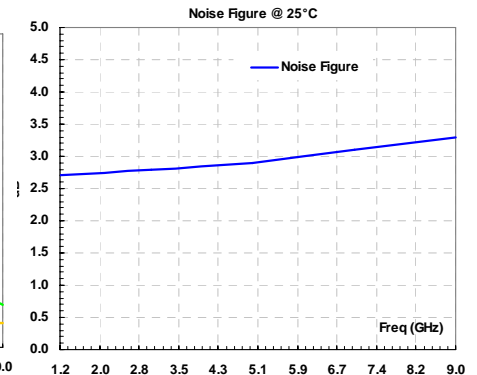
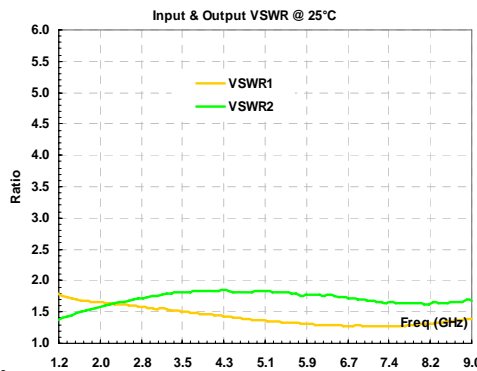
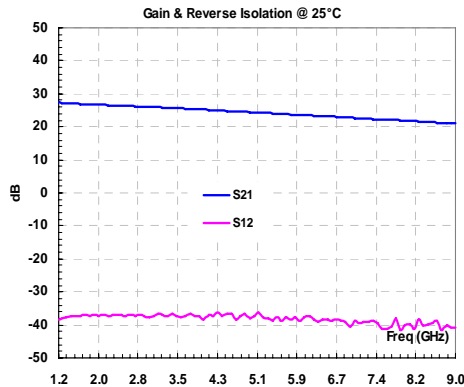
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
I_d	Device Current	mA		110	
G	Gain	dB	21	24	
ΔG	Gain Flatness	dB		± 3	
Z_0	Impedance	Ohm		50	
OIP3	Output 3 rd Order Intercept	dBm		29	
NF	Noise Figure	dB		3.0	3.7
P_{1dB}	Output 1dB Gain Compression	dBm		17.5	
S_{12}	Reverse Isolation	dB		-38	
V_{dd}	DC Power Supply Voltage	V	4.5	5.0	6.0
$VSWR_1$	VSWR – Input	Ratio		1.43:1	1.80:1
$VSWR_2$	VSWR – Output	Ratio		1.70:1	1.85:1

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
Drain Current	mA	150
Operating Temperature	°C	+85
RF Input Power	dBm	+20
RF Output Supply Voltage	V	8
Storage Temperature	°C	+150
Thermal Resistance	°C/W	140
Total Power Dissipation	mW	750

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

ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



ORDERING INFORMATION: LNA12009000A