

FEATURES:

- 8.0 GHz ~ 13.0 GHz;
- 50 ohm;
- 2.0 dB Noise Figure;
- 22.0 dB Gain;
- 10.0 dBm P_{1dB};
- RoHS Compliant.

ORDER INFORMATION:

Model Number	Input	Output
LNA800013000B	SMA Female	SMA Female

Preliminary

LNA800013000B, 8.0 GHz ~ 13.0 GHz WIDE BAND LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

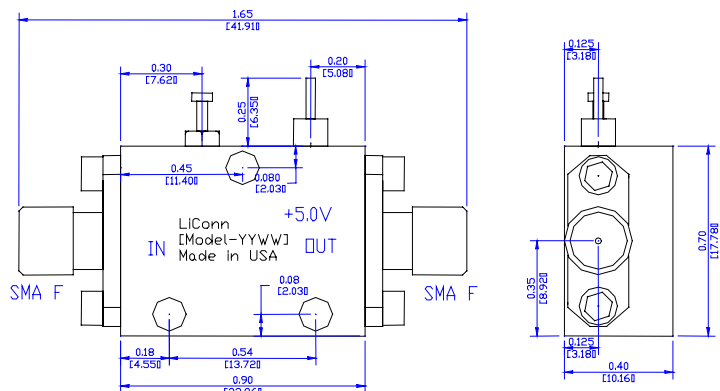
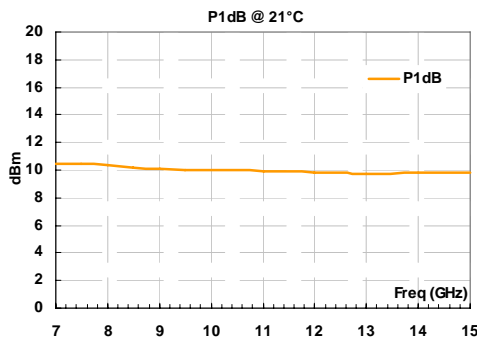
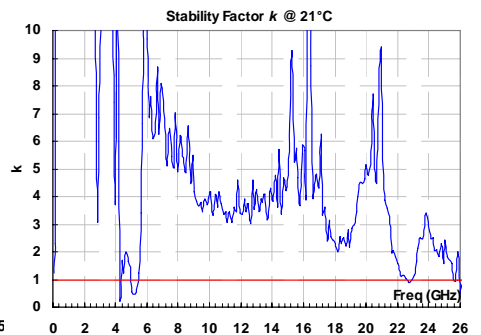
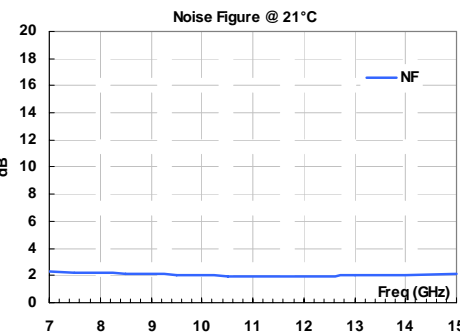
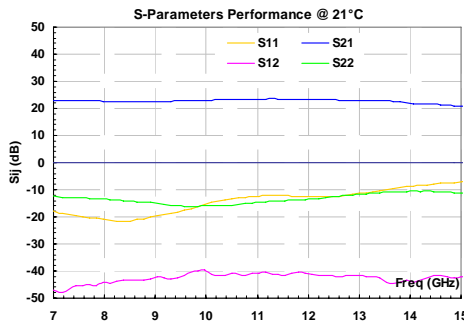
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB		22	
ΔG	Gain Flatness	dB		±0.5	±1.0
S ₁₁	Input Return Loss	dB	10	12	
S ₁₂	Reverse Isolation	dB	30	40	
S ₂₂	Output Return Loss	dB	10	12	
NF	Noise Figure	dB		2.0	2.5
P _{1dB}	Output 1dB Gain Compression	dBm	9	10	
P _{in,max}	Maximum Average RF Input Power	dBm			10
I _{dd}	Device Current (V _{dd} =+5V)	mA	55	60	65
V _{dd}	Positive Power Supply Voltage	V	+4.8	+5.0	+5.2
Z ₀	Impedance	Ohm		50	

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	150
CW RF Input Power	dBm	10
DC Supply Voltage	V	6.0
Drain Current	mA	80
Thermal Resistance	°C/W	30
Total Power Dissipation	mW	500
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

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

ELECTRICAL PERFORMANCE/ MECHANICAL OUTLINE



Notes:

1. Base Material: Brass
2. Finish: Gold Plating

Unit: Inch[mm]
RF Ports: SMA Female