

## FEATURES:

- 20.0 MHz– 6.0 GHz;
- 18 dB Gain;
- 2 W Output Power;
- Single DC Power;
- RoHS Compliant.

## APPLICATIONS:

- Ultra Broadband Amplifier;
- Fiber Optic Driver;
- Test Instrument;
- EMC Amplifier Driver;
- LTE Measurement.



# LPA00206000A, 20.0 MHz ~ 6.0 GHz WIDE BAND 2W AMPLIFIER

## ELECTRICAL SPECIFICATIONS @ 21 °C

Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Small Signal Gain	dB		18	
VSWR <sub>1</sub>	VSWR – Input	Ratio			2.4:1
VSWR <sub>2</sub>	VSWR – Output	Ratio			2.4:1
S <sub>12</sub>	Reverse Isolation	dB	30		
P <sub>sat</sub>	Output Saturate Power	dBm	33		
I <sub>dd</sub>	Quiescent Current (V <sub>dd</sub> =+28V)	mA		120	
V <sub>dd</sub>	DC Power Supply Voltage	V	24	28	30
Z <sub>0</sub>	Impedance	Ohm		50	

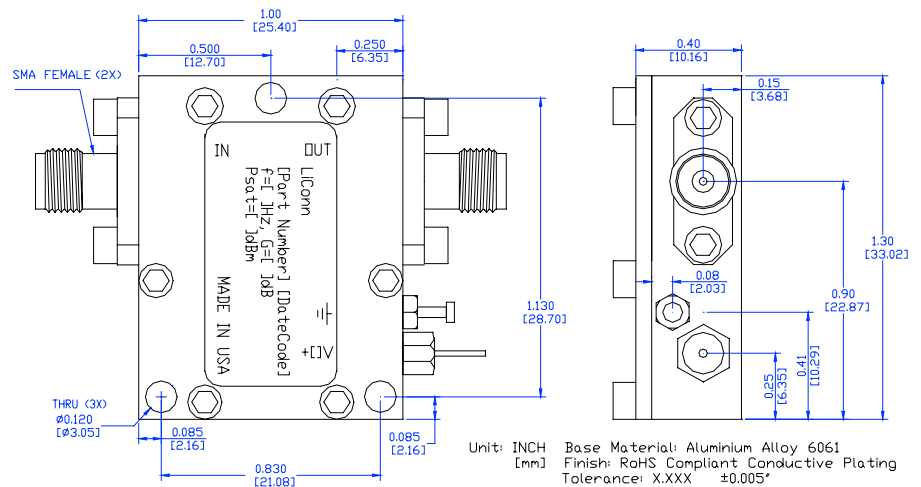
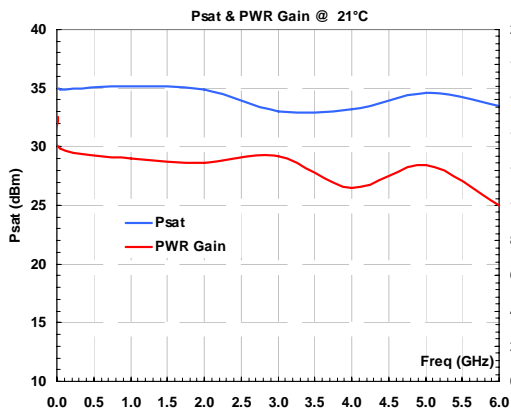
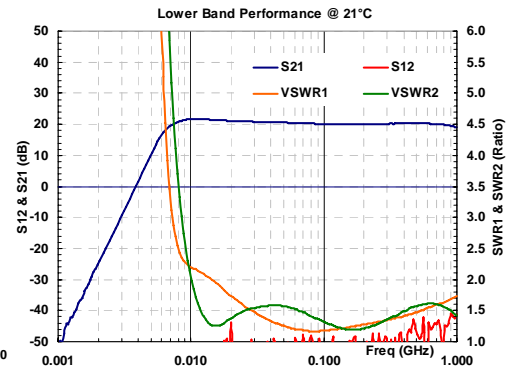
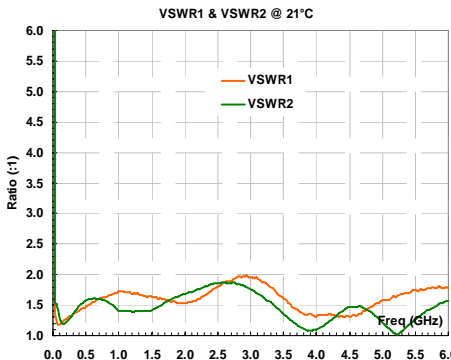
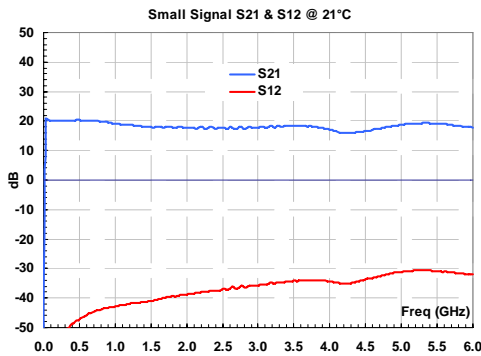
## ABSOLUTE MAXIMUM RATINGS<sup>1</sup>

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+220
CW RF Input Power	dBm	+27
DC Supply Voltage	V	32
Drain Current	mA	600
Thermal Resistance	°C/W	4.5
Total Power Dissipation	W	15
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

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

## Additional Heat Sink Required

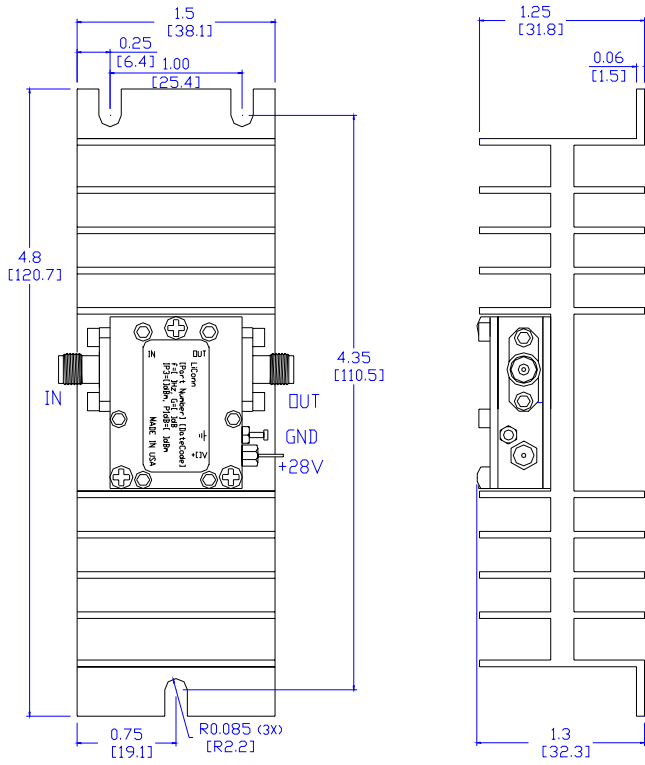
### ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



## ORDERING INFORMATION:

**LPA00206000A,**  
**LPA00206000A-H(Heat Sink Assembled)**

## LPA00206000A-H Mechanical Outline:



Unit: Inch  
[mm]

Tolerance:  
X.X:  $\pm 0.025''$   
X.XX:  $\pm 0.015''$   
X.XXX:  $\pm 0.01''$

Heat Sink Material: Aluminum  
Heat Sink Finish: Black Anodized