



### FEATURES:

- 1.0 GHz ~ 6.0 GHz;
- 18 dB Gain;
- 2 W Output Power;
- Single DC Power;
- RoHS Compliant;
- Made In USA.

### APPLICATIONS:

- Wide Band Amplifier;
- Fiber Optic Driver;
- Test Instrument;
- EMC Amplifier Driver;
- LTE Measurement.



## LPA1060A, 1.0 GHz ~ 6.0 GHz WIDE BAND 2W AMPLIFIER

### ELECTRICAL SPECIFICATIONS @ 21 °C

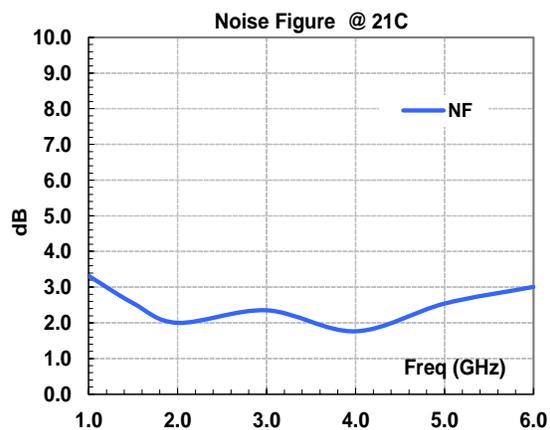
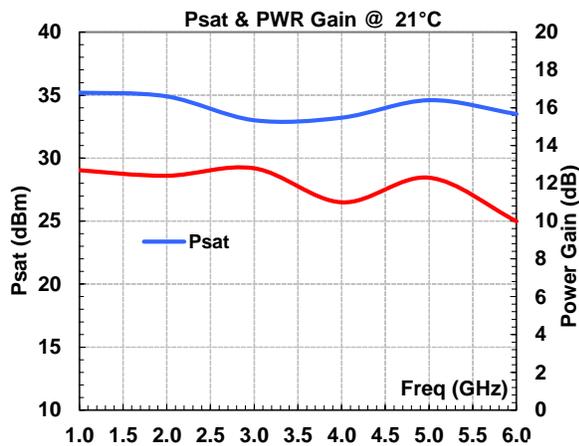
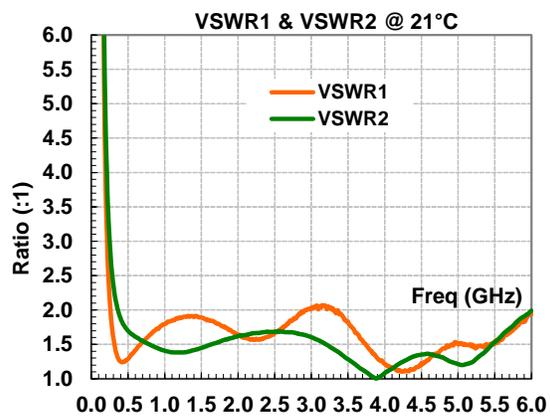
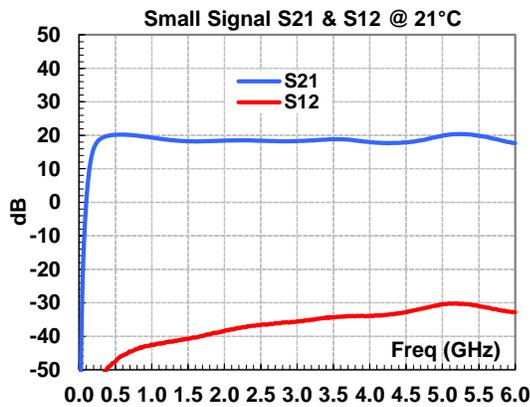
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Small Signal Gain	dB		18	
VSWR <sub>1</sub>	VSWR – Input	Ratio			2.4:1
VSWR <sub>2</sub>	VSWR – Output	Ratio			2.4:1
S <sub>12</sub>	Reverse Isolation	dB		35	
NF	Noise Figure	dB		2.5	
P <sub>sat</sub>	Output Saturate Power	dBm	33		
I <sub>dd</sub>	Quiescent 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.

### ELECTRICAL PERFORMANCE



### ORDERING INFORMATION:

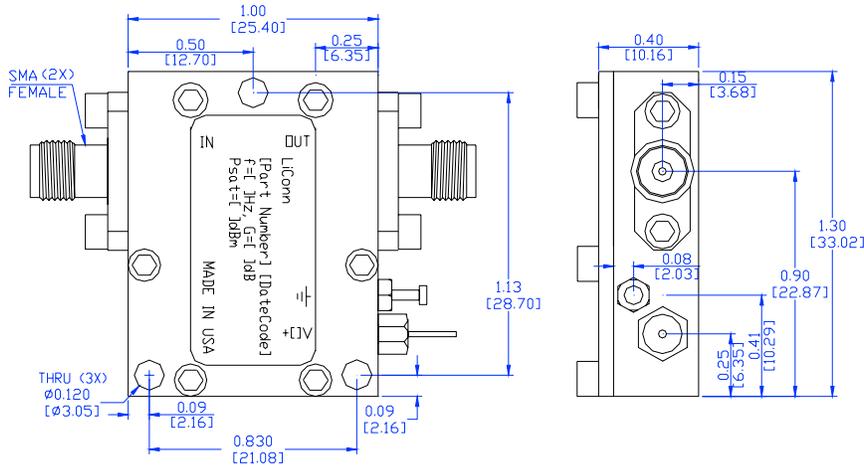
- LPA1060A
- LPA1060A-TTL (TTL Enabled: Power On @+5V, Power Off @ 0V)
- LPA1060A-H (Heat Sink Assembled)
- LPA1060A-TTL-H (TTL Enabled and Heat Sink Assembled)

Additional Heat Sink Required

# LPA1060A, 1.0 GHz ~ 6.0 GHz WIDE BAND 2W AMPLIFIER

## MECHANICAL OUTLINE:

### LPA1060A



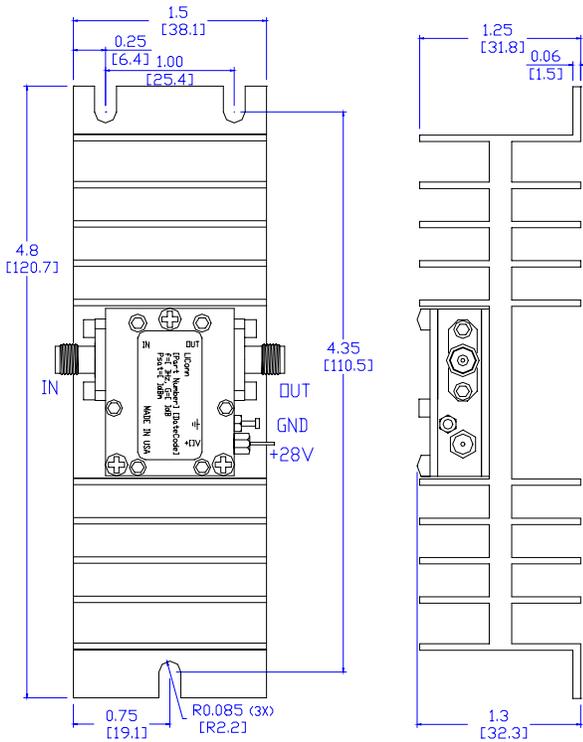
Unit: Inch  
[mm]

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

Housing:  
Base Material: Aluminum Alloy 6061  
Finish: RoHS Compliant Conductive Plating

Heat Sink:  
Base Material: Aluminum  
Finish: Black Anodized

### LPA1060A-H



### LPA1060A-TTL-H

