

## FEATURES:

- 6.0 GHz ~ 18.0 GHz;
- 12.0 dB Gain;
- 4.5 dB Noise Figure;
- 19.0 dBm P<sub>1dB</sub>;
- 28.0 dBm IP<sub>3</sub>;
- RoHS Compliant.

## APPLICATIONS:

- Wideband;
- Data Communication;
- Measurement.



# LPA600018000A, 6.0 GHz ~ 18.0 GHz MEDIUM POWER AMPLIFIER

## ELECTRICAL SPECIFICATIONS @ 21 °C

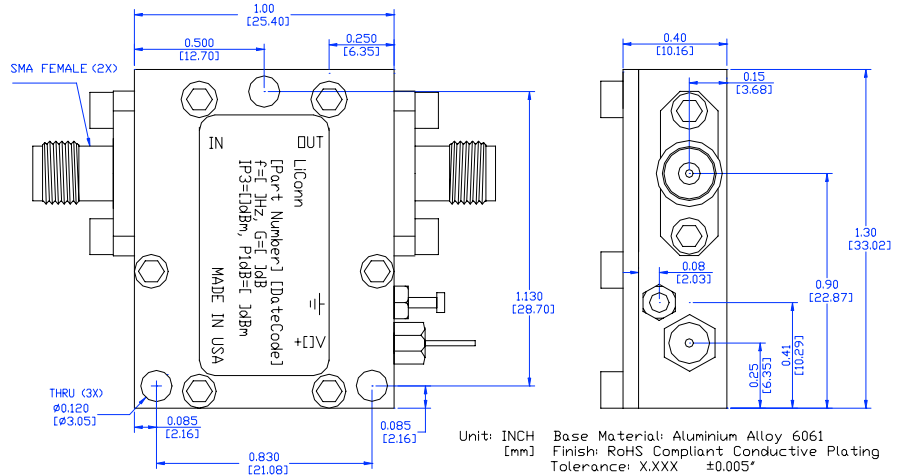
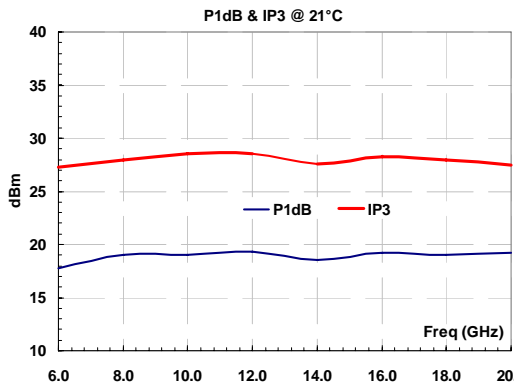
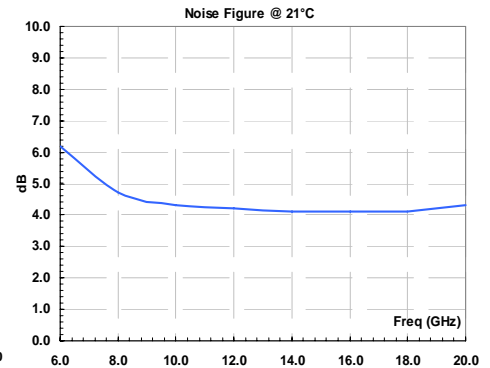
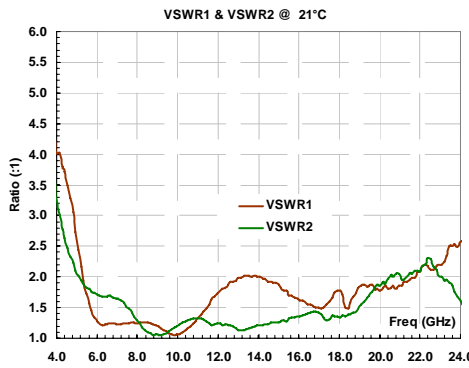
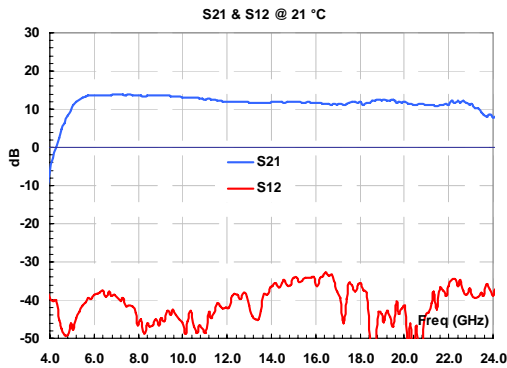
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	10	12	
ΔG	Gain Flatness	dB		±1.0	±1.5
VSWR <sub>1</sub>	Input VSWR	Ratio		1.5:1	2.2:1
VSWR <sub>2</sub>	Output VSWR	Ratio		1.3:1	2.0:1
S <sub>12</sub>	Reverse Isolation	dB		35	
NF	Noise Figure	dB		4.5	
OIP <sub>3</sub>	Output 3 <sup>rd</sup> Order Intercept	dBm		28	
P <sub>1dB</sub>	Output 1dB Gain Compression	dBm	17	19	
I <sub>dd</sub>	Device Current (V <sub>dd</sub> =+12V)	mA		110	
V <sub>dd</sub>	Positive Power Supply Voltage	V	+11.5	+12	+15
Z <sub>0</sub>	Impedance	Ohm		50	

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

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
CW RF Input Power	dBm	23
DC Supply Voltage	V	16
Drain Current	mA	150
Thermal Resistance	°C/W	40
Total Power Dissipation	W	2.0
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

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

## ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



## ORDERING INFORMATION: LPA600018000A