

FEATURES:

- 6 – 18 GHz;
- 12.0 dB Gain;
- 4.5 dB Noise Figure;
- 19.0 dBm P_{1dB};
- 28.0 dBm IP₃;
- RoHS Compliant.

APPLICATIONS:

- Wideband;
- Data Communication;
- Measurement.



LPA600018000A, 6 – 18 GHz MEDIUM POWER AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 25 °C

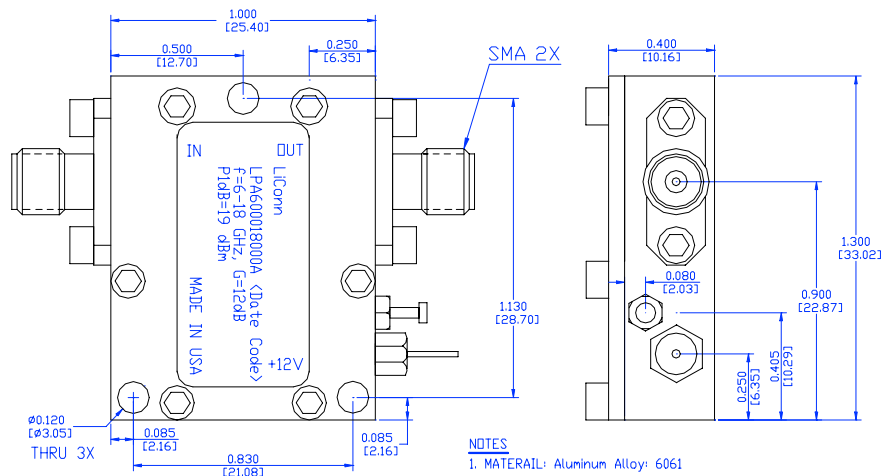
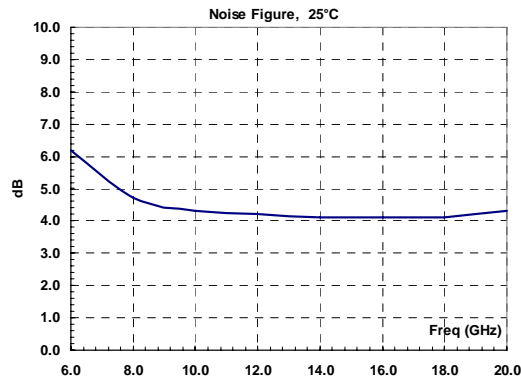
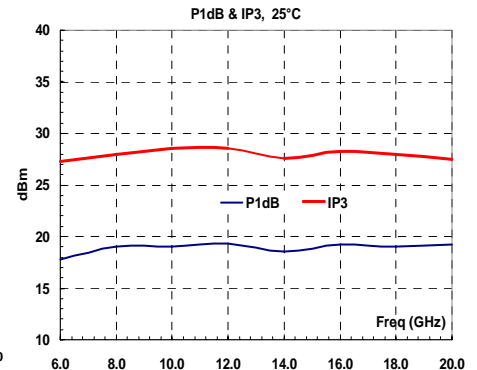
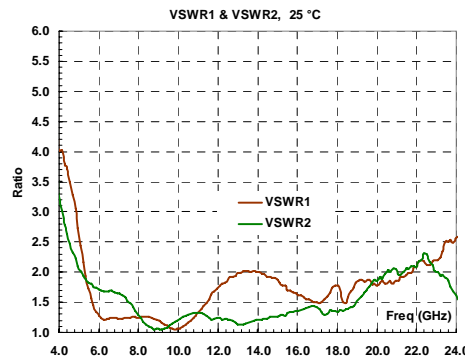
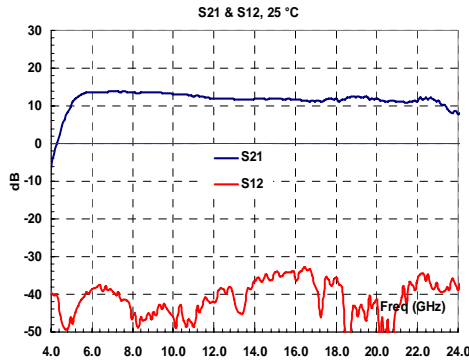
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	10	12	
ΔG	Gain Flatness	dB		±1.0	±1.5
I _d	Device Current	mA		110	
NF	Noise Figure	dB		4.5	
OIP3	Output 3 rd Order Intercept	dBm		28	
P _{1dB}	Output 1dB Gain Compression	dBm	17	19	
SWR ₁	Input VSWR	Ratio		1.5:1	2.2:1
S ₁₂	Reverse Isolation	dB		35	
SWR ₂	Output VSWR	Ratio		1.3:1	2.0:1
V _{dd}	Positive Power Supply Voltage	V	+11.5	+12	+15

ABSOLUTE MAXIMUM RATINGS¹

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

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

ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



NOTES

1. MATERIAL: Aluminum Alloy: 6061
2. FINISH: RoHS complied conducting clear plating.

ORDERING INFORMATION: LPA600018000A

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