



FEATURES:

- 20 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 MHz – 6.0 GHz WIDE BAND 2W AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 25 °C

Symbol	Parameters/Conditions	Unit	Min	Typical	Max
I_d	Quiescent Current	mA		120	
G	Small Signal Gain	dB		18	
NF	Noise Figure	Ohm		3.5	
Psat	Output Saturate Power	dBm	33		
S_{12}	Reverse Isolation	dB	30		
V_{dd}	DC Power Supply Voltage	V	24	28	30
$VSWR_1$	VSWR – Input	Ratio			2.4:1
$VSWR_2$	VSWR – Output	Ratio			2.4:1
Z_0	Impedance	Ohm		50	

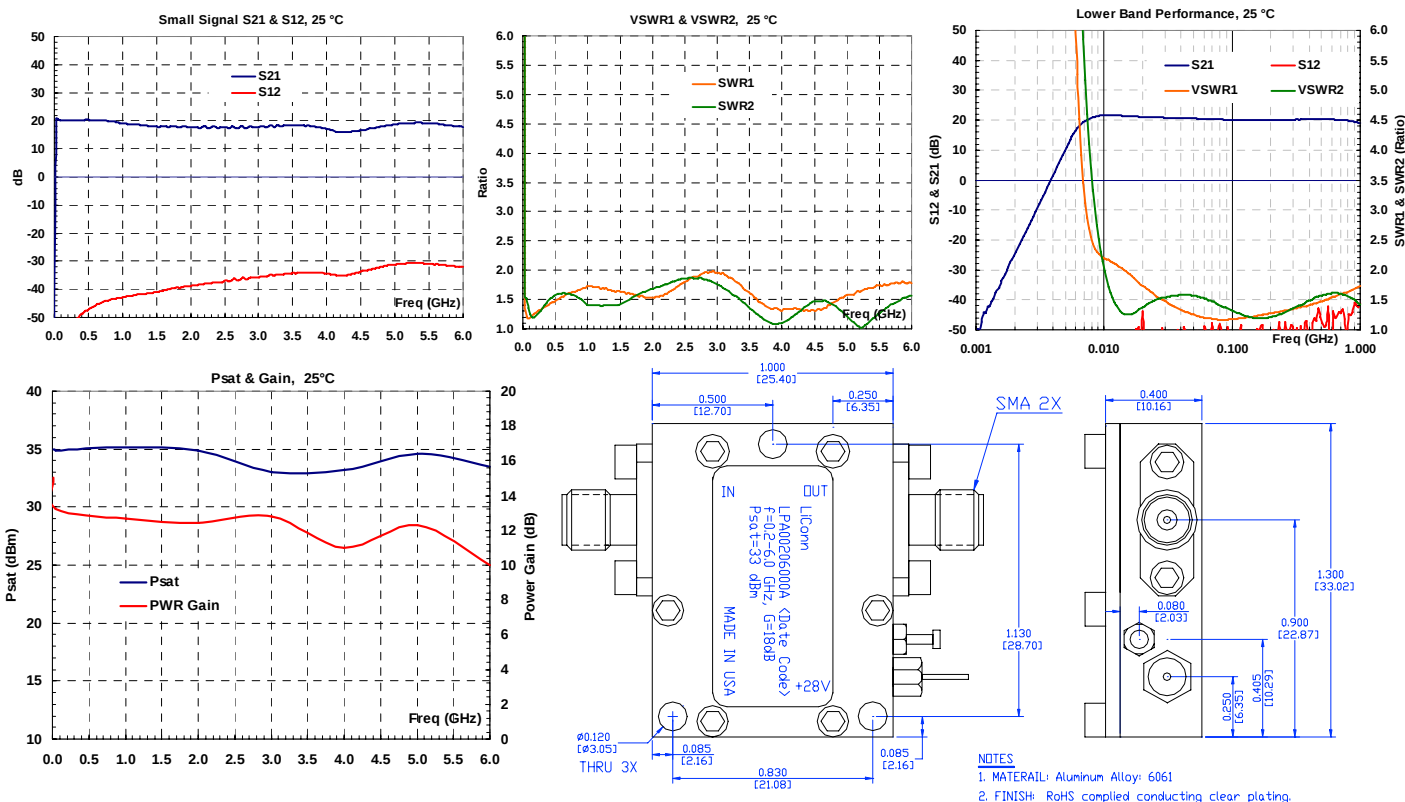
ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+220
Drain Current	mA	600
Operating Temperature	°C	-40 ~ +85
RF Input Power	dBm	+27
DC Supply Voltage	V	32
Storage Temperature	°C	-55 ~ +150
Thermal Resistance	°C/W	4.5
Total Power Dissipation	W	15

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

Additional Heat Sink Required

ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



ORDERING INFORMATION: LPA00206000A