

## FEATURES:

- 1 MHz– 600 MHz;
- 16.0 dB Gain;
- 3.0 dB Noise Figure;
- 30.0 dBm P<sub>1dB</sub>;
- 45.0 dBm IP<sub>3</sub>;
- RoHS Compliance

## APPLICATIONS:

- Base Station;
- Data Communication;
- Tower Top;
- Last-Mile Wireless Communication
- Measurement



# LPA00010600A, 1 MHz – 600 MHz WIDE BAND POWER AMPLIFIER

## ELECTRICAL SPECIFICATIONS @ 25 °C

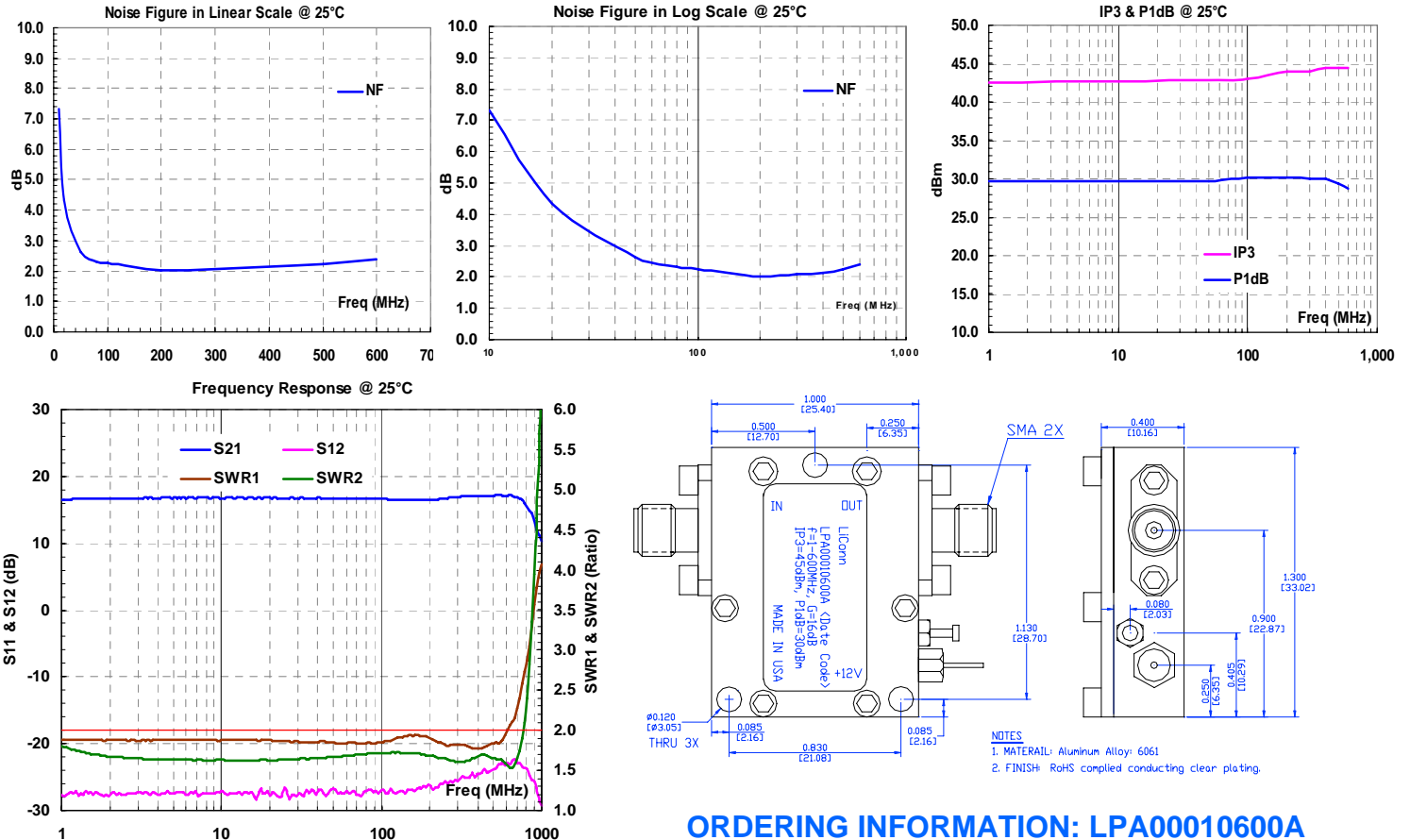
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	15	16	18
ΔG	Gain Flatness	dB		+/- 0.5	
I <sub>d</sub>	Device Current	mA		200	
NF	Noise Figure	dB		3.0	
OIP3	Output 3 <sup>rd</sup> Order Intercept	dBm	42	45	
P <sub>1dB</sub>	Output 1dB Gain Compression	dBm	28	30	
SWR <sub>1</sub>	Input VSWR	Ratio			2.0:1
S <sub>12</sub>	Reverse Isolation	dB		27	
SWR <sub>2</sub>	Output VSWR	Ratio			2.0:1
V <sub>dd</sub>	Positive Power Supply Voltage	V	+11.5	+12	+15

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

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
DC Supply Voltage	V	16
Drain Current	mA	250
RF Input Power	dBm	20
Total Power Dissipation	W	3.0
Thermal Resistance	°C/W	32
Storage Temperature	°C	-65 ~ +85
Operating Temperature	°C	-40 ~ +85

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

## ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



## ORDERING INFORMATION: LPA00010600A