

FEATURES:

- 1 MHz– 1500 MHz;
- 14.0 dB Gain;
- 5.0dB Noise Figure;
- 29.0 dBm P_{1dB};
- 44.0 dBm IP₃;
- RoHS Compliant.

APPLICATIONS:

- Base Station;
- Data Communication;
- Tower Top;
- GPS;
- Measurement.



LPA00011500A, 1 MHz – 1500 MHz WIDE BAND POWER AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 25 °C

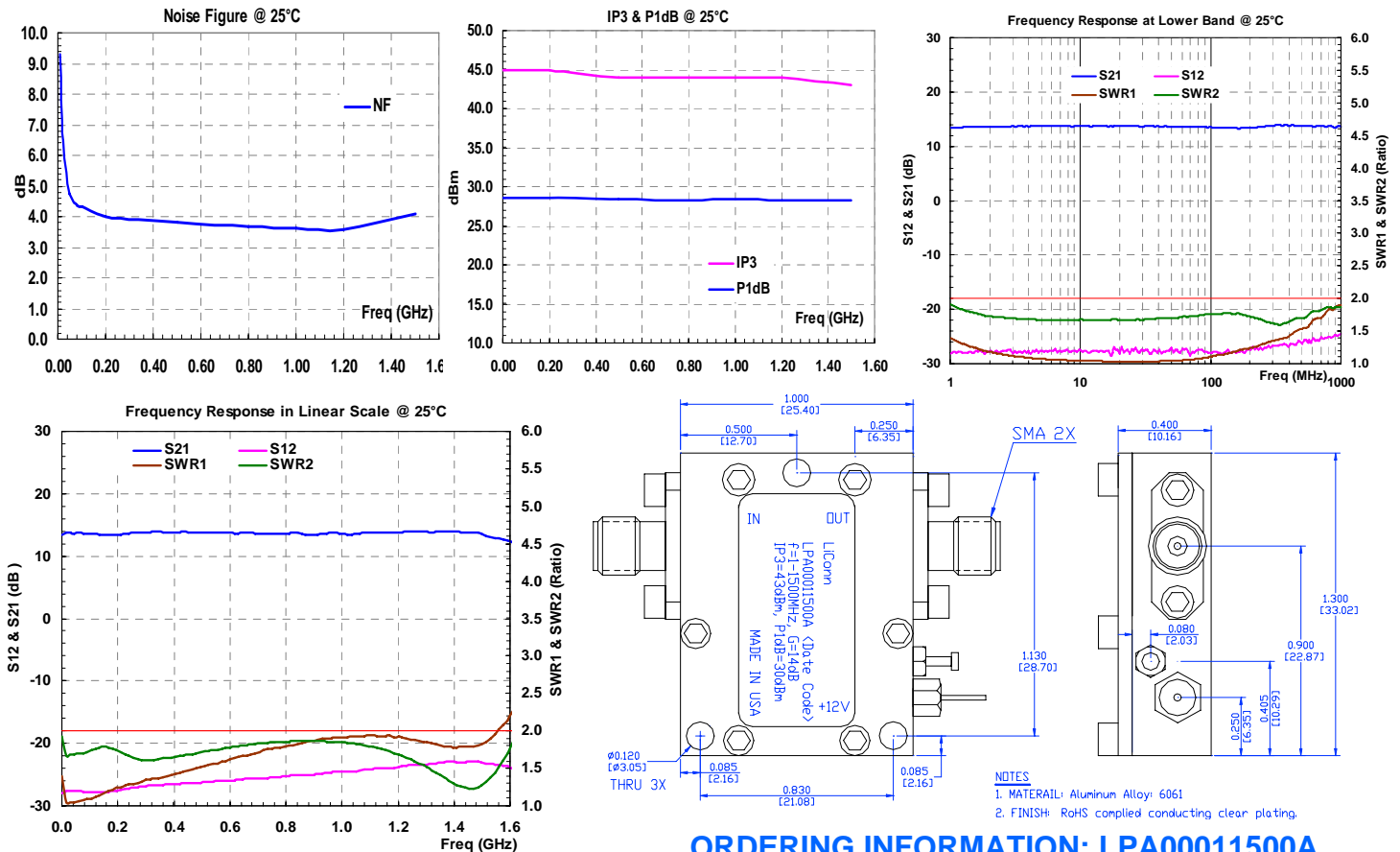
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	13	14	15
ΔG	Gain Flatness	dB		±0.5	
I _d	Device Current	mA		200	
NF	Noise Figure	dB		5	10
OIP3	Output 3 rd Order Intercept	dBm	42	45	
P _{1dB}	Output 1dB Gain Compression	dBm	27.0	29	
SWR ₁	Input VSWR	Ratio			2.2:1
S ₁₂	Reverse Isolation	dB	23	25	
SWR ₂	Output VSWR	Ratio			2.2:1
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	250
RF Input Power	dBm	20
Total Power Dissipation	W	3.0
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



ORDERING INFORMATION: LPA00011500A