

FEATURES:

- 1 MHz ~ 600 MHz;
- 16.0 dB Gain;
- 3.0 dB Noise Figure;
- 30.0 dBm P_{1dB};
- 45.0 dBm IP₃;
- RoHS Compliant.

APPLICATIONS:

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



LPA00010600A, 1 MHz ~ 600 MHz WIDE BAND POWER AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

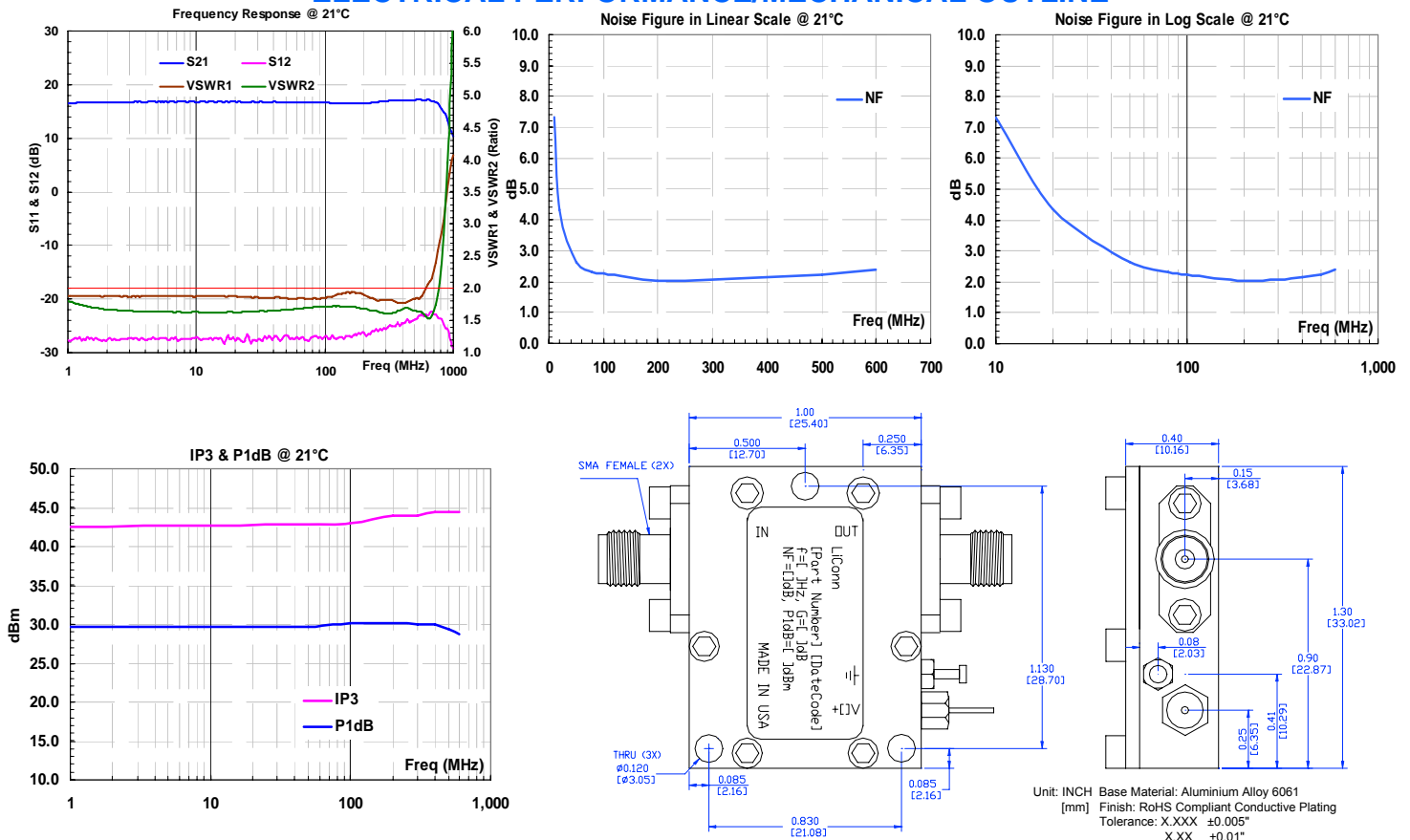
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	15	16	18
ΔG	Gain Flatness	dB		±0.5	
VSWR ₁	Input VSWR	Ratio			2.0:1
VSWR ₂	Output VSWR	Ratio			2.0:1
S ₁₂	Reverse Isolation	dB		27	
NF	Noise Figure	dB		3.0	
OIP ₃	Output 3 rd Order Intercept	dBm	42	45	
P _{1dB}	Output 1dB Gain Compression	dBm	28	30	
I _{dd}	Device Current (V _{dd} =+12V)	mA		200	
V _{dd}	Positive Power Supply Voltage	V	+11.5	+12	+15
Z ₀	Impedance	Ohm		50	

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
CW RF Input Power	dBm	20
DC Supply Voltage	V	16
Drain Current	mA	250
Thermal Resistance	°C/W	32
Total Power Dissipation	W	3.0
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: LPA00010600A