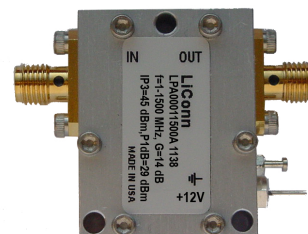


FEATURES:

- 1 MHz ~ 1500 MHz;
- 14.0 dB Gain;
- 5.0 dB Noise Figure;
- 29.0 dBm P_{1dB} ;
- 45.0 dBm IP_3 ;
- RoHS Compliant.

APPLICATIONS:

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



LPA00011500A, 1 MHz ~ 1500 MHz WIDE BAND POWER AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

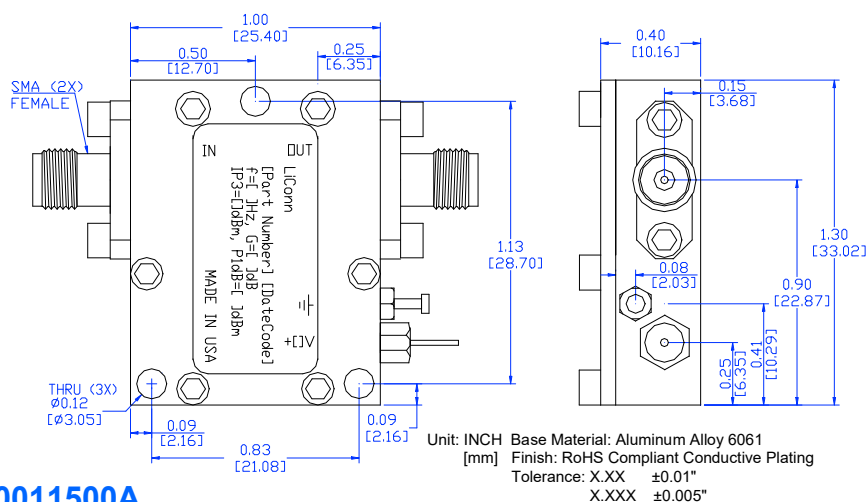
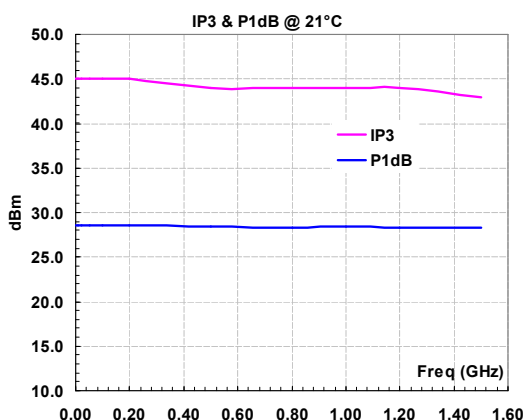
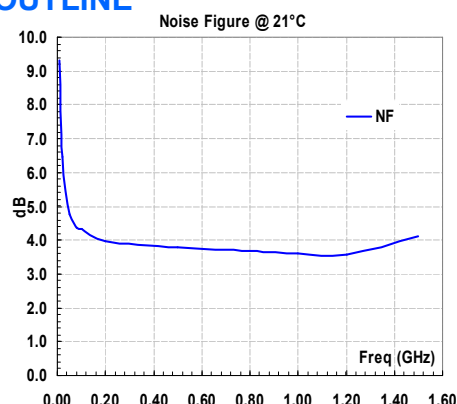
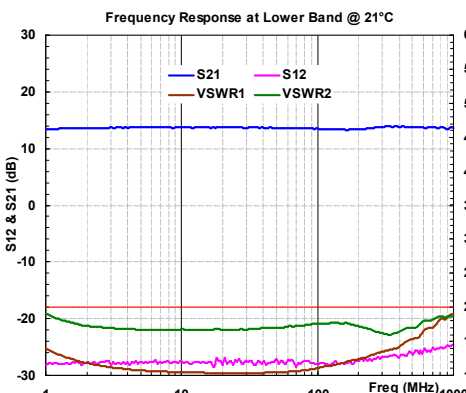
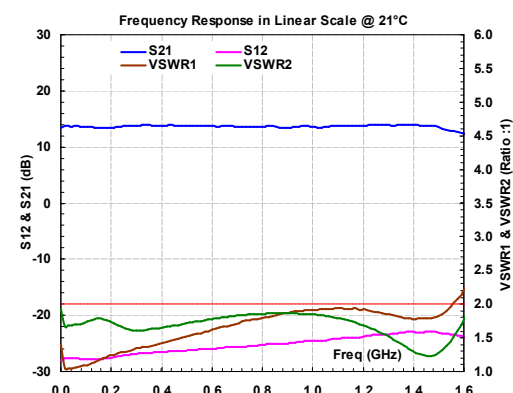
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	13	14	15
ΔG	Gain Flatness	dB		± 0.5	
$VSWR_1$	Input VSWR	Ratio			2.2:1
$VSWR_2$	Output VSWR	Ratio			2.2:1
S_{12}	Reverse Isolation	dB	23	25	
NF	Noise Figure	dB		5	10
OIP ₃	Output 3 rd Order Intercept	dBm	42	45	
P_{1dB}	Output 1dB Gain Compression	dBm	27	29	
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	40
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: LPA00011500A