

FEATURES:

- 20.0 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, 20.0 MHz ~ 6.0 GHz WIDE BAND 2W AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

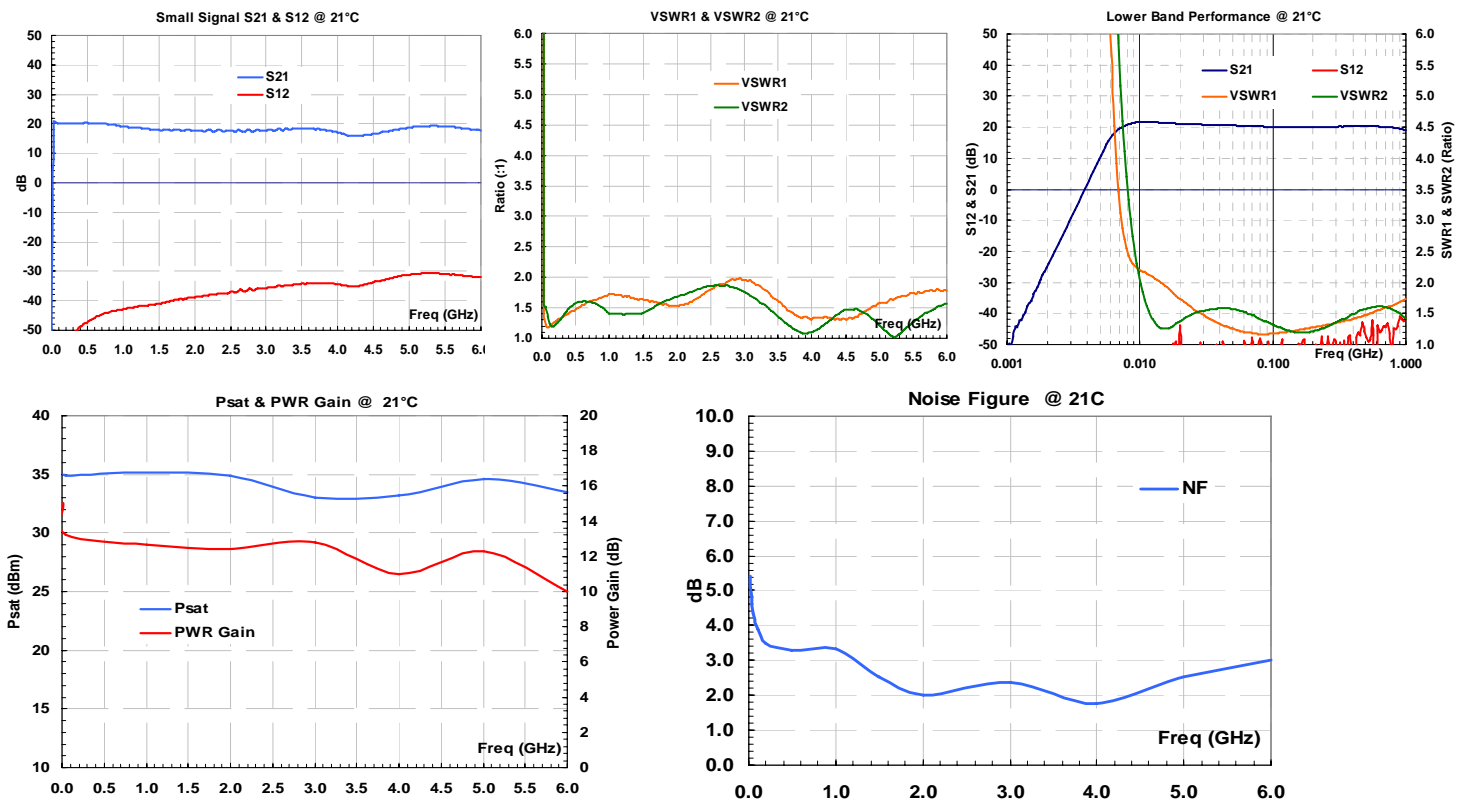
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Small Signal Gain	dB		18	
VSWR ₁	VSWR – Input	Ratio			2.4:1
VSWR ₂	VSWR – Output	Ratio			2.4:1
S ₁₂	Reverse Isolation	dB	30		
NF	Noise Figure	dB		2.5	
P _{sat}	Output Saturate Power	dBm	33		
I _q	Quiescent Current (V _{dd} =+28V)	mA		120	
V _{dd}	DC Power Supply Voltage	V	24	28	30
Z ₀	Impedance	Ohm		50	

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+220
CW RF Input Power	dBm	+27
DC Supply Voltage	V	32
Drain Current	mA	600
Thermal Resistance	°C/W	4.5
Total Power Dissipation	W	15
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

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

ELECTRICAL PERFORMANCE



ORDERING INFORMATION:

LPA00206000A

LPA00206000A-TTL (TTL Enabled: Power On @+5V, Power Off @ 0V)

LPA00206000A-H (Heat Sink Assembled)

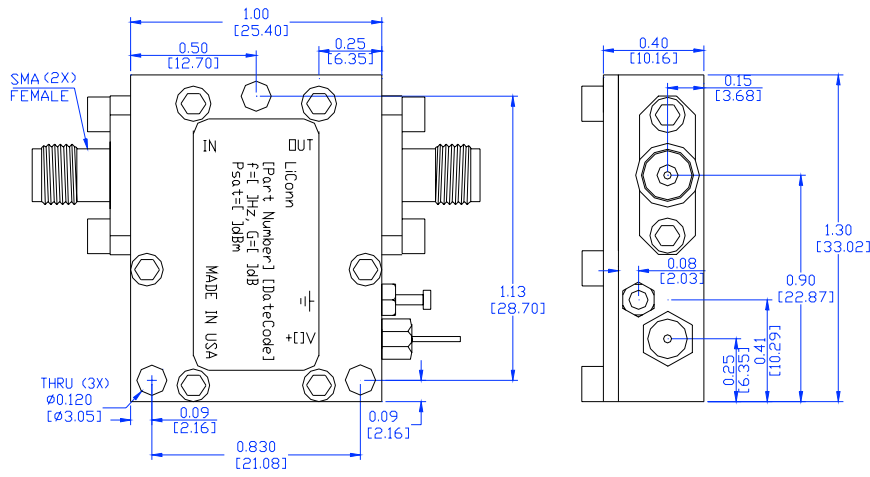
LPA00206000A-TTL-H (TTL Enabled and Heat Sink Assembled)

Additional Heat Sink Required

LPA00206000A, 20.0 MHz ~ 6.0 GHz WIDE BAND 2W AMPLIFIER

MECHANICAL OUTLINE:

LPA00206000A



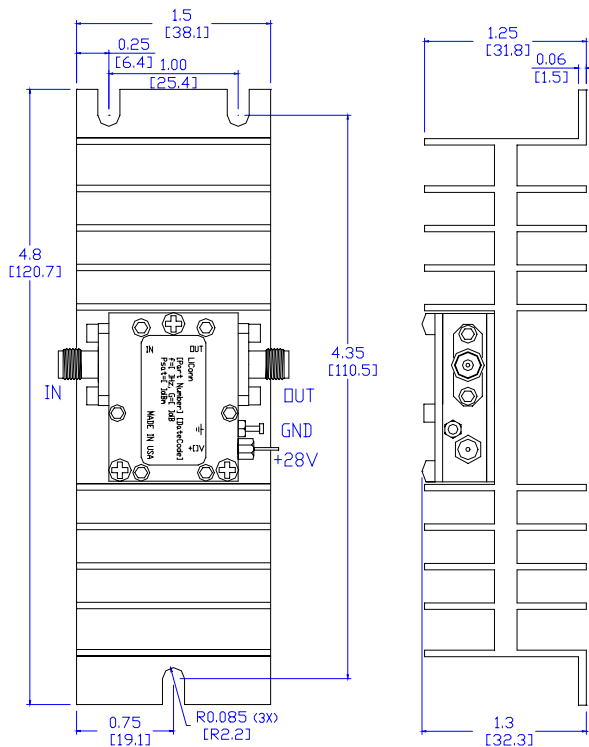
Unit: Inch
[mm]

Tolerance:
X.X: ± 0.025"
X.XX: ± 0.015"
X.XXX: ± 0.01"

Housing:
Base Material: Aluminum Alloy 6061
Finish: RoHS Compliant Conductive Plating

Heat Sink:
Base Material: Aluminum
Finish: Black Anodized

LPA00206000A-H



LPA00206000A-TTL-H

