FEATURES:

- **20.0 MHz– 6.0 GHz;**
- **34 dB Gain;**
- **2 W Output Power;**
- **Single DC Power;**
- **RoHS Compliant;**
- **Designed to meet MIL-STD-202g;**
- **Made In USA.**

APPLICATIONS:

- **Ultra Broadband Amplifier;**
- **Fiber Optic Driver;**
- **Test Instrument;**
- **EMC Amplifier Driver;**
- **LTE Measurement.**

LPA00206000M, 20.0 MHz ~ 6.0 GHz WIDE BAND 3W AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Small Signal Gain	dB	31	35	
△G	Gain Variation	dB		±1.5	
$VSWR_1$	VSWR – Input	Ratio		1.5:1	2:1
$VSWR_2$	VSWR – Output	Ratio		1.5:1	2:1
S_{12}	Reverse Isolation	dB	40		
NF	Noise Figure	dB		3.0	4.5
P_{sat}	Output Saturate Power	W		3	
OIP_3	Output 3rd order Interception Point (2 tone, Pout +27 dBm each, 1MHz Separation)	dBm		45	
I_{dd}	Quiescent Current (V_{dd}=+28V)	mA		250	650
V_{dd}	DC Power Supply Voltage	V	26	28	30
Eff	Efficiency @ 2W P_{out}	%		20	
Z_0	Impedance	Ohm		50	

ABSOLUTE MAXIMUM RATINGS[1]

Parameters/Conditions	Unit	Maximum
CW RF Input Power	dBm	+15
DC Supply Voltage	V	-0.5, 30
Drain Current	mA	700
Thermal Resistance	°C/W	4.5
Junction Temperature	°C	180
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

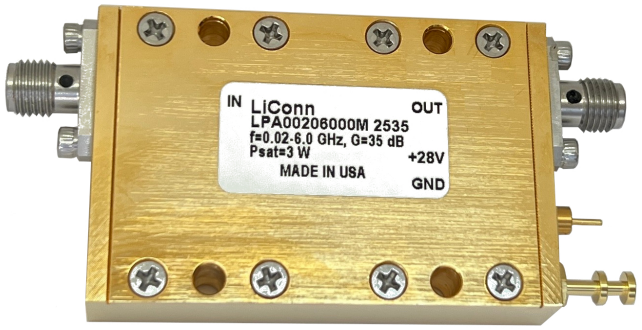
[1] Operation beyond these limits may cause permanent damage.

ORDERING INFORMATION:

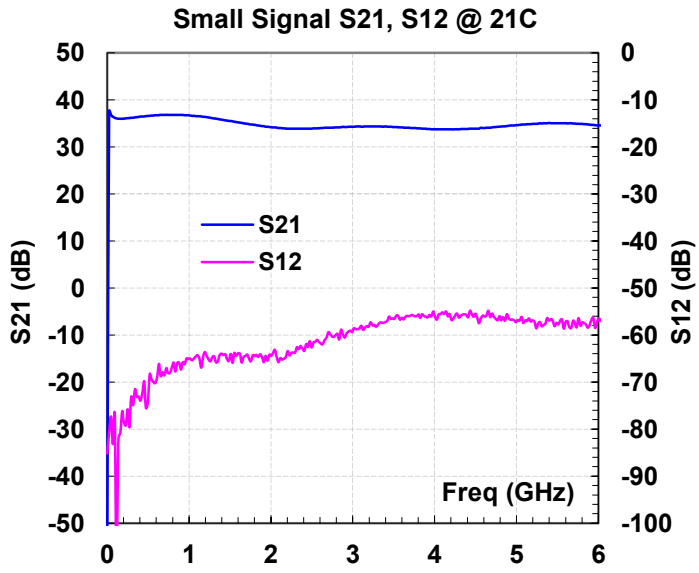
LPA00206000M

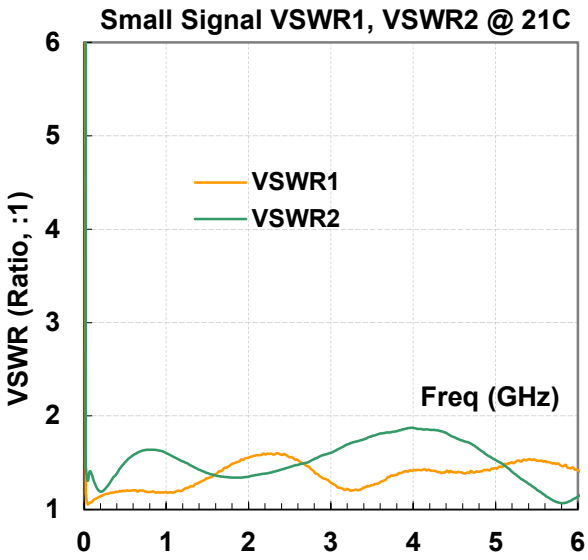
LPA00206000M-H (with Heat Sink assembled)

Additional Heat Sink Required



ELECTRICAL PERFORMANCE



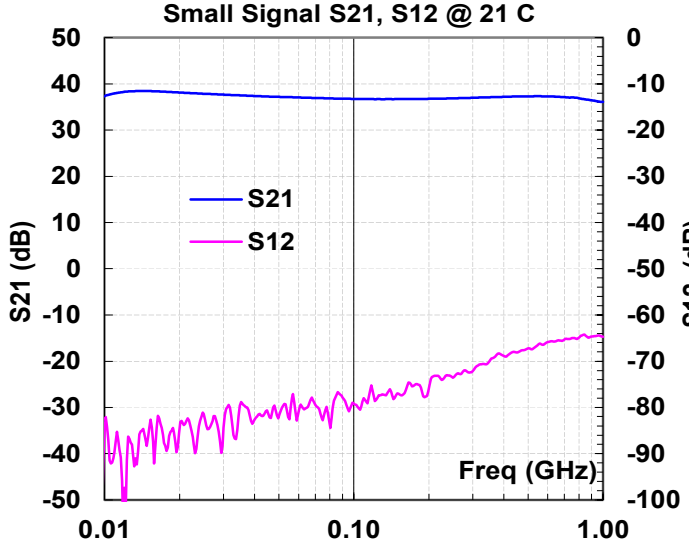


sales@liconn.com
http://www.liconn.com

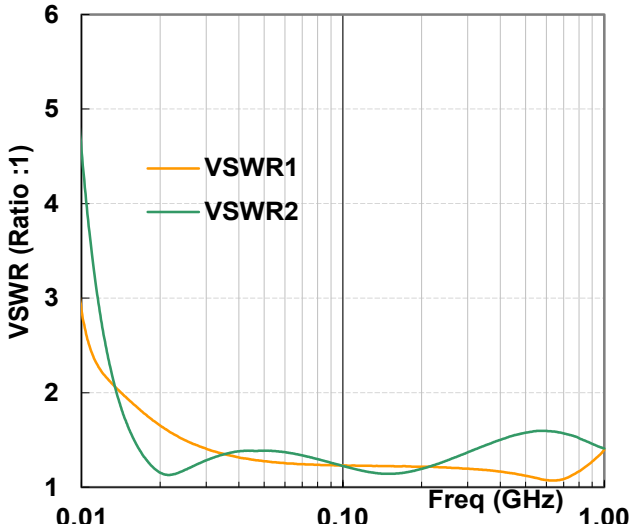
LPA00206000M, 20.0 MHz ~ 6.0 GHz WIDE BAND 3W AMPLIFIER

ELECTRICAL PERFORMANCE

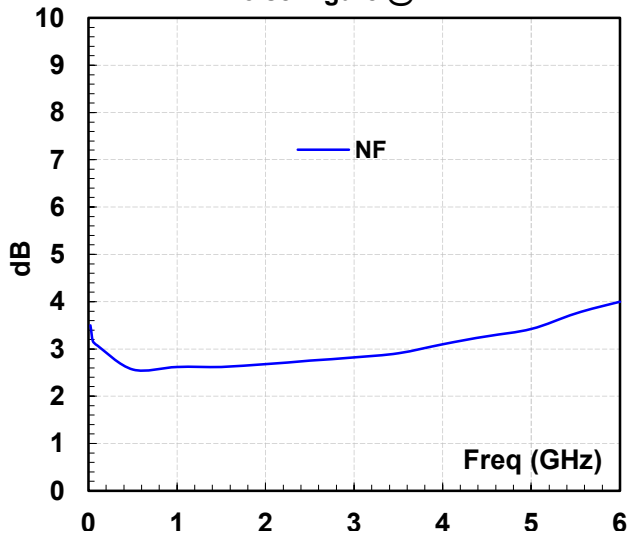
Small Signal S21, S12 @ 21 C



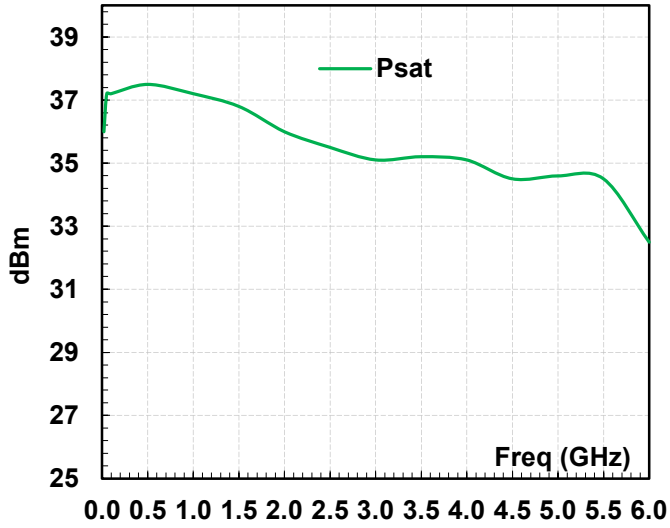
Small Signal VSWR1, VSWR2 @ 21C



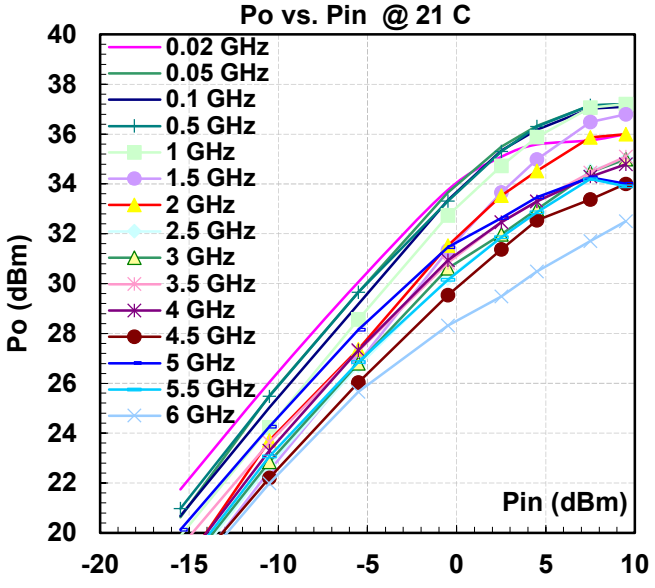
Noise Figure @ 21C



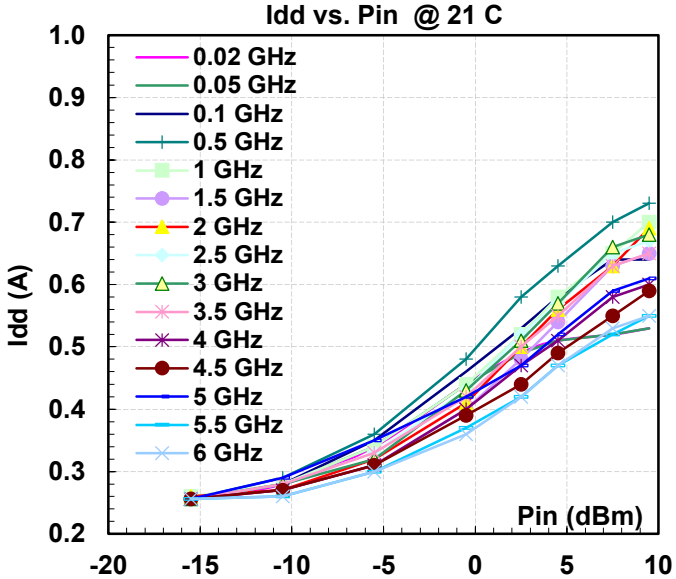
Psat @ 21C



Po vs. Pin @ 21 C

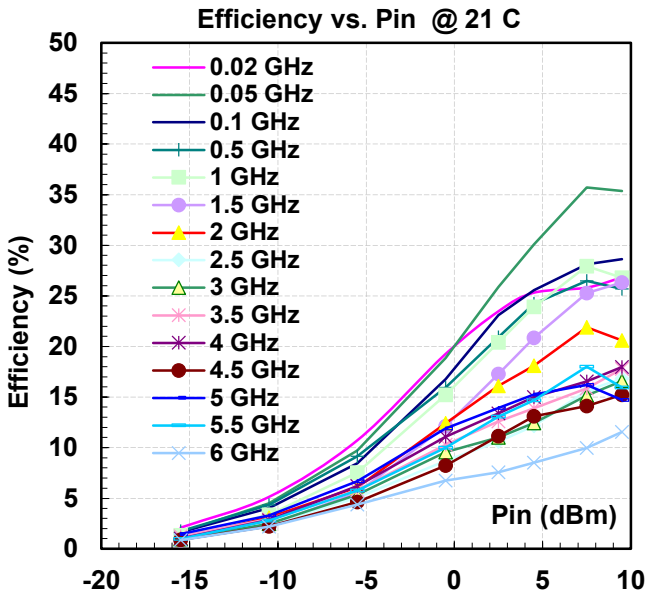


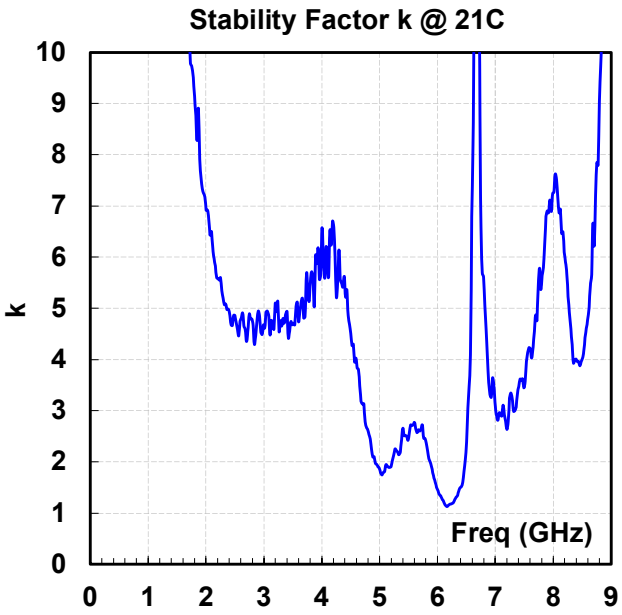
Idd vs. Pin @ 21 C



LPA00206000M, 20.0 MHz ~ 6.0 GHz WIDE BAND 3W AMPLIFIER

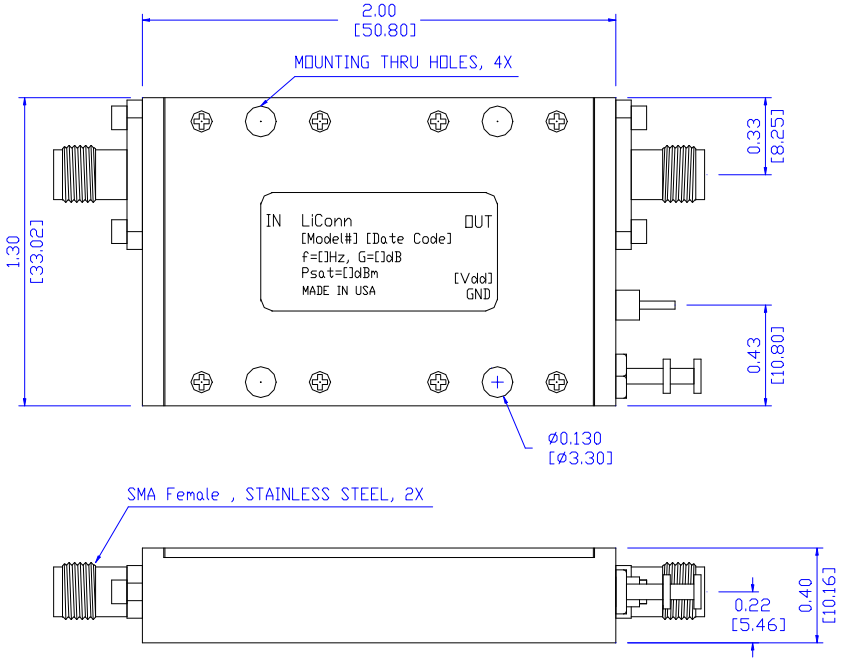
ELECTRICAL PERFORMANCE:





MECHANICAL OUTLINE:

LPA00206000M



Unit: Inch
[mm]

Tolerance:
X.XX: ± 0.01”
X.XXX: ± 0.005”

Housing:
Base Material: Brass
Finish: Gold Plating

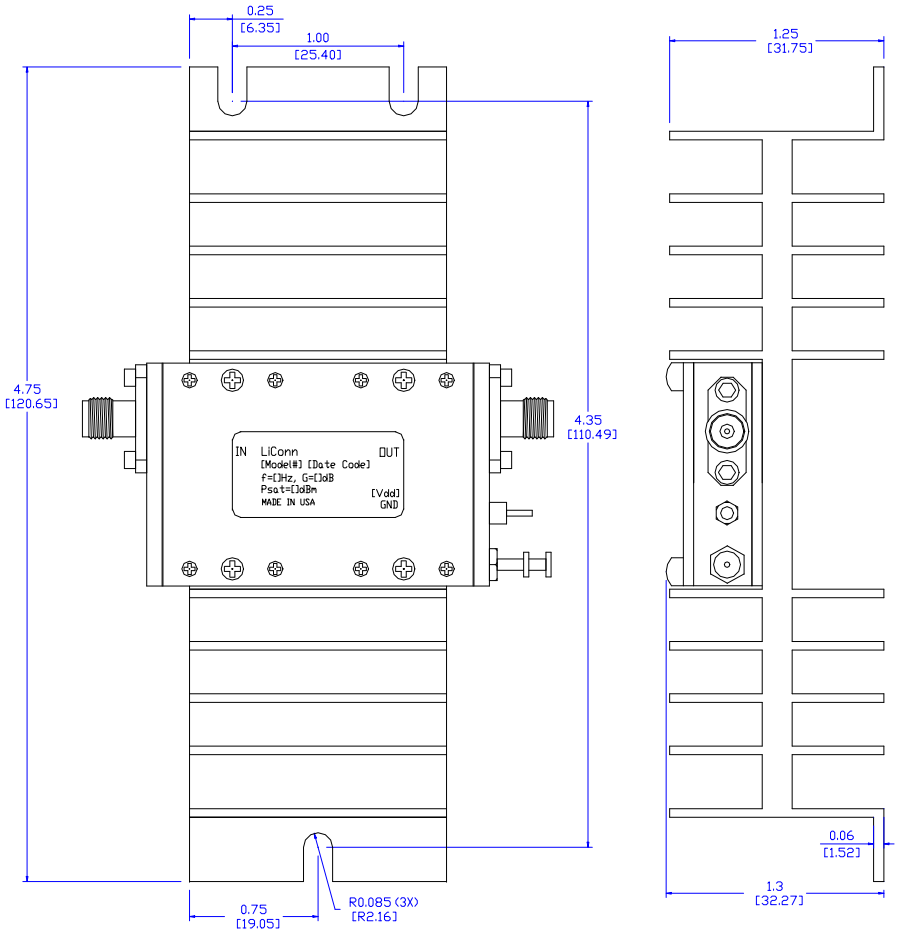
Tel: 1-651-482-1848
Fax: 1-651-482-1573

sales@liconn.com
http://www.liconn.com

LPA00206000M, 20.0 MHz ~ 6.0 GHz WIDE BAND 2W AMPLIFIER

MECHANICAL OUTLINE:

LPA00206000M-H



Unit: Inch
[mm]

Tolerance: X.XX: ± 0.01”
X.XXX: ± 0.005”

Housing:
Base Material: Brass
Finish: Gold Plating

Heat Sink:
Base Material: Aluminum
Finish: Black Anodized

sales@liconn.com
http://www.liconn.com