FEATURES:

- **6.0 GHz ~ 18.0 GHz;**
- **12.0 dB Gain;**
- **4.5 dB Noise Figure;**
- **19.0 dBm P_{1dB};**
- **28.0 dBm IP_3;**
- **RoHS Compliant.**

APPLICATIONS:

- **Wideband;**
- **Data Communication;**
- **Measurement.**

LPA600018000A, 6.0 GHz ~ 18.0 GHz MEDIUM POWER AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

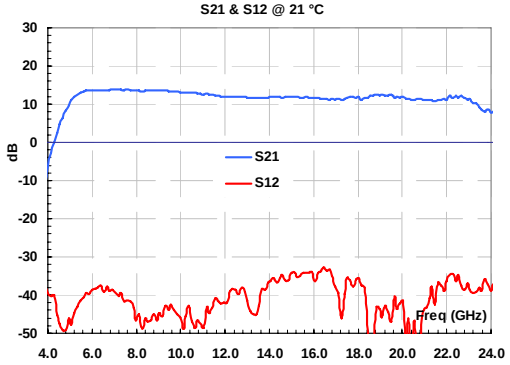
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Gain	dB	10	12	
ΔG	Gain Flatness	dB		±1.0	±1.5
$VSWR_1$	Input VSWR	Ratio		1.5:1	2.2:1
$VSWR_2$	Output VSWR	Ratio		1.3:1	2.0:1
S_{12}	Reverse Isolation	dB		35	
NF	Noise Figure	dB		4.5	
OIP_3	Output 3rd Order Intercept	dBm		28	
P_{1dB}	Output 1dB Gain Compression	dBm	17	19	
I_{dd}	Device Current (V_{dd}=+12V)	mA		110	
V_{dd}	Positive Power Supply Voltage	V	+11.5	+12	+15
Z_0	Impedance	Ohm		50	

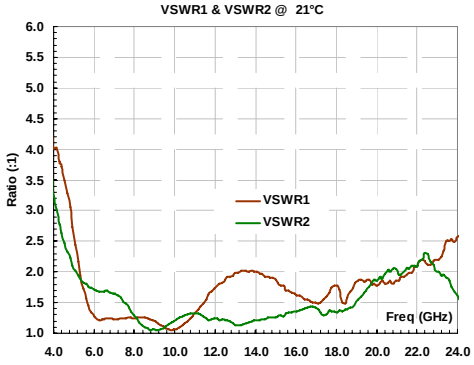
ABSOLUTE MAXIMUM RATINGS[1]

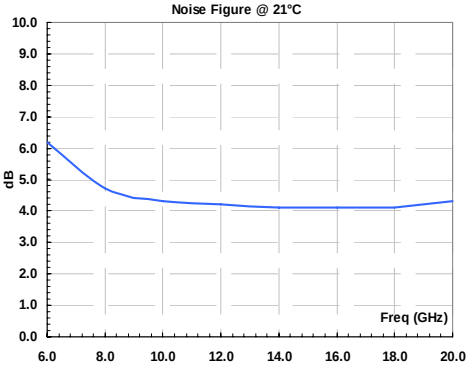
Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
CW RF Input Power	dBm	23
DC Supply Voltage	V	16
Drain Current	mA	150
Thermal Resistance	°C/W	40
Total Power Dissipation	W	2.0
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

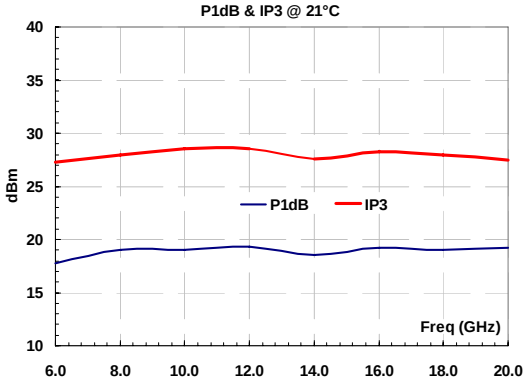
[1] Operation beyond these limits may cause permanent damage.

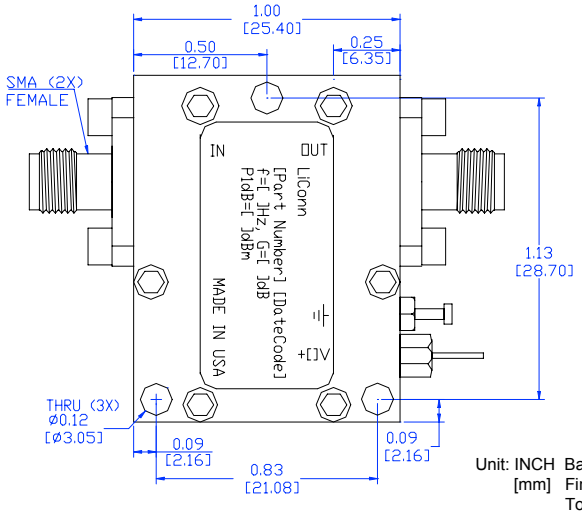
ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE

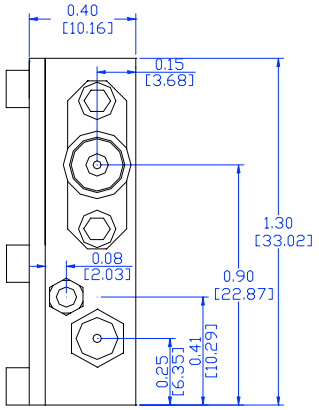












Unit: INCH Base Material: Aluminum Alloy 6061
[mm] Finish: RoHS Compliant Conductive Plating
Tolerance: X.XX ±0.01"
X.XXX ±0.005"

ORDERING INFORMATION: LPA600018000A

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

Rev 1.3

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