

FEATURES:

- 2.0 GHz ~ 6.0 GHz;
- 45.0 dB Gain;
- 3.5 dB Noise Figure;
- 40.0 dBm P_{1dB};
- VSWR: 2:1 Max;
- >34 Years MTBF;
- Unconditional Stable;
- RoHS Compliant.

APPLICATIONS:

- Communication
- Test Instrument

ORDERING INFORMATION:

- LPA2060A

LPA2060A, 2.0 GHz ~ 6.0 GHz 10 Watt POWER AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 21 °C

Symbol	Parameters/Conditions	Unit	Min	Typical	Max
G	Small Signal Gain	dB		45	
G _p	Power Gain	dB		40	
NF	Noise Figure	dB		3.5	
P _{1dB}	Output 1dB Gain Compression	dBm	37	40	
SWR ₁	Input VSWR	Ratio			2:1
SWR ₂	Output VSWR	Ratio			2:1
I _{dd}	Device Current	mA		1150	
V _{dd}	Positive Power Supply Voltage	V	+15		+20
Z ₀	Impedance	Ω		50	

ABSOLUTE MAXIMUM RATINGS¹

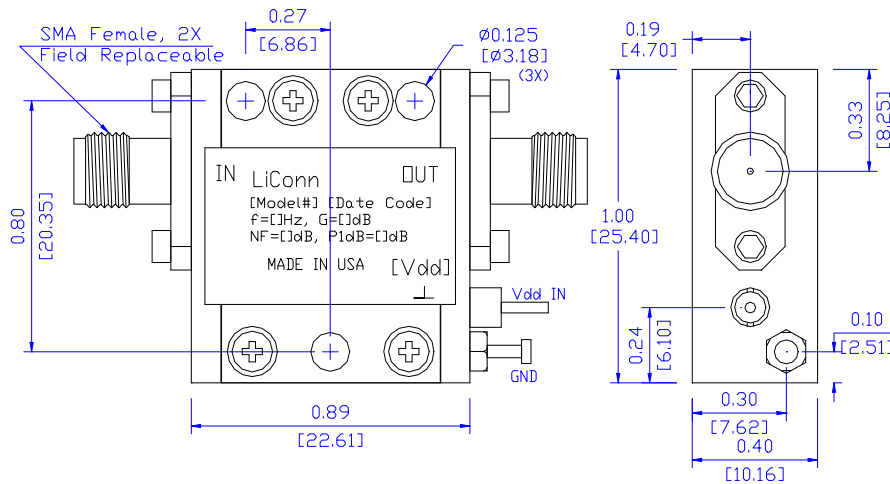
Parameters/Conditions	Unit	Maximum
DC Supply Voltage	V	12 < V _{dd} < +20
Drain Current	A	2.865
RF Input Power	dBm	30
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

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

Additional Heat Sink Required

MECHANICAL OUTLINE

Preliminary



Unit: INCH Base Material: Brass
 [mm] Finish: Gold Plating
 Tolerance: X.XX ±0.01"
 X.XXX ±0.005"