

## 50Ω Wide Band, Ultra Low Noise (0.3dB) LNA

Case PN: 6UDD2W6H41SMAA2

## Features:

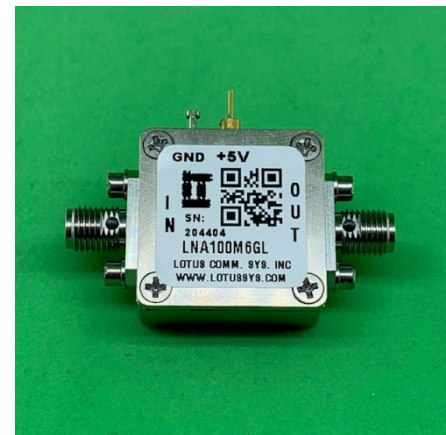
- \* Frequency Range: 100 MHz to 6 GHz;
- \* Noise Figure: typical 0.3 dB @ 1.9 GHz
- \* Gain: 19.5 dB small signal Gain at 1.9 GHz
- \* Output P1dB: +22 dBm CW
- \* +39 dBm OIP3 at 65mA current
- \* +3.3 to +5V Supply (+5V recommended)
- \* Stainless Steel SMA Female Connector
- \* High Quality Rogers RO4350 RF PCB  
(very low loss and high thermal performance)
- \* ROHS Compliant

## General Description:

LNA100M6GL is a ultra-low noise, high-linearity amplifier in a small 15/16"x15/16"x0.49" shielded RF enclosure. At 1.9GHz, the LNA provides 19.5 dB gain, +39 dBm OIP3 at a 65mA bias setting, and 0.3 dB noise figure. The LNA can be biased from a single supply +3.3V to +5V.

## Applications:

- \* 4.5G, 5G Massive MIMO
- \* Repeaters/DAS
- \* Mobile Infrastructure
- \* LTE/WCDMA/CDMA/GSM
- \* General Purpose Wireless
- \* SDR & Ham Radio
- \* Test Instrumentation



## Electrical Specifications:

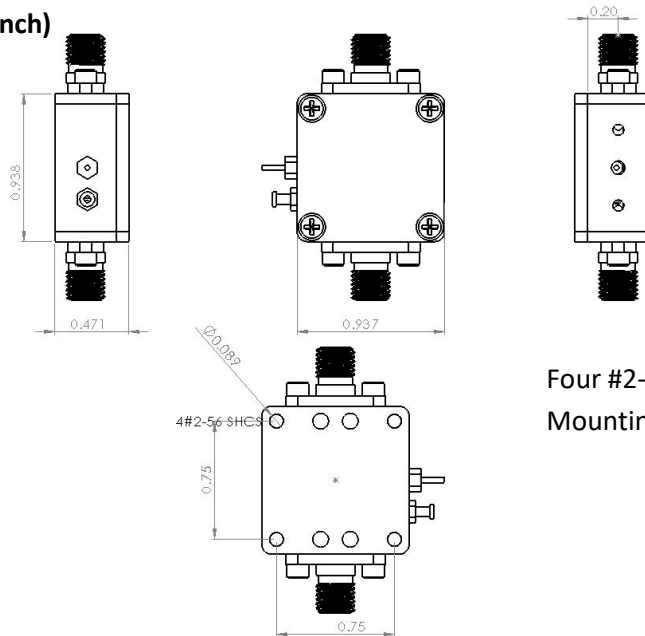
Item	Parameter	Condition	Electrical Specification			
			MIN	TYP	MAX	UNITS
1	Operational Frequency Range		100		6000	MHz
2	Test Frequency			1900		MHz
3	Gain		17.5	19.5		dB
4	Input Return Loss			12.2		dB
5	Output Return Loss			13.5		dB
6	Noise Figure			0.3	0.5	dB
7	Output P1dB		+21	+22.7		dBm
8	Output IP3	Pout=+2 dBm/tone, Δf=1MHz	+35	+39.3		dBm
9	Operating Current (Quiescent)			65		mA

## Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	Max Device Voltage	+7	V
2	Max Input Power, CW, 50Ω, T=25°C	+22	dBm
3	Operating Temperature	-40 to +85	°C
4	Max Storage Temperature	-65 to +150	°C



Outline Drawing (inch)



Four #2-56 Holes on the Bottom for Mounting

S-Parameters

