

## 50Ω Wide Band, Ultra Low Noise, Flat Gain LNA

Case PN: 6UDD2W6S1A2

## Features:

- \* Frequency Range: 0.6 - 4.2 GHz;
- \* Noise Figure: 0.67dB @ 2.6 GHz
- \* Gain: >19 dB gain across 1.5 to 4 GHz
- \* Output P1dB: +21.7 dBm
- \* Output IP3: +41.5 dBm
- \* DC Voltage: +3.3V to +5V
- \* Operating Current: 120mA
- \* Stainless Steel SMA Female Connector
- \* High Quality Isola-Tera RF PCB  
(very low loss and high thermal performance)
- \* ROHS Compliant

## Applications:

- \* Repeaters/DAS
- \* Mobile Infrastructure
- \* LTE/WCDMA/CDMA/GSM
- \* General Purpose Wireless
- \* SDR & Ham Radio
- \* Test Instrumentation

## General Description:

LNA6004P2GH is a flat-gain, high-linearity, ultra low noise amplifier in a small 15/16"x15/16"x0.59" shielded RF enclosure (PN: 6UDD2W6S1A2). The LNA provides 2dB flat gain (peak-to-peak) over a wide bandwidth from 1.5 to 4 GHz. At 2.6 GHz, the LNA typically provides 20 dB gain, high +41.5 dBm output IP3 at a 120 mA bias setting, and 0.6 dB noise figure. The LNA can be biased from +3.3V to +5V.



## Electrical Specifications:

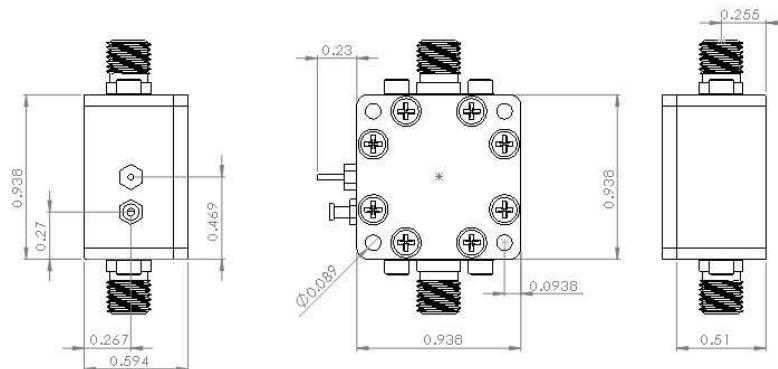
Item	Parameter	Condition	Electrical Specification			
			MIN	TYP	MAX	UNITS
1	Operational Frequency Range		600		4200	MHz
2	Gain		18	19	21	dB
3	Gain Flatness	1500-4000MHz		2.0		dB
4	Input Return Loss			14		dB
5	Output Return Loss			14		dB
6	Noise Figure			0.67		dB
7	Output P1dB			+21.7		dBm
8	Output IP3	Pout=+5 dBm/tone, Δf=1MHz		+41.5		dBm
9	Operating Current (Quiescent)			120		mA

## Absolute Maximum Ratings

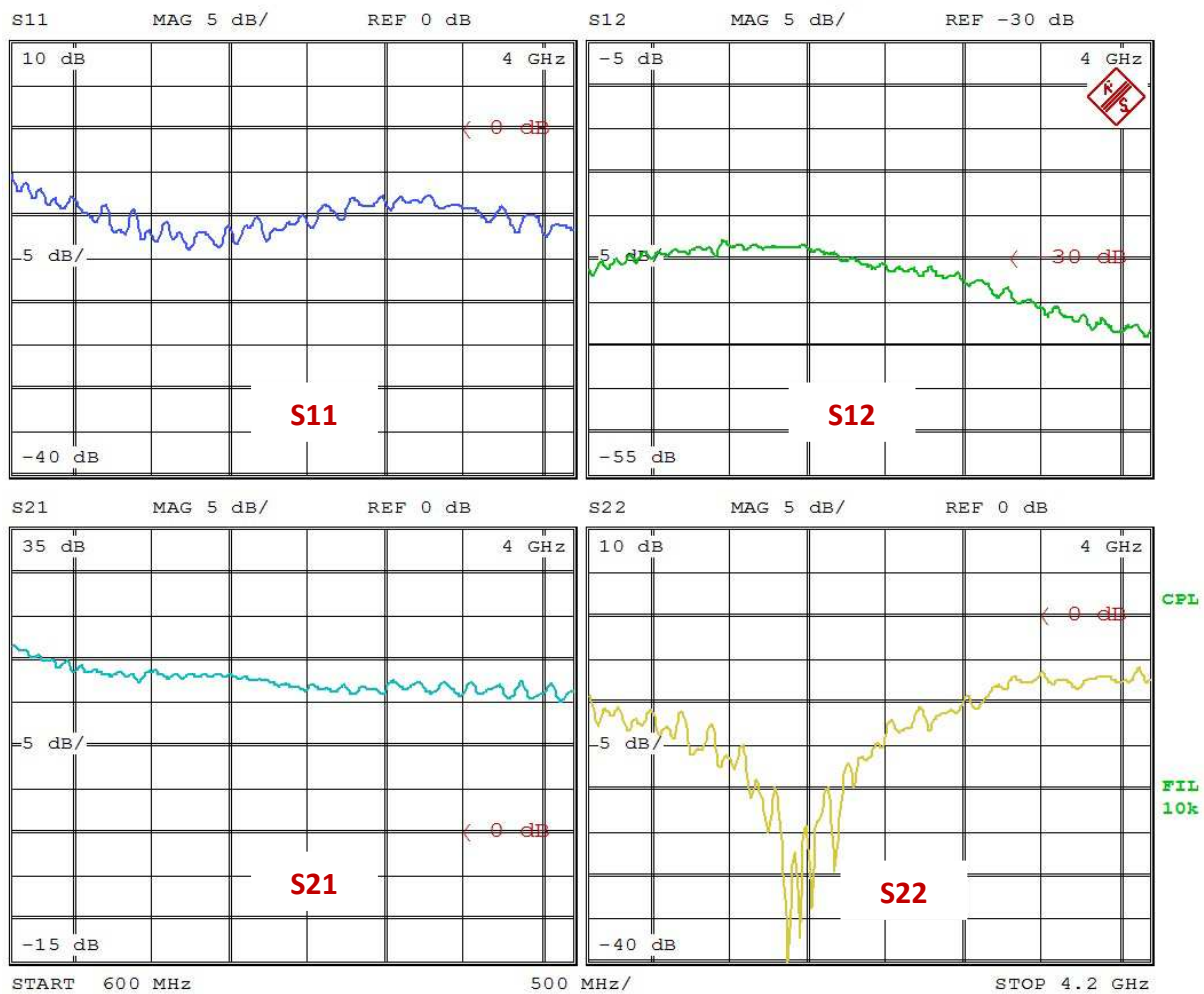
Item	Parameter	Rating	UNITS
1	Max Device Voltage	+7	V
2	Max Input Power, CW, 50Ω, T=25°C	+33	dBm
3	Operating Temperature	-40 to +85	°C
4	Max Storage Temperature	-65 to +150	°C



Outline Drawing (inch)



S-Parameters



<https://cdn.shopify.com/s/files/1/1592/7469/files/LNA600M4P2GH.pdf>

