

## 50Ω (match on input &amp; output) Broadband 21 – 29 GHz

Case PN: 6UDD2W605A2

## Features:

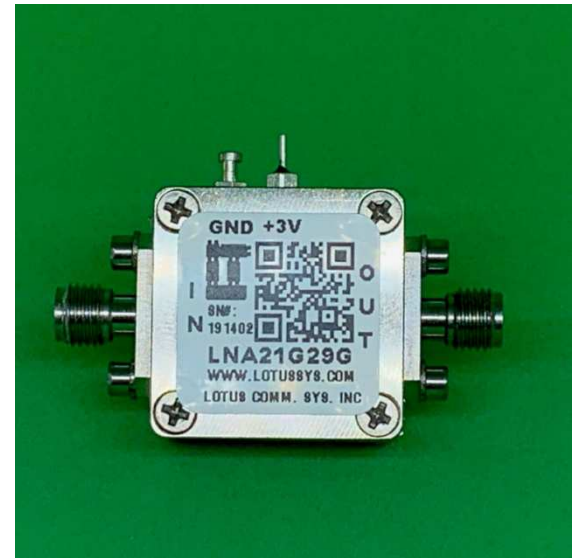
- \* Frequency Range: 21 - 29 GHz;
- \* Noise Figure: typ. 2.5dB
- \* Gain: 13 dB
- \* Output P1dB: 9 dBm
- \* Output IP3: 19 dBm
- \* DC Voltage: +3V
- \* Operating Current: 35mA
- \* Stainless Steel 2.92mm Female Connector
- \* High Quality Rogers RO4350 RF PCB  
(very low loss and high thermal performance)
- \* ROHS Compliant

## General Description:

LNA21G29G is a broadband, GaAs MMIC low noise amplifier with 13 dB typical gain from 21 to 29 GHz in a small 15/16"x15/16"x0.47" shielded RF enclosure (PN: 6UDD2W605A2). Its output 1dB compression point is +9dBm and third order linearity (OIP3) is typically 19 dBm.

## Applications:

- \* Test Instrumentation
- \* Wideband A/D System
- \* General Purpose Wireless
- \* Radar & VSAT
- \* SDR & Ham Radio



## Electrical Specifications:

Item	Parameter	Conditions	Min	Typ.	Max	Units
1	Operational Frequency Range		21		29	GHz
2	Gain		10.5	13		dB
3	Input Return Loss			11		dB
4	Output Return Loss			12		dB
5	Noise Figure			2.5	3.5	dB
6	Output P1dB		8	9		dBm
7	Output IP3			19		dBm
8	Current, I <sub>DD</sub>			35	35	mA

Test Conditions: V<sub>DD</sub>=+3V, I<sub>dd</sub> = 35 mA (typ.) Temp = +25 °C, 50Ω system.

## Absolute Maximum Ratings

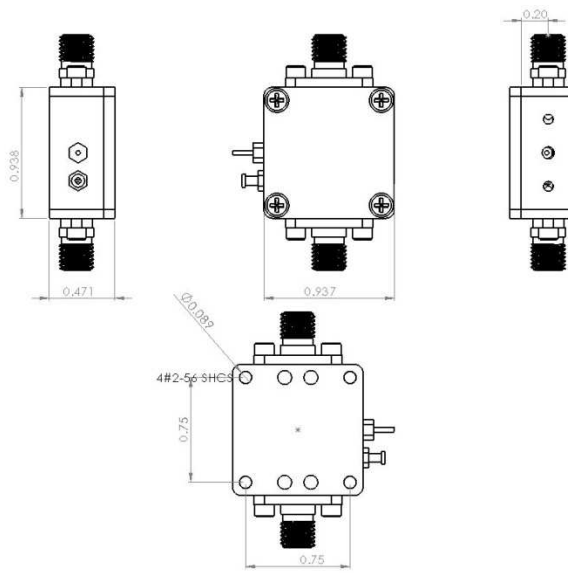
Item	Parameter	Rating	UNITS
1	Max Device Voltage	+4	V
2	Max RF input Power	0	dBm
3	Operating Temperature	-40 to +85	°C
4	Max Storage Temperature	-65 to +150	°C



**Coaxial  
Broadband Low Noise Amplifier (LNA)**

**LNA21G29G**

**Outline Drawing (inch)**



**S-Parameters**

