

**50Ω Wide Band, Low Noise, Flat Gain LNA**

Case PN: 6UDD2W6S1A2

**Features:**

- \* Frequency Range: 600 MHz to 6 GHz;
- \* Noise Figure: typical 0.95 dB @ 5.5 GHz
- \* Gain: 21 dB Gain at 5.5 GHz
- \* Output P1dB: +19 dBm CW
- \* +35.5 dBm OIP3 at 65mA current
- \* +3.3 to +5V Supply (+5V recommended)
- \* Stainless Steel SMA Female Connector
- \* High Quality Isola-Tera RF PCB  
(very low loss and high thermal performance)
- \* ROHS Compliant

**General Description:**

LNA600M6GFG 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 a 2dB flat gain (peak-to-peak) from 3 to 6 GHz. At 5.5 GHz, the amplifier typically provides 21 dB gain, +35.5 dBm OIP3 at a 56 mA bias setting, and 0.95 dB noise figure. The LNA can be biased from a single supply +3.3V to +5V.

**Electrical Specifications:**

Item	Parameter	Condition	Electrical Specification			
			MIN	TYP	MAX	UNITS
1	Operational Frequency Range		600		6000	MHz
2	Test Frequency			5500		MHz
3	Gain		18	21	22	dB
4	Input Return Loss			10		dB
5	Output Return Loss			9		dB
6	Noise Figure			0.95	1.3	dB
7	Output P1dB			+19		dBm
8	Output IP3	Pout=+5 dBm/tone, Δf=1MHz	+30	+35.5		dBm
9	Operating Current (Quiescent)			56		mA

**Absolute Maximum Ratings**

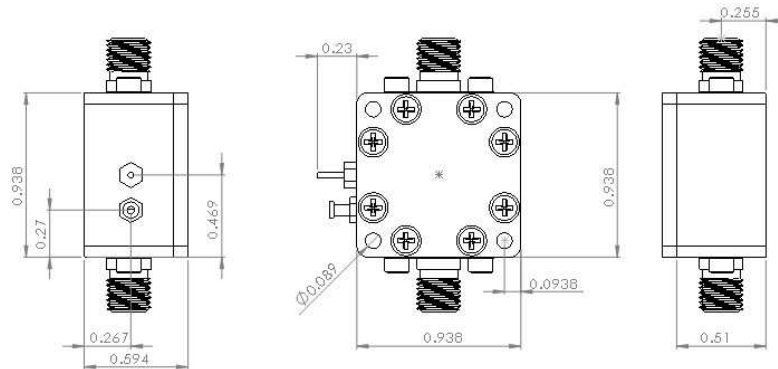
Item	Parameter	Rating	UNITS
1	Max Device Voltage	+7	V
2	Max Input Power, CW, 50Ω, T=25°C	+30	dBm
3	Operating Temperature	-40 to +85	°C
4	Max Storage Temperature	-65 to +150	°C

**Applications:**

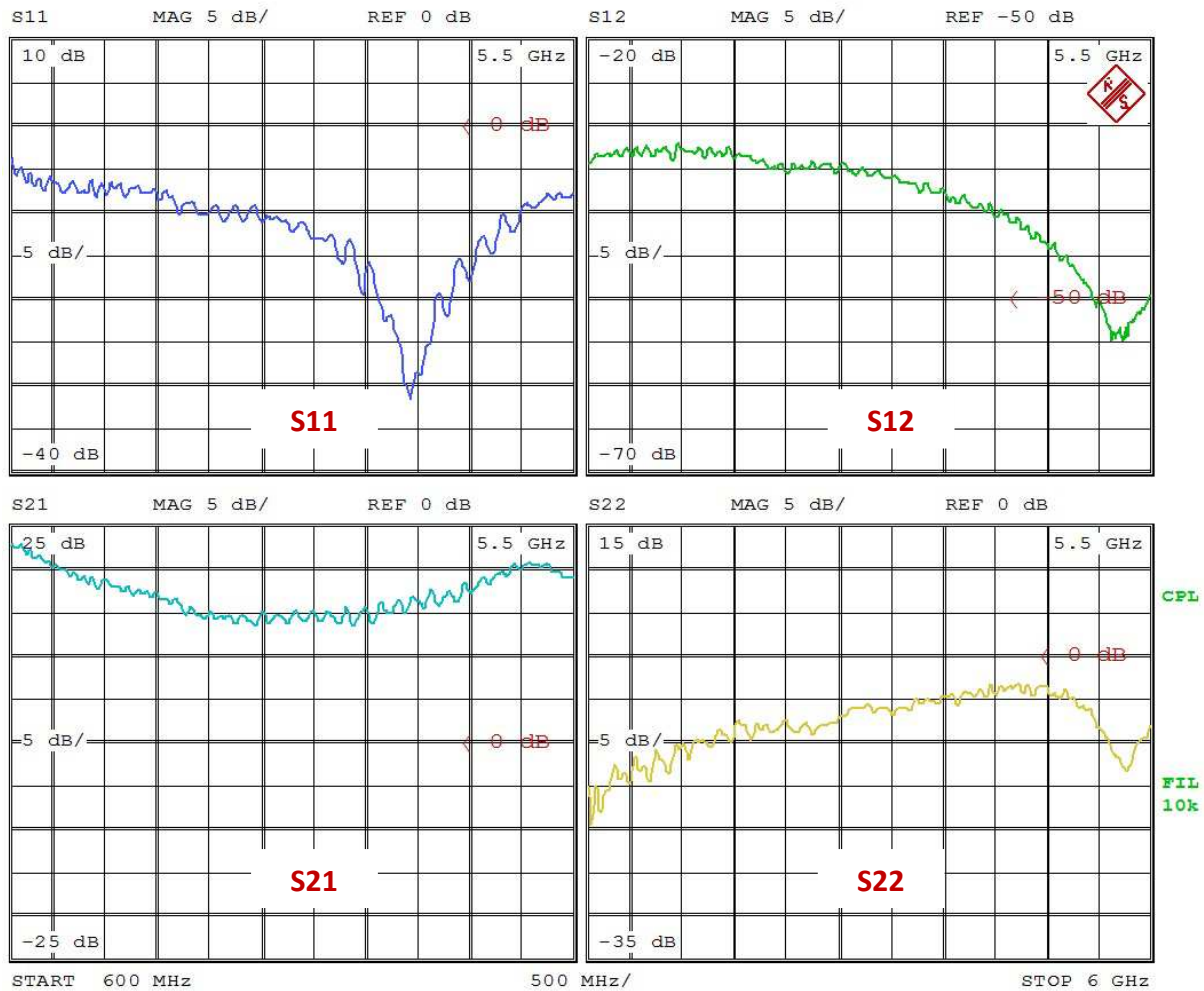
- \* 4.5G, 5G Massive MIMO
- \* Repeaters/DAS
- \* Mobile Infrastructure
- \* LTE/WCDMA/CDMA/GSM
- \* General Purpose Wireless
- \* SDR & Ham Radio
- \* Test Instrumentation



Outline Drawing (inch)



S-Parameters



<https://cdn.shopify.com/s/files/1/1592/7469/files/LNA600M6GFG.pdf>

