

50Ω Wideband 100M to 4G Hz

Case PN: 6UED2W6S1A2

**Features:**

- \* Frequency Range: 100 MHz to 4 GHz;
- \* Noise Figure: typical 1.3 dB @ 1.9 GHz
- \* Gain: 13 dB Gain at 1.9 GHz
- \* Output P1dB: +23.6 dBm CW
- \* Output IP3: +41 dBm
- \* DC Voltage: +5V
- \* Operating Current: 125 mA
- \* 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

**Product Overview:**

LNA100M6P0G is a high-linearity, ultra low noise amplifier in a small 1-1/8"x15/16"x0.59" shielded RF enclosure (PN: 6UED2W6S1A2). At 1.9 GHz, the amplifier typically provides 13 dB gain, +41 dBm OIP3 at a 125 mA bias setting, and 1.3 dB noise figure. The LNA can be biased from a single supply +5V.

**Electrical Specifications:**

Item	Parameter	Conditions	Min	Typ	Max	Units
1	Operational Frequency Range		100		4000	MHz
2	Test Frequency			1900		MHz
3	Gain		11.5	13.0	14.5	dB
4	Input Return Loss			18		dB
5	Output Return Loss			13		dB
6	Noise Figure			1.3		dB
7	Output P1dB			+23.6		dBm
8	Output IP3	Pout = +4 dBm/tone, Δf = 1 MHz	+37	+41		dBm
9	Current, I <sub>DD</sub>		40	125	150	mA

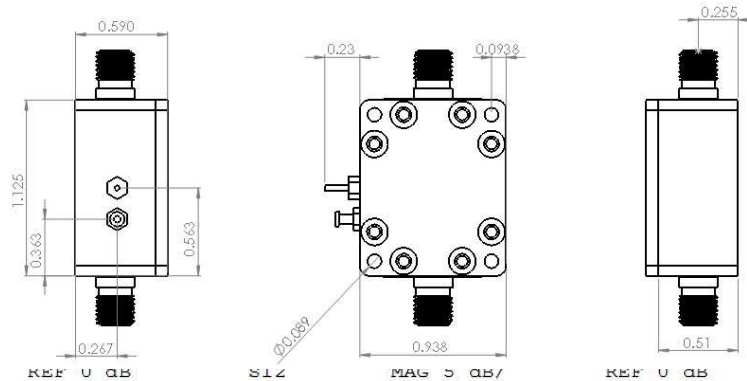
Test Conditions: V<sub>DD</sub>=+5V, I<sub>dd</sub> = 125 mA (typ.) Temp = +25 °C, 50Ω system.

**Absolute Maximum Ratings**

Item	Parameter	Rating	UNITS
1	Max Device Voltage	+7	V
2	Max RF input Power	+20	dBm
3	Operating Temperature	-40 to +85	°C
4	Max Storage Temperature	-55 to +150	°C



Outline Drawing (inch)



S-Parameters

