

50Ω (match on input & output) Broadband 2G to 18G Hz

Case PN: 6UDD2W6S1A2

Features:

- * Frequency Range: 2GHz to 18GHz;
- * Noise Figure: typical 1.4dB @ 10 GHz
- * Gain: typical 20B @ 10 GHz
- * Output P1dB: 13 dBm
- * Output IP3: 23 dBm
- * DC Voltage: +3.3~+5V
- * Operating Current: 60mA
- * Stainless Steel SMA Female Connector
- * High Quality Isola-Tera RF PCB
(very low loss and high thermal performance)
- * ROHS Compliant

General Description:

LNA2G18G is a broadband, low noise amplifier with 19 dB typical gain from 2 to 18 GHz in a small 15/16"x15/16"x0.59" shielded RF enclosure (PN: 6UDD2W6S1A2). Third order linearity (OIP3) is typically 23 dBm and reverse isolation is >35 dB.

Electrical Specifications:

Item	Parameter	Conditions	Min	Typ	Max	Units
1	Operational Frequency Range		2		18	GHz
2	Test Frequency			10		GHz
3	Gain		10	19	28	dB
4	Input Return Loss			10		dB
5	Output Return Loss			10		dB
6	Noise Figure		1.2	1.3	2.9	dB
7	Output P1dB			+14		dBm
8	Output IP3	Pout = -22 dBm/tone, Δf = 10 MHz	+18	+24	+25	dBm
9	Current, I _{DD}		40	60	80	mA

Test Conditions: V_{DD}=+5V, I_{dd} = 60 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	+10	dBm
3	Operating Temperature	-40 to +85	°C
4	Max Storage Temperature	-65 to +150	°C

Applications:

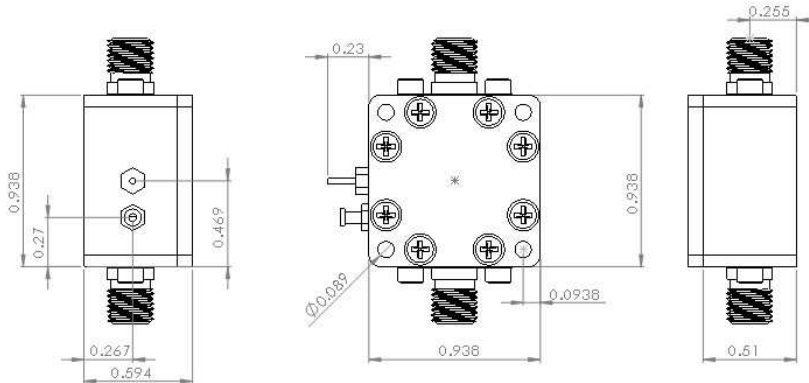
- * Test Instrumentation
- * Wideband A/D System
- * General Purpose Wireless
- * Radar & VSAT
- * SDR & Ham Radio



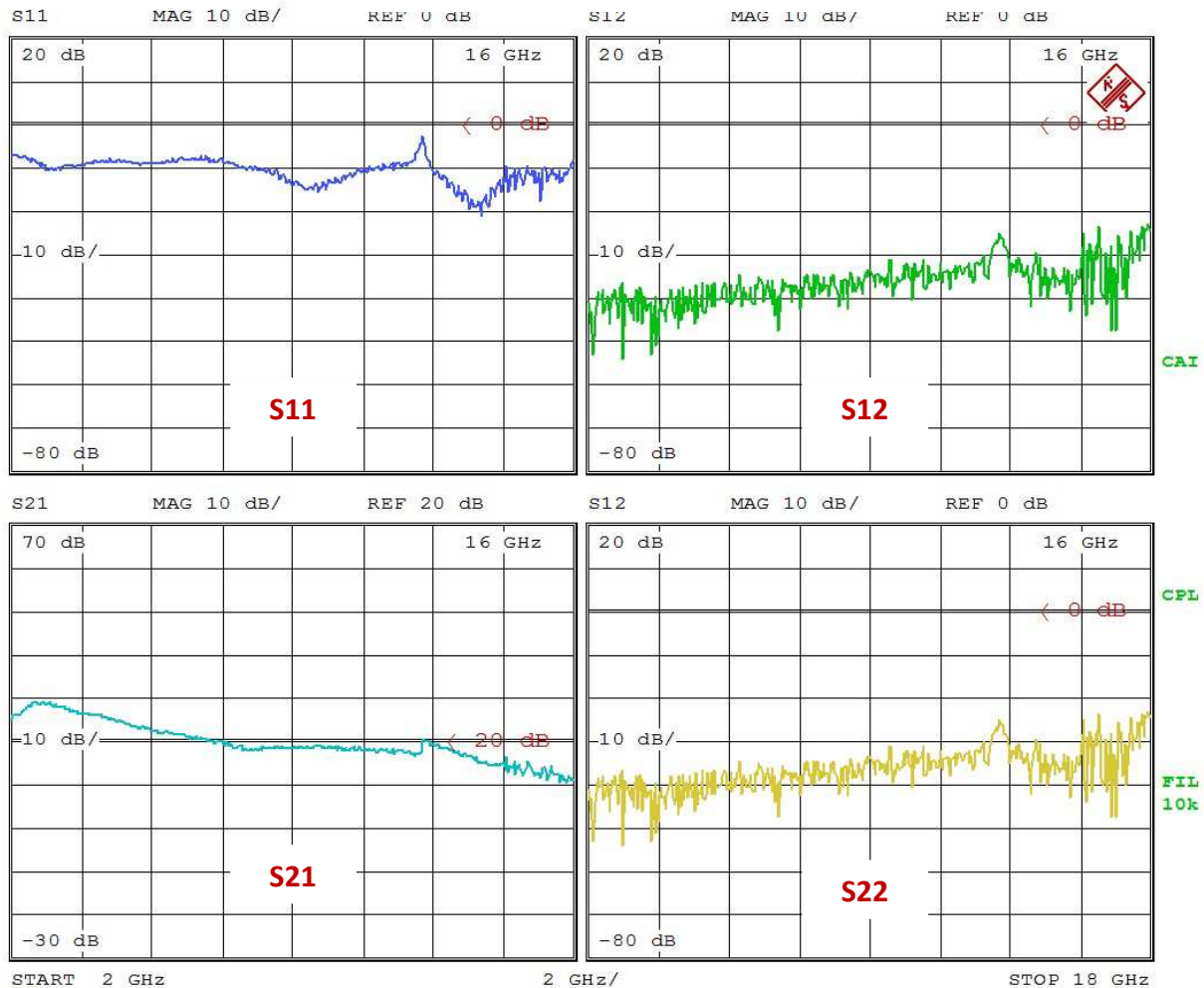
Noise Parameters

Item	Parameter	Typical Values					UNITS
		2G	6G	10G	14G	18G	
	Frequency	2G	6G	10G	14G	18G	MHz
1	Noise Figure	2.2	1.3	1.5	1.9	3.0	dB

Outline Drawing (inch)



S-Parameters



<https://cdn.shopify.com/s/files/1/1592/7469/files/LNA2G18G.pdf>

