

LNA2700 Low Noise Amplifier

700 MHz to 2700 MHz

LNA2700

Description

LNA2700 is a wideband Low Noise Amplifier with excellent gain flatness and excellent linearity across its 700-2700 MHz frequency band.

Features

- Excellent flat gain performance
- 16 dB typical small signal gain
- Low power consumption
- Low-Noise Figure of 2 dB

Applications

- Cellular Infrastructure 2G/3G/4G LTE systems
- Micro/Macro/Small-cell base stations
- Personal radios and military applications
- Professional Radio Communications
- Test Instrumentation
- Repeaters
- Wireless infrastructure: WLAN, WiMAX.
- Satellite receivers



LNA2700 Low Noise Amplifier

700 MHz to 2700 MHz

Electrical Specifications

Parameter	Minimum	Typical	Maximum	Unit
Frequency Range	700		2700	MHz
Saturated Output Power		18		dBm
1 dB Output Compression Point		15		dBm
Noise Figure		2		dB
Small Signal Gain (S21)	15	16	17	dB
Input Return Loss (S11)	-21	-18	-14	dB
Output Return Loss (S22)	-25	-17	-12	dB

Max. Ratings

DC Voltage (RF in , RF out)	25 Vdc
RF input power	+20 dBm
Operating Temperature	-40°C to 85°C

Exceeding any of the limits of this section may lead to permanent damage to the device. Furthermore, extended operation at these maximum ratings may reduce the lifetime of this device

LNA2700 Low Noise Amplifier

700 MHz to 2700 MHz

Typical Characteristics

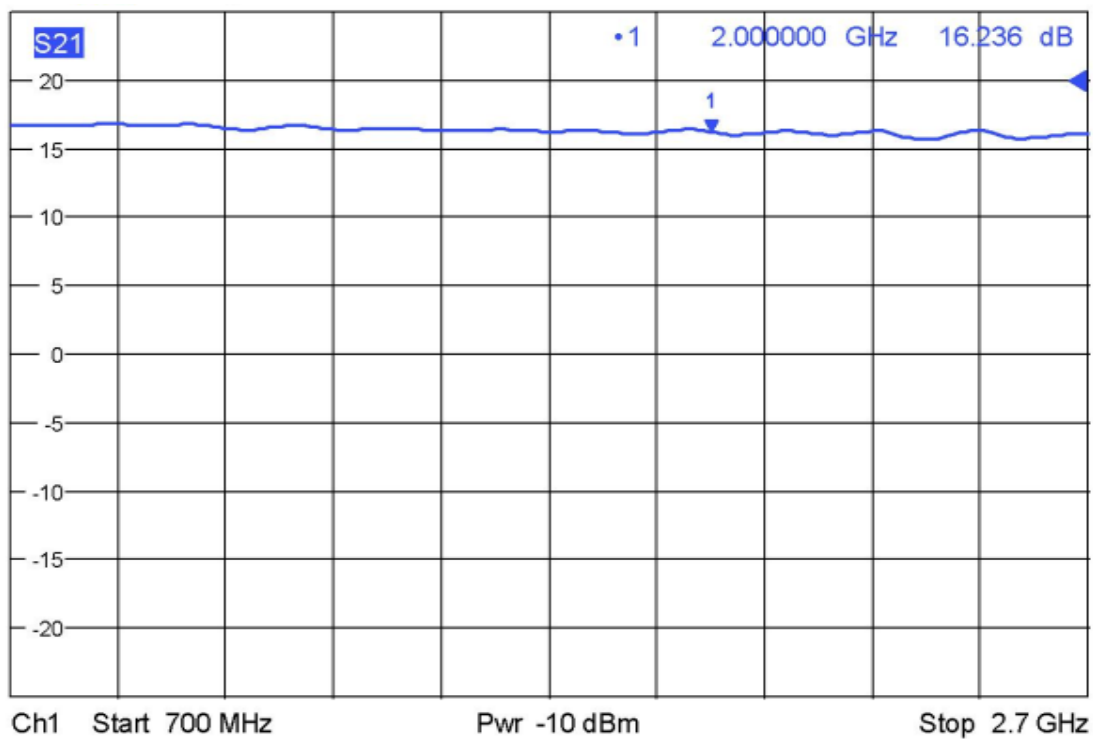


Figure 1, Small Signal Gain (S21) vs Frequency

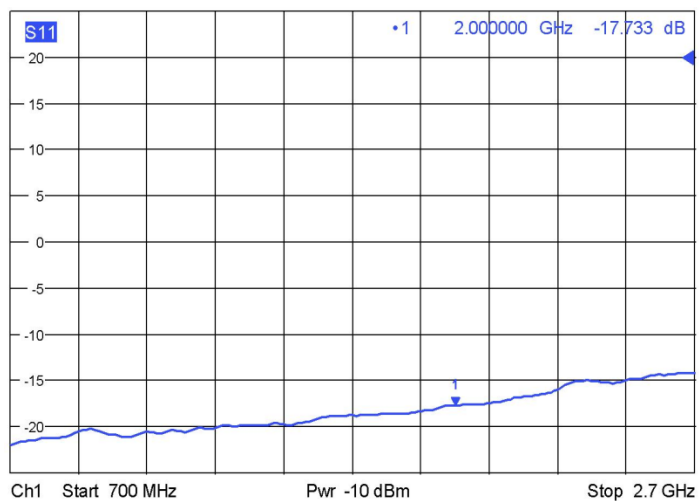


Figure 2, Input Return Loss (S11) vs Frequency

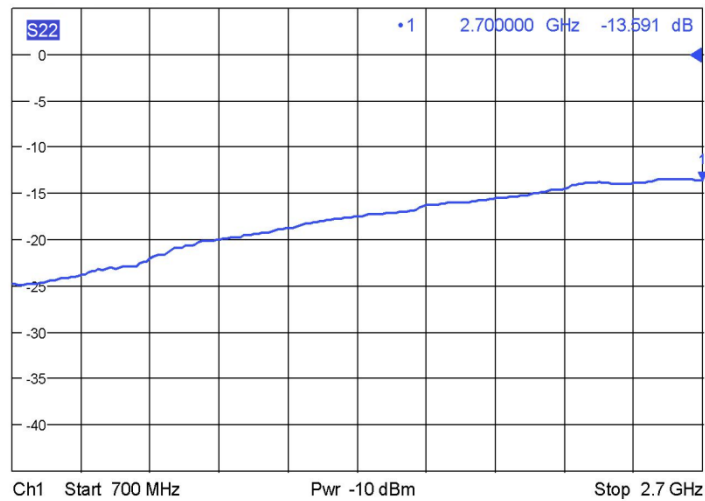


Figure 3, Output Return Loss (S22) vs Frequency