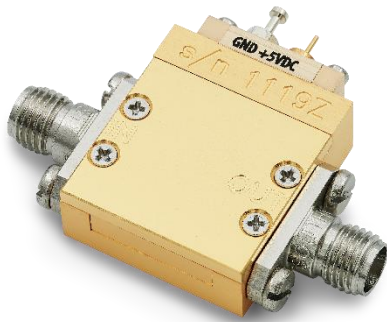


Datasheet

LNF-LNR1_15A_SV

1-15 GHz Low Noise Amplifier



Product Features

RF Bandwidth	1-15 GHz
Noise Temperature	57 K
Noise Figure	0.78 dB
Gain	36 dB
DC power (typical)	$V_{ds} = 5\text{ V}$, $I_{ds} = 50\text{ mA}^*$
RF Connectors	Female SMA**
DC Connectors	2-pin Turret Connector

Single 5V supply only

*See test report for actual optimum bias for your unit

** Contact Factory for alternative configuration

Absolute maximum ratings

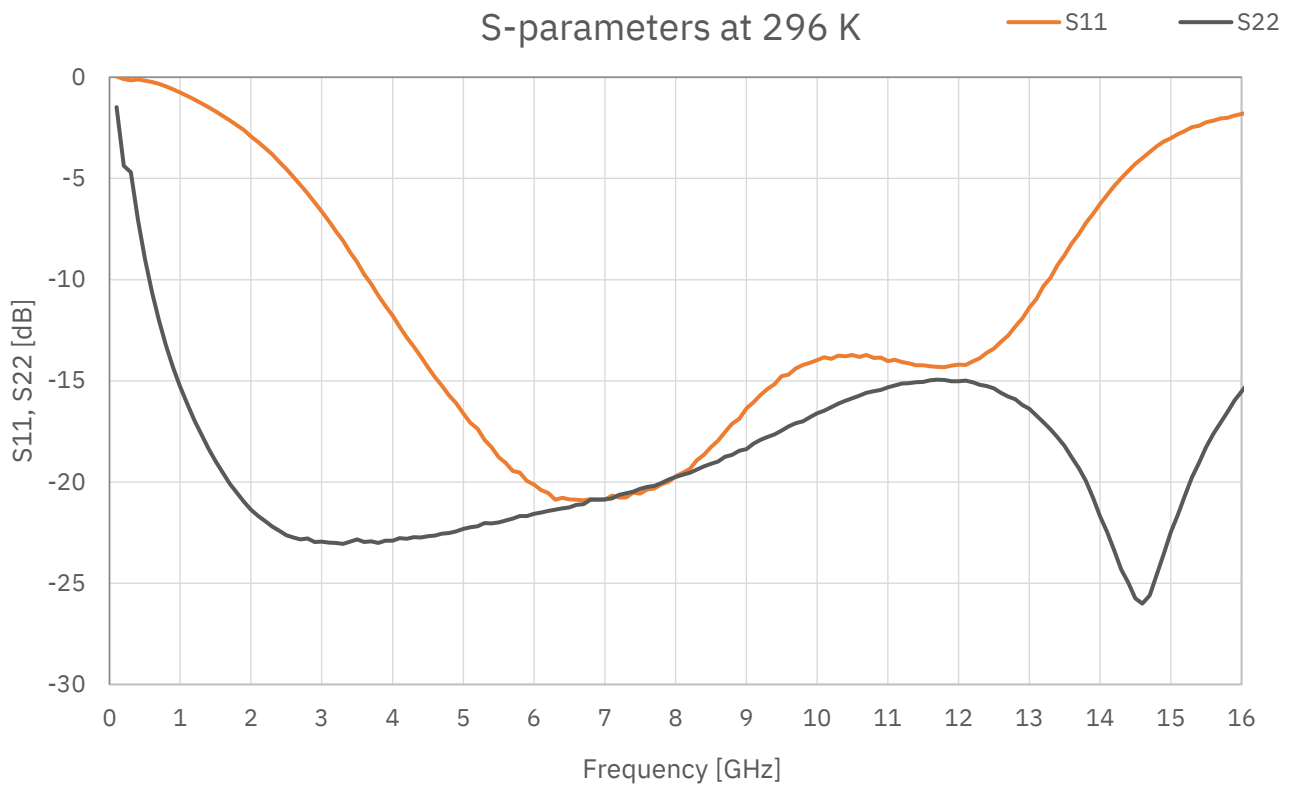
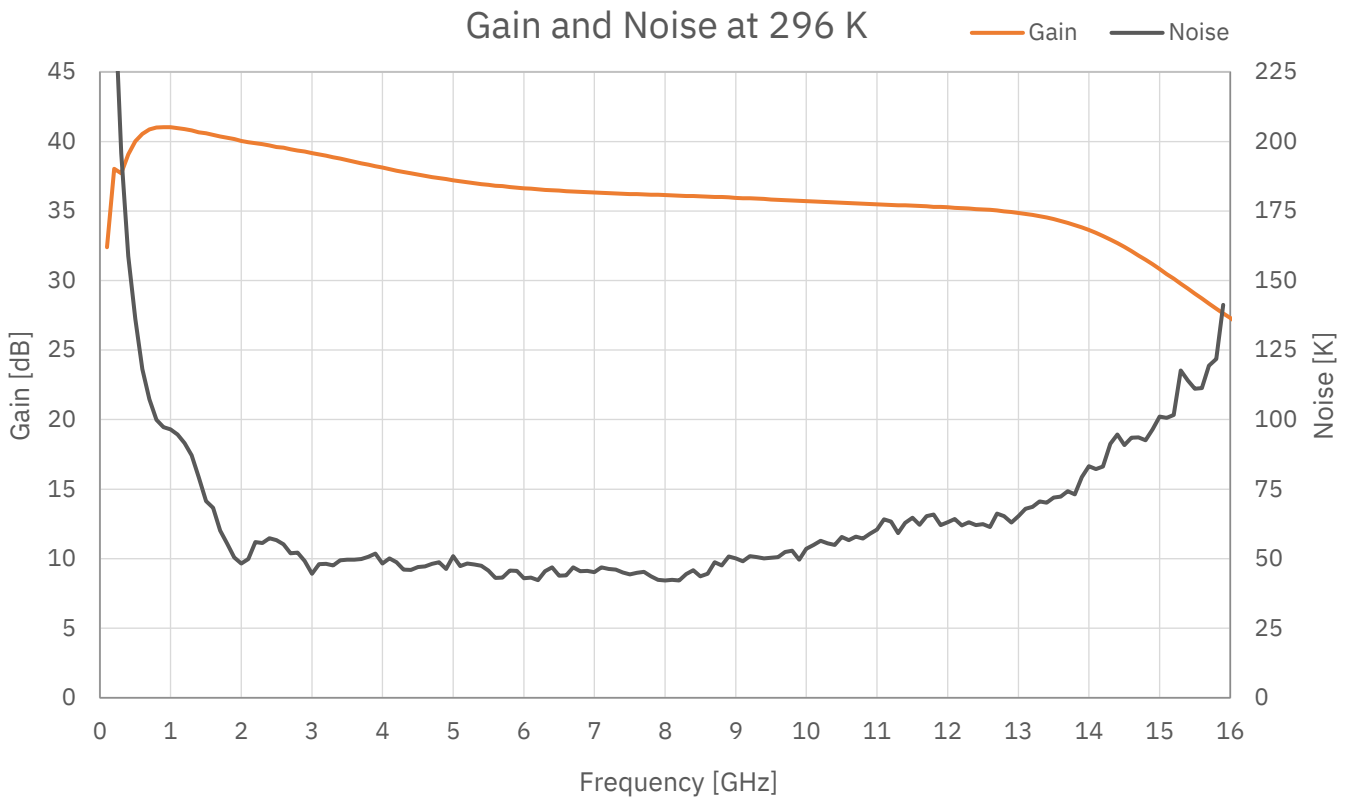
Parameter	Min	Max
DC Voltage on Input and Output	-30 V	30 V
RF Input Power		0 dBm
Operating Temperature	-40 °C	+85 °C

Typical Characteristics

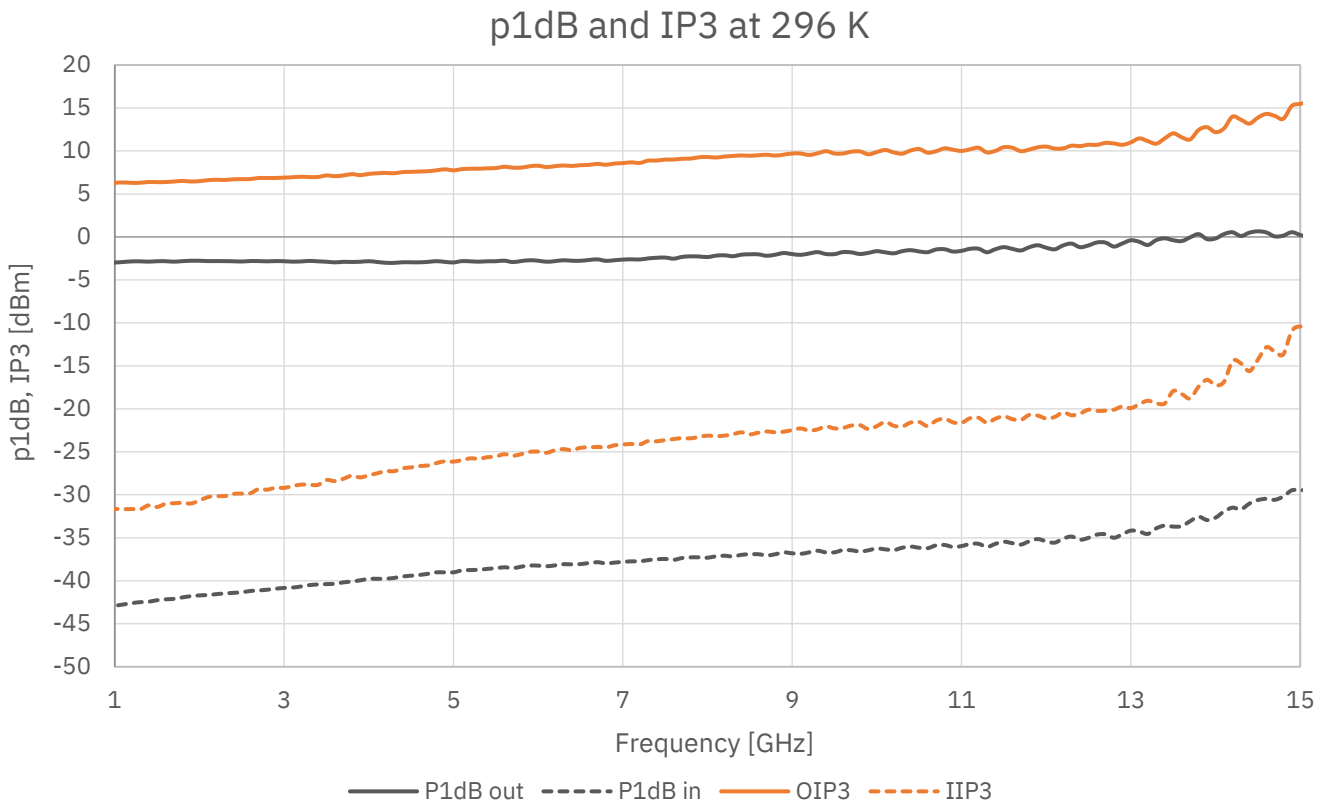
Parameter	Value	Unit
IRL	10	dB
ORL	15	dB
Output P1dB	-2	dBm
OIP3	9	dBm
Weight	14	grams

LNF-LNR1_15A_SV is a room temperature amplifier using LNF's proprietary InP HEMT technology. MMIC technology ensures excellent unit-to-unit variation. The LNA is packaged in a coaxial module using industry standard SMA connectors for the RF ports and 2-pin turret connectors to provide the DC. The lightweight gold plated aluminum body measures 22.0x19.6x7.8 mm excluding the connectors. The LNA is not hermetic and must be operated in a vacuum environment when below the dewpoint. All amplifiers are tested at 296 K and delivered with a test report.

Measured data, $T_{amb} = 296\text{ K}$



Measured data, $T_{amb} = 296\text{ K}$



Dimensions and wiring

Units: mm

