

# Datasheet

## LNF-LNR19\_34WA\_SV

19-34 GHz Low Noise Amplifier



### Product Features

RF Bandwidth	19-34 GHz
Noise Temperature	115 K
Noise Figure	1.45 dB
Gain	37 dB
DC power (typical)	V = 5 V, I = 50 mA
RF Connectors	WR34, UG1530/U
DC Connectors	2-pin Turret Connector
Single 5V supply only	

### Absolute maximum ratings

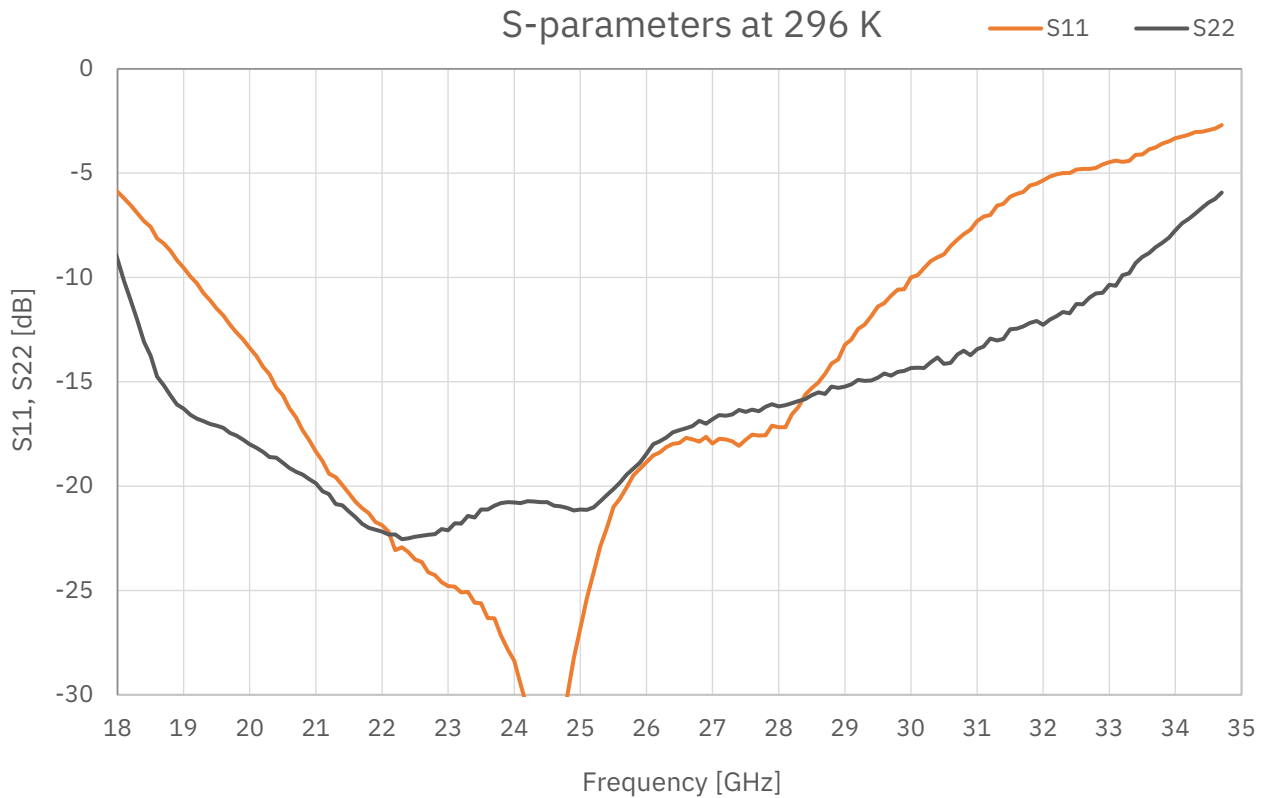
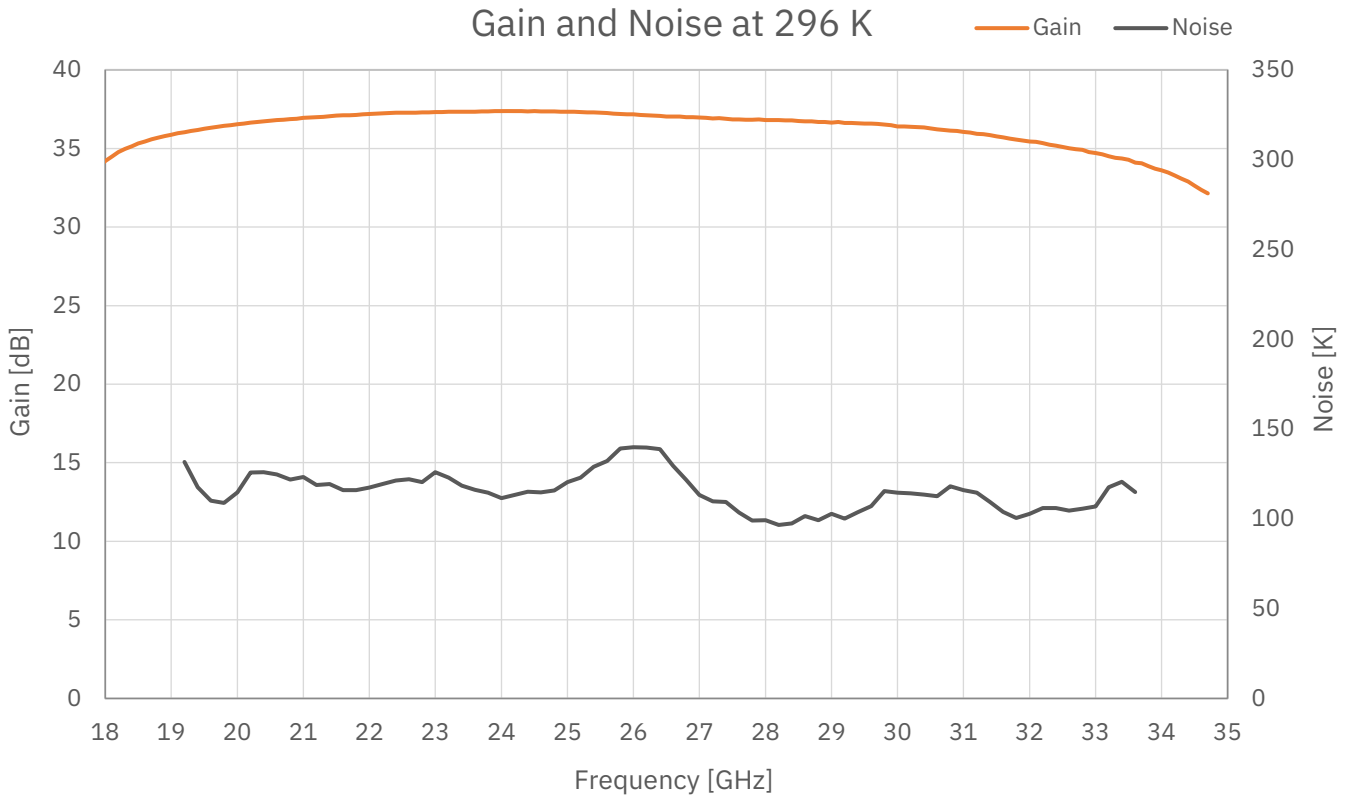
Parameter	Min	Max
DC Voltage on Input and Output	-30 V	30 V
RF Input Power		0 dBm
Operating Temperature	-40 °C	+85 °C

### Typical Characteristics

Parameter	Value	Unit
IRL	15	dB
ORL	15	dB
Output P1dB	0.5	dBm
OIP3	10	dBm
Weight	56	grams

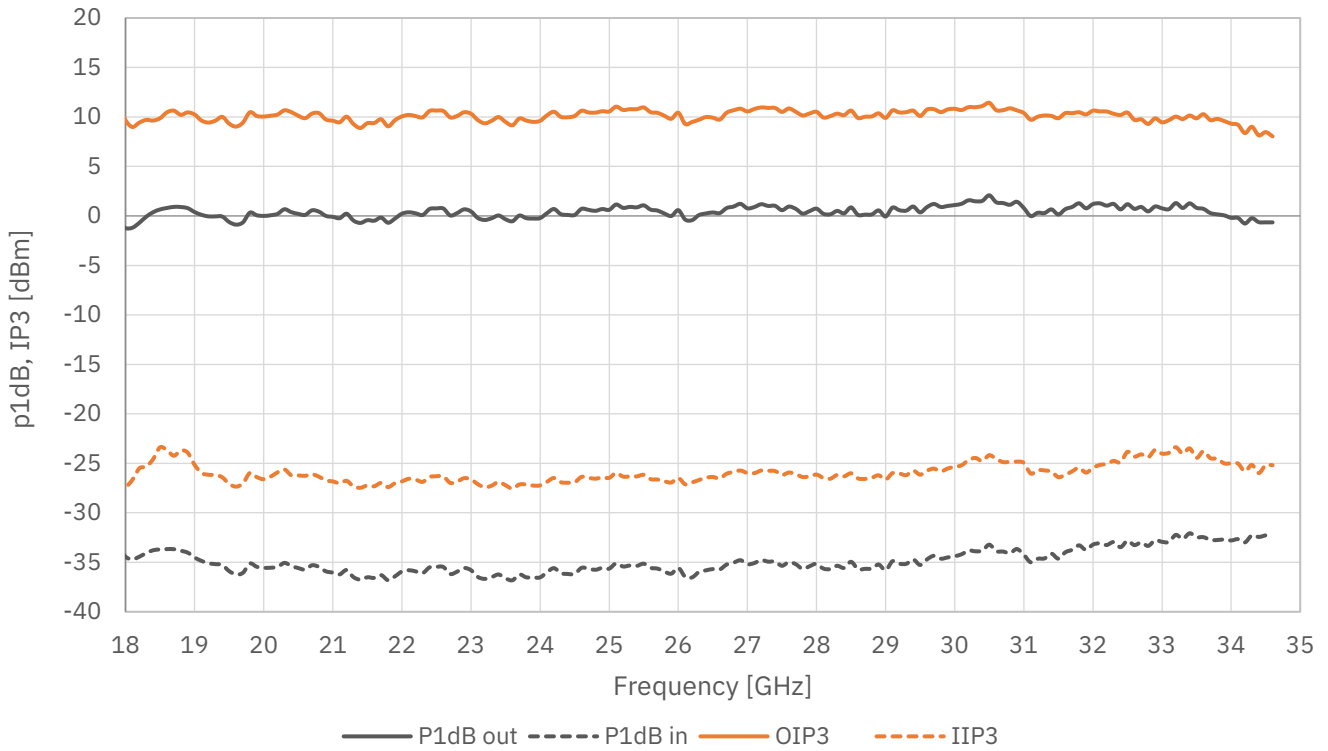
LNF-LNR19\_34WA\_SV is a room temperature amplifier using LNF's proprietary InP HEMT technology. MMIC technology ensures excellent unit-to-unit variation. The LNA is packaged in a waveguide module using industry standard WR34 connectors for the RF ports and 2-pin turret connectors to provide the DC. The lightweight gold plated aluminum body measures 27.39x33.56x22.50 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,  $T_{amb} = 296\text{ K}$

p1dB and IP3 at 296 K



## Dimensions and wiring

Units: mm



Flange UG1530/U

