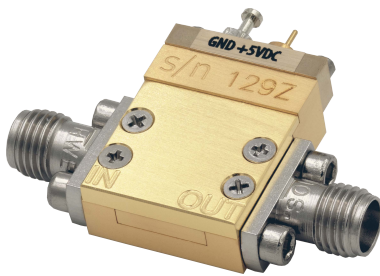


# Datasheet

## LNF-LNR23\_42B\_SV

23-42 GHz Low Noise Amplifier



### Product Features

RF Bandwidth	23-42 GHz
Noise Temperature	132 K
Noise Figure	1.63 dB
Gain	28 dB
DC power (typical)	V = 5 V, I = 40 mA
RF Connectors	Female K (2.92 mm)*
DC Connectors	2-pin Turret Connector
Single 5V supply only	

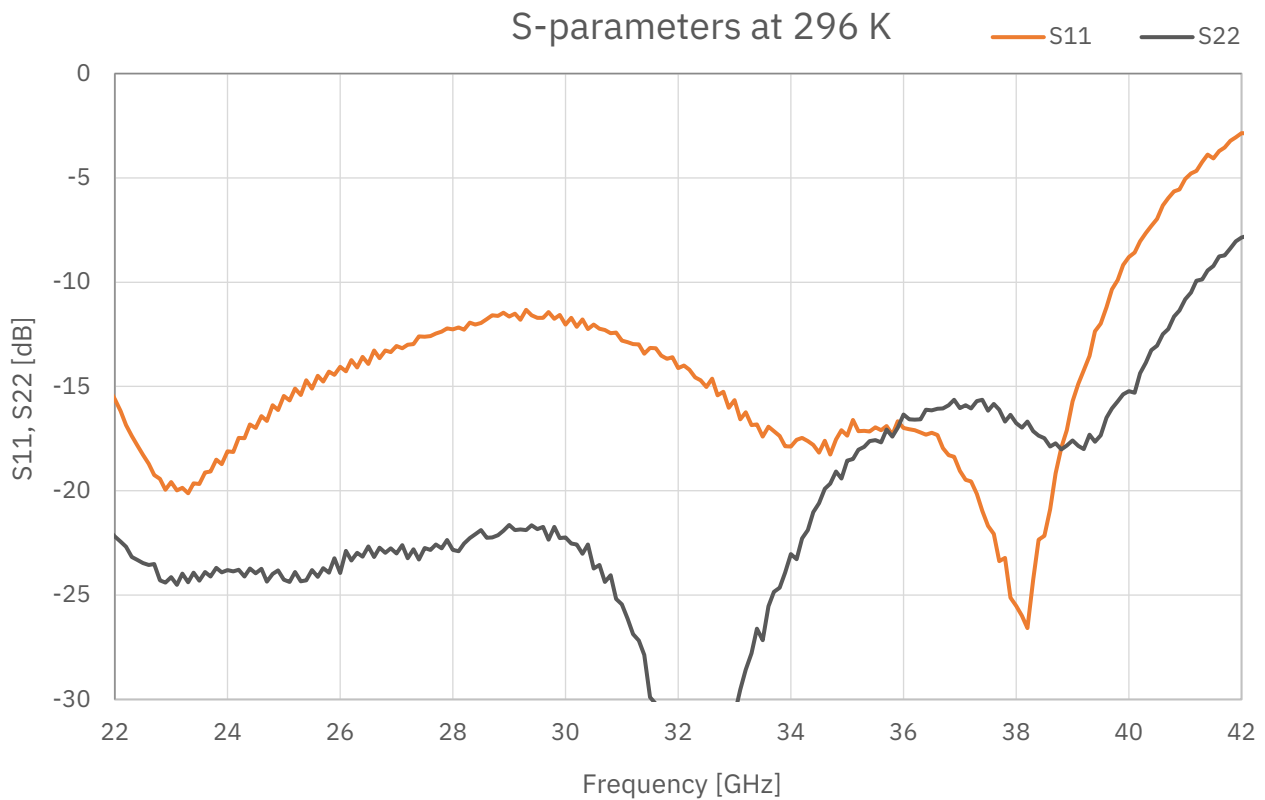
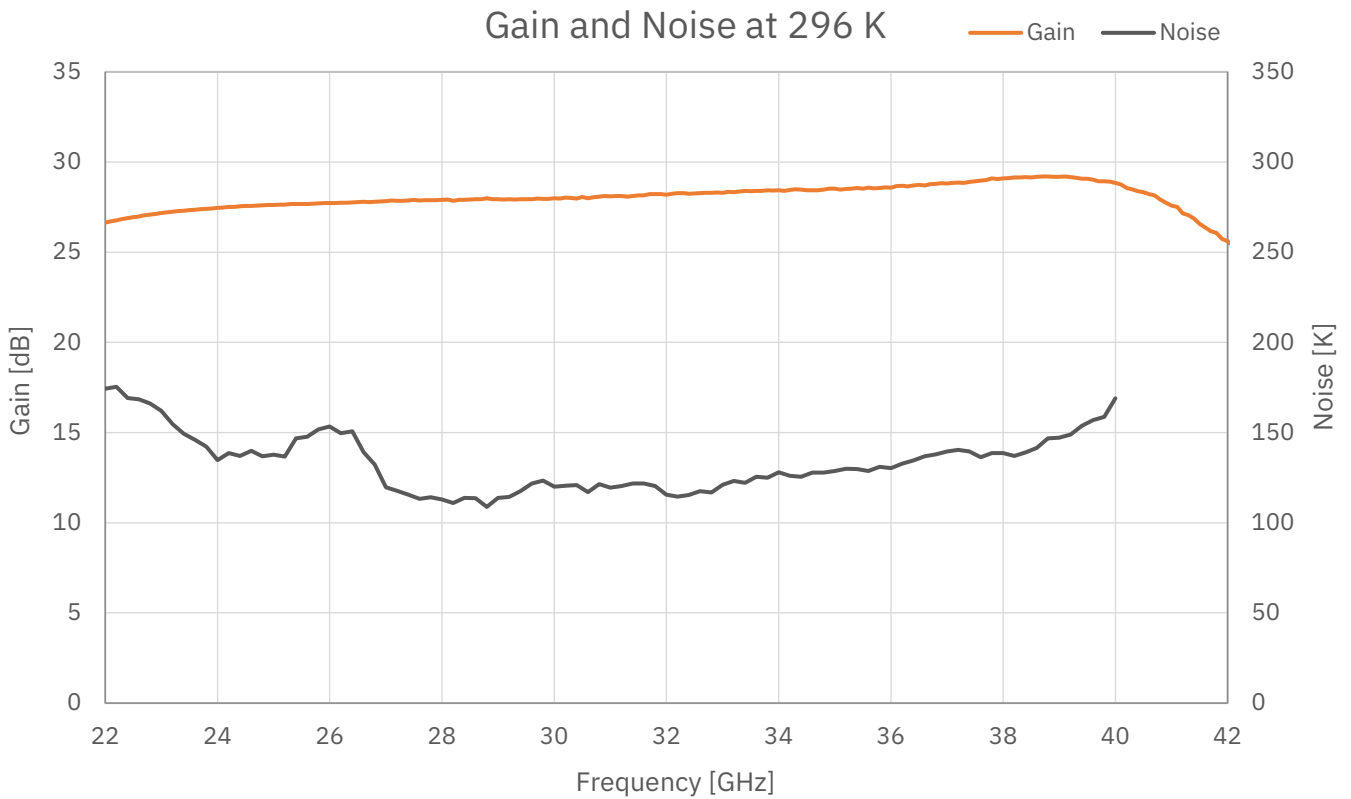
\* Contact factory for alternative configuration

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

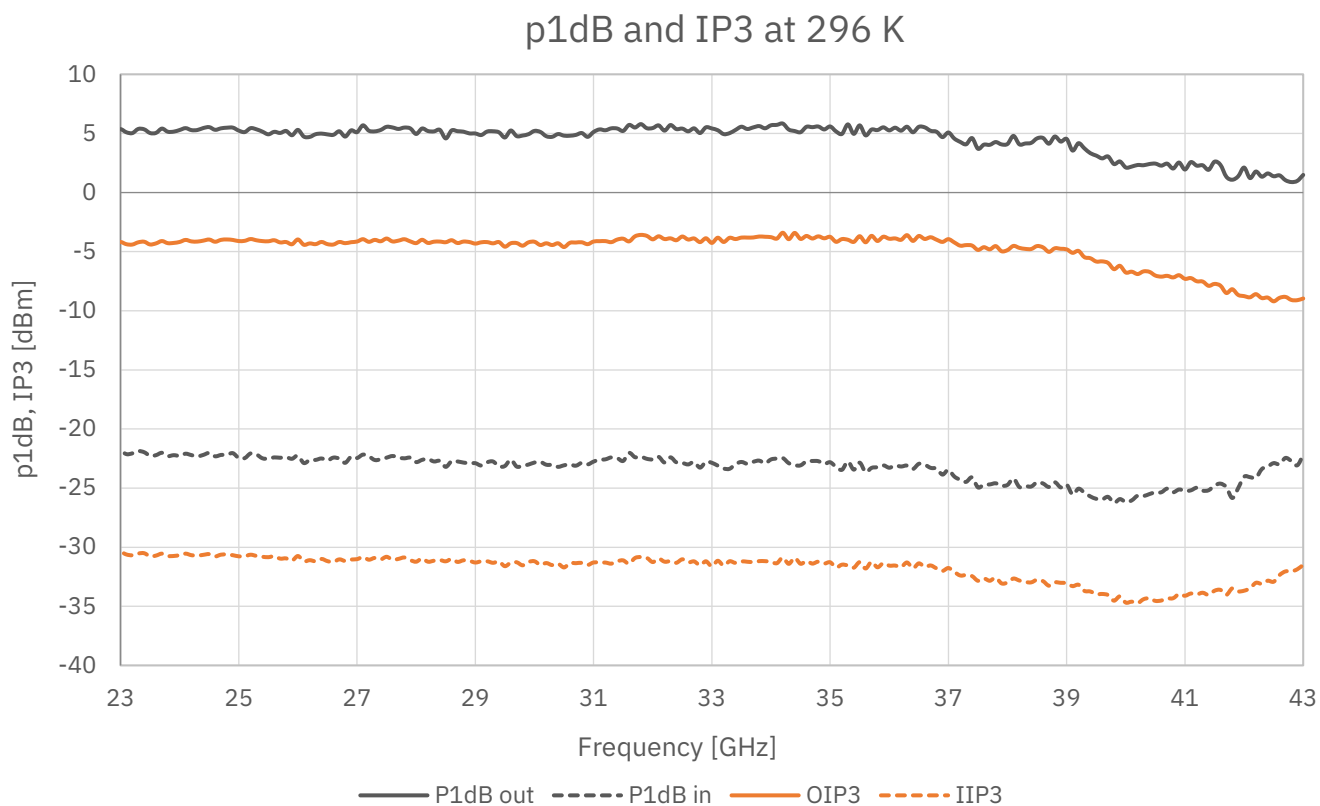
Typical Characteristics		
Parameter	Value	Unit
IRL	12	dB
ORL	18	dB
Output P1dB	5	dBm
OIP3	-5	dBm
Weight	9	grams

LNF-LNR23\_42B\_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 K (2.92mm) connectors for the RF ports and and 2-pin turret connectors to provide the DC. The lightweight gold plated aluminum body measures 17.80x15.15x6.80 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,  $T_{amb} = 296$  K



## Dimensions and wiring

Units: mm

