

Datasheet

LNF-LNR16_28WA_SV

16-28 GHz Low Noise Amplifier



Product Features

RF Bandwidth	16-28 GHz
Noise Temperature	129 K
Noise Figure	1.6 dB
Gain	37 dB
DC power (typical)	V = 5 V, I = 60mA
RF-Input Connector	WR42, UBR 220
RF-Output Connector	Female K (2.92 mm)*
DC Connectors	2-pin Turret Connector
Single 5V supply only	

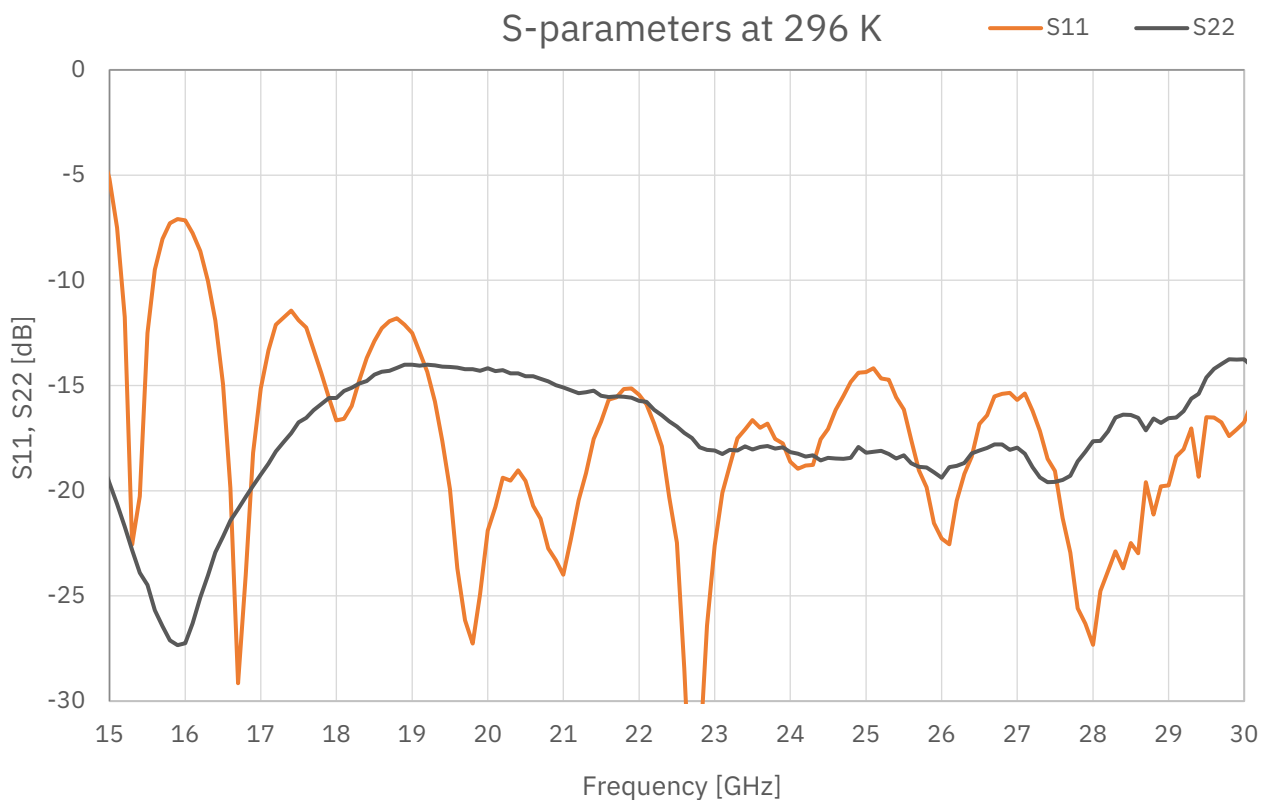
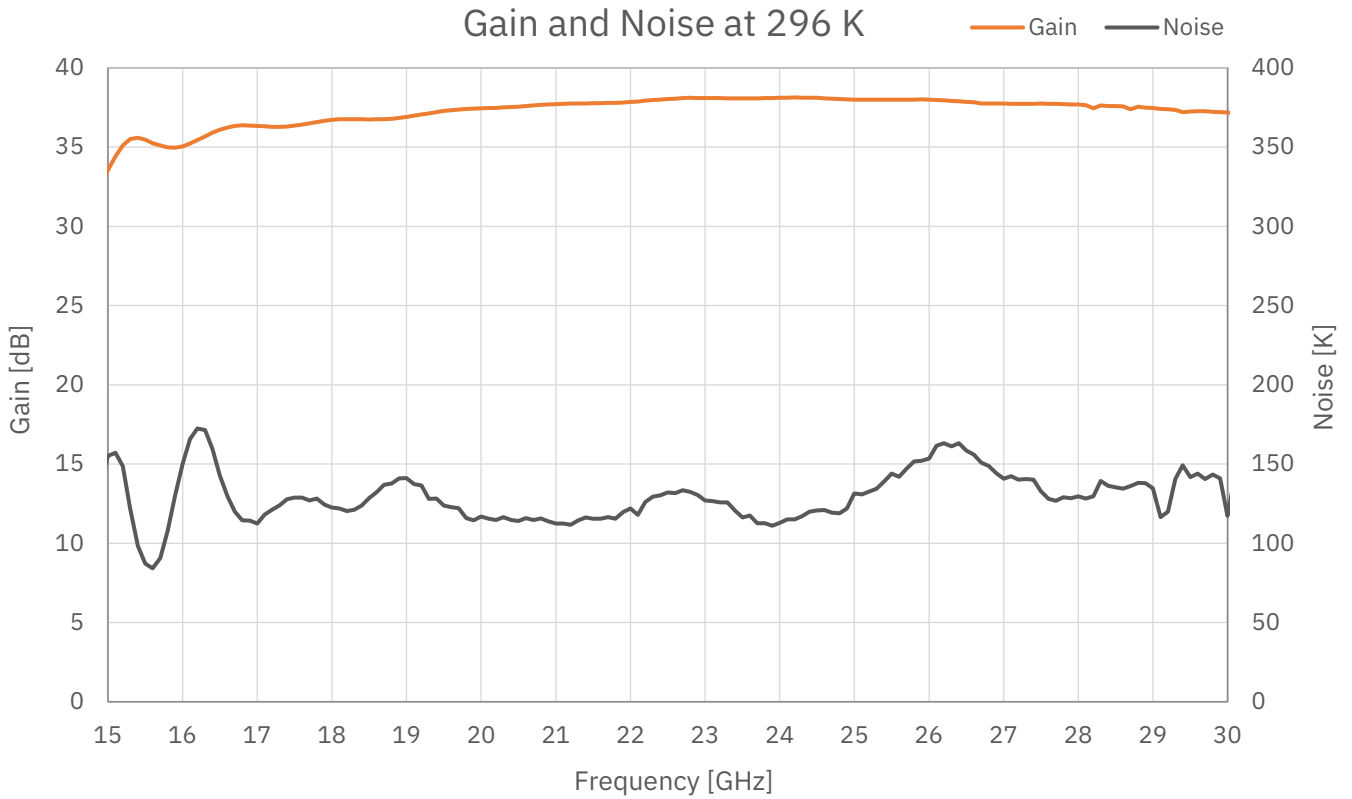
* Contact factory for alternative configuration

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

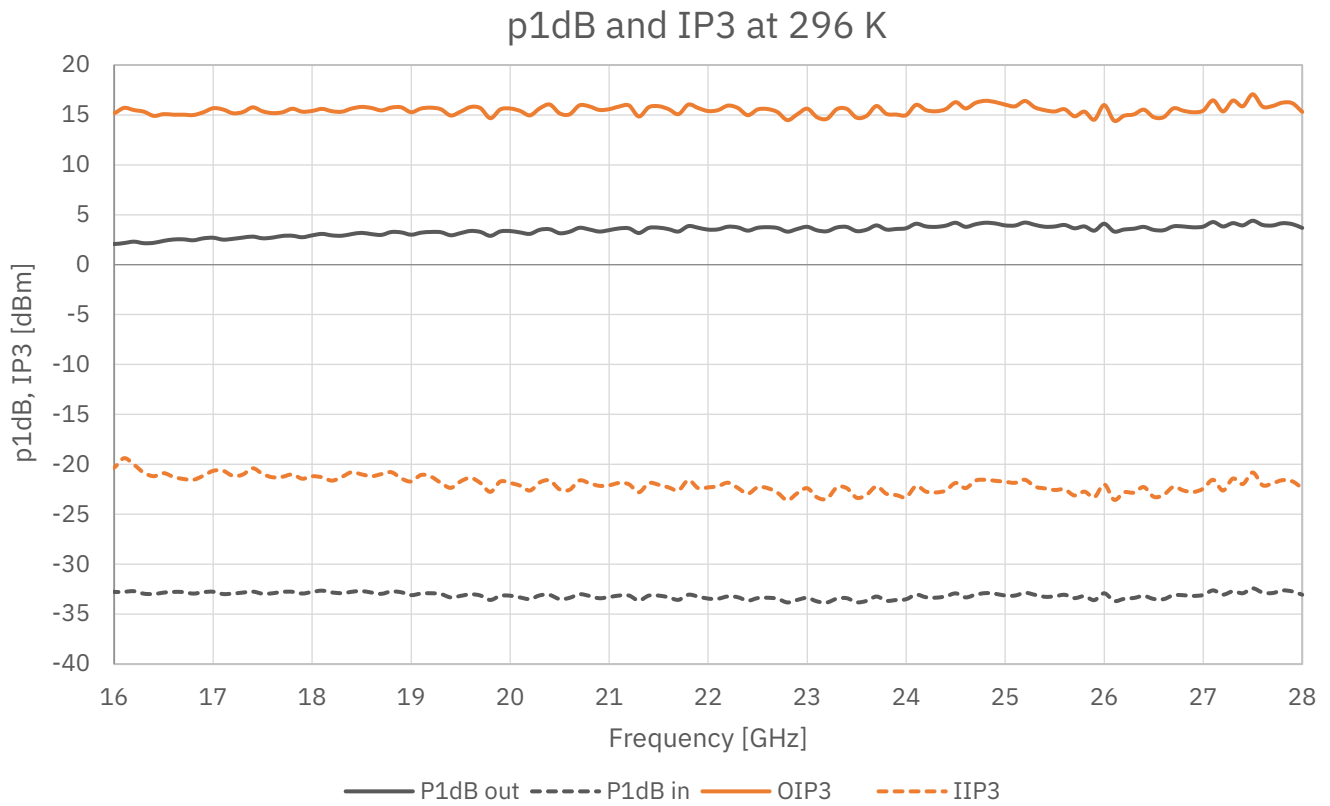
Typical Characteristics		
Parameter	Value	Unit
IRL	15	dB
ORL	15	dB
Output P1dB	3	dBm
OIP3	15	dBm
Weight	55	grams

LNF-LNR16_28WA_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 using industry standard WR42 and K (2.92mm) connectors for the RF ports and 2-pin turret connectors to provide the DC. The lightweight gold plated aluminum body measures 24.79x34.43x23.20 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

