



Product features

- RF bandwidth: 19-34 GHz
- Noise Temperature: 142 K typical
- Noise Figure: 1.73 dB typical
- Gain: 31 dB
- DC-power: $V_d=1.6$ V, $I_d=40$ mA
- One gate and one drain supply only
- RF-connector: WR34, UG1530/U
- DC-connector: 9-pin female Nano-D

Product description

LNF-LNR19_34WA is an ultra-low noise amplifier operating in the 19-34 GHz frequency range. The LNA is packaged in a waveguide module using industry standard WR34 and Nano-D connectors. The lightweight gold plated aluminum module measures 27.39*33.56*22.50 mm excluding the connectors.

Absolute maximum ratings

Parameter	Min	Max
V_{ds}	-0.5 V	3 V
I_{ds}		100 mA
V_{gs}	-20 V	+20 V
RF Input drive level		-10 dBm

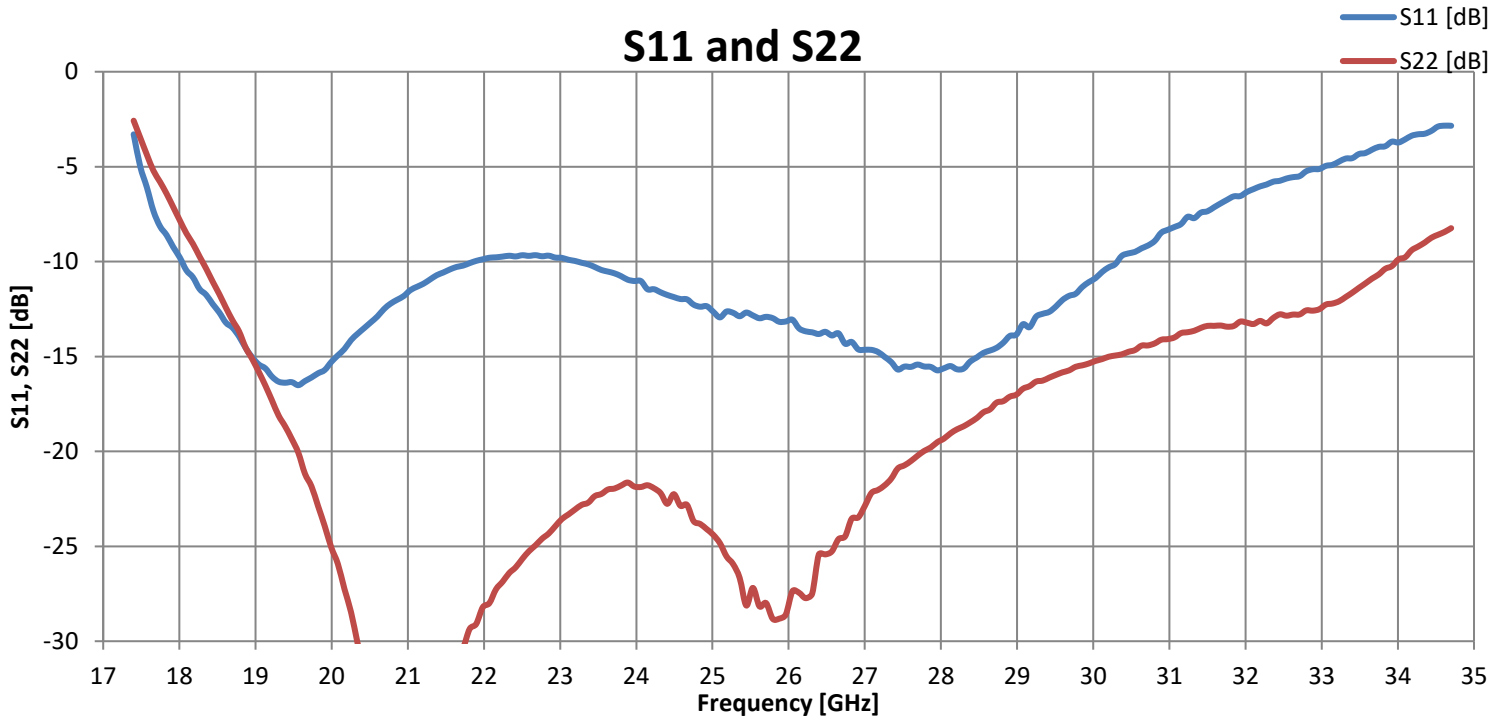
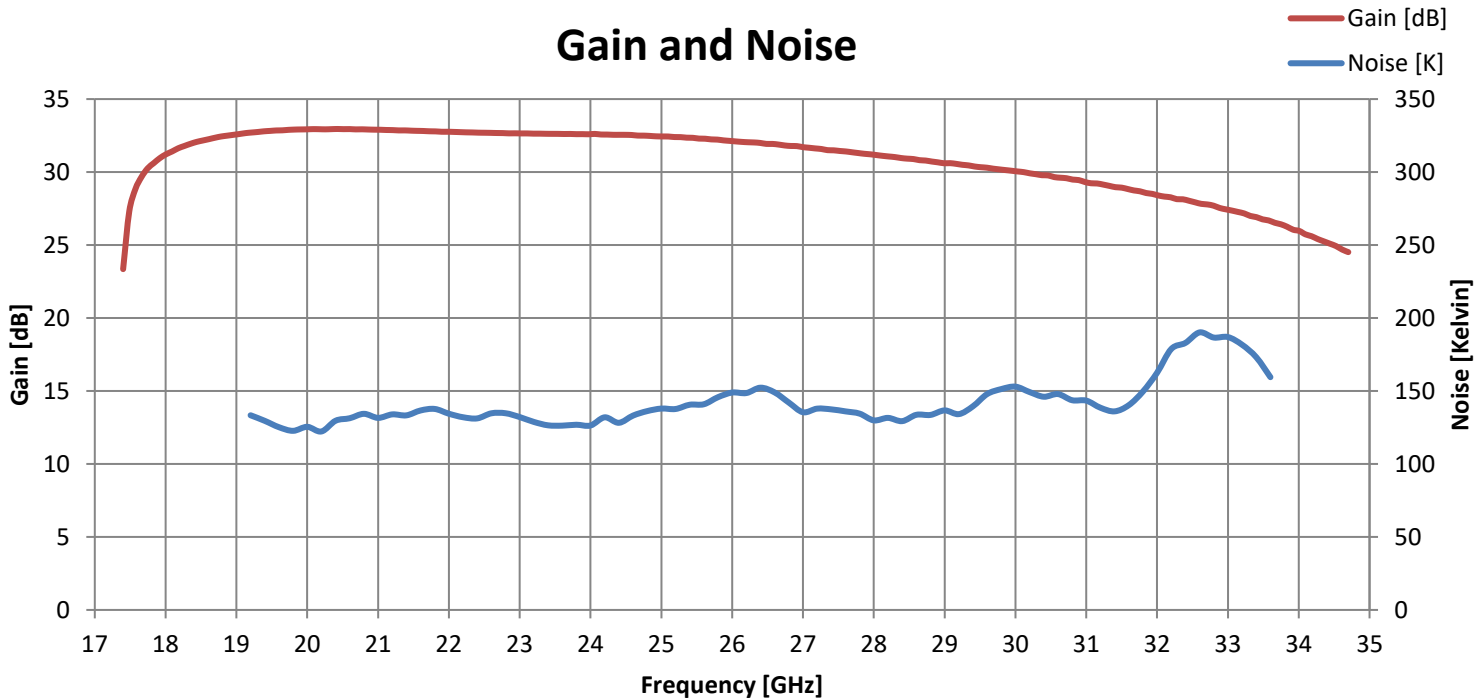
Typical RF Characteristics

Parameter	Test Condition	Value	Unit
Gain	19-34 GHz	31	dB
Noise	19-34 GHz	142	K
IRL	19-34 GHz	12	dB
ORL	19-34 GHz	17	dB

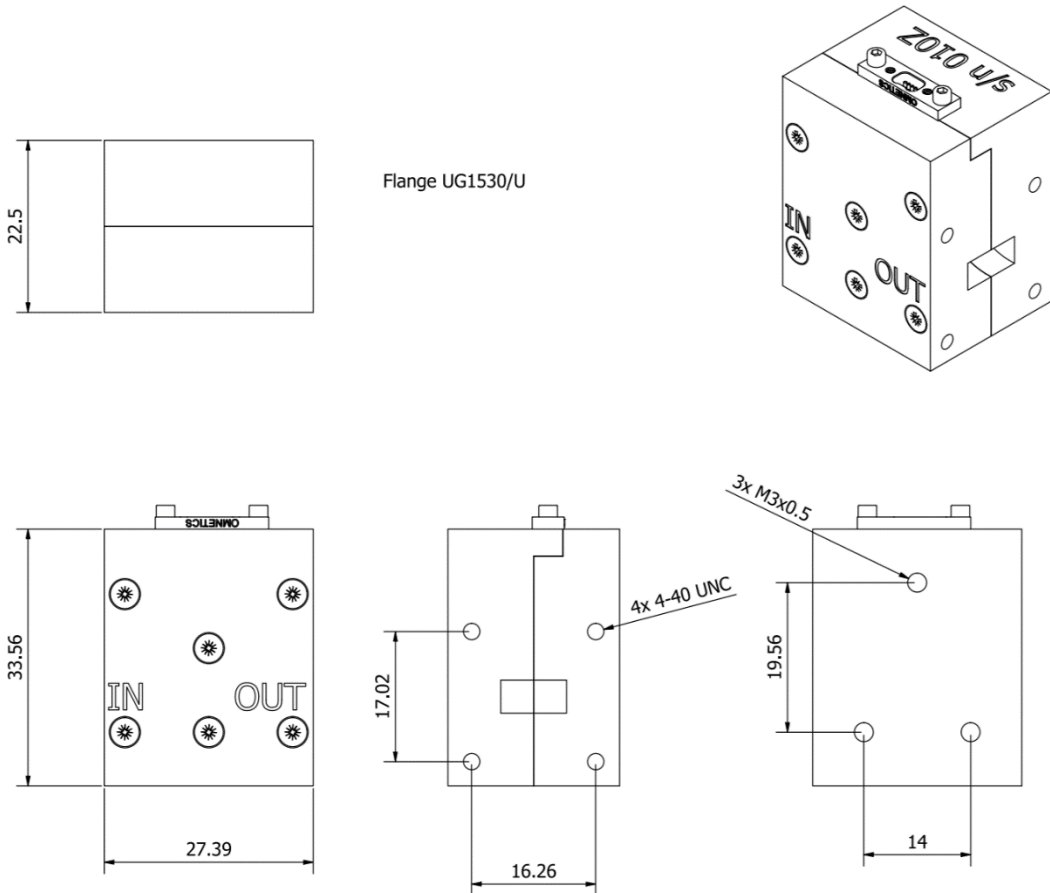
Typical DC Characteristics

Parameter	Value	Unit
V_{ds}	1.6	V
I_{ds}	40	mA
V_{gs}	+0.15	V
I_{gs}	11	μ A
P_{dc}	64	mW

Measured typical data @ $T_{amb}=296$ K



Drawings



Dimensions are in millimeters