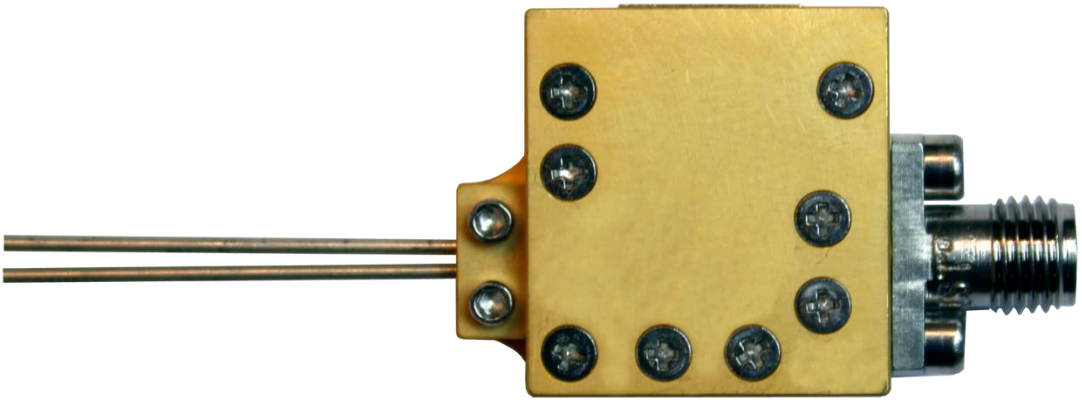
LNF-ABLNC1_15A s/n 0004A

1-15 GHz Cryogenic Low Noise Amplifier

Fraunhofer

Oct 31, 2013



Absolute maximum ratings

Parameter	Min	Max
V_{ds}	-0.5 V	3 V
I_{ds}		150 mA
V_{gs}	-12 V	+12 V
V_m	-2.0 V	+0.5 V
I_m	-80 mA	
RF Input drive level		0 dBm

Nominal bias @ 296 K

Parameter	Value
V_{ds}	1.70 V
I_{ds}	90 mA
V_{gs}	-1.34 V
V_m	-1.20 V
I_m	-58 mA

Nominal bias @ 65 K

Parameter	Value
V_{ds}	1.40 V
I_{ds}	60 mA
V_{gs}	
V_m	-0.75 V
I_m	≈ -38 mA

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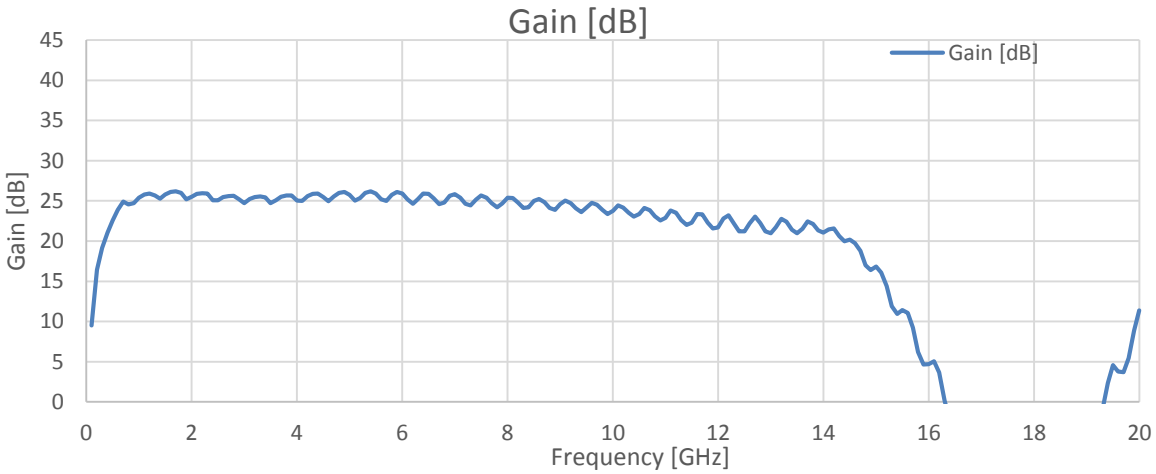
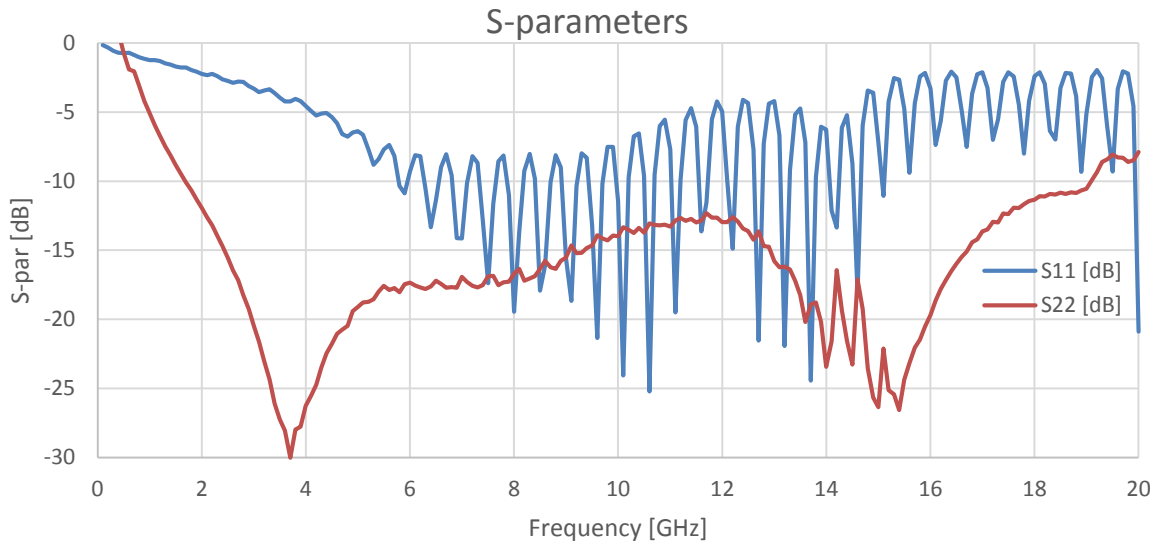
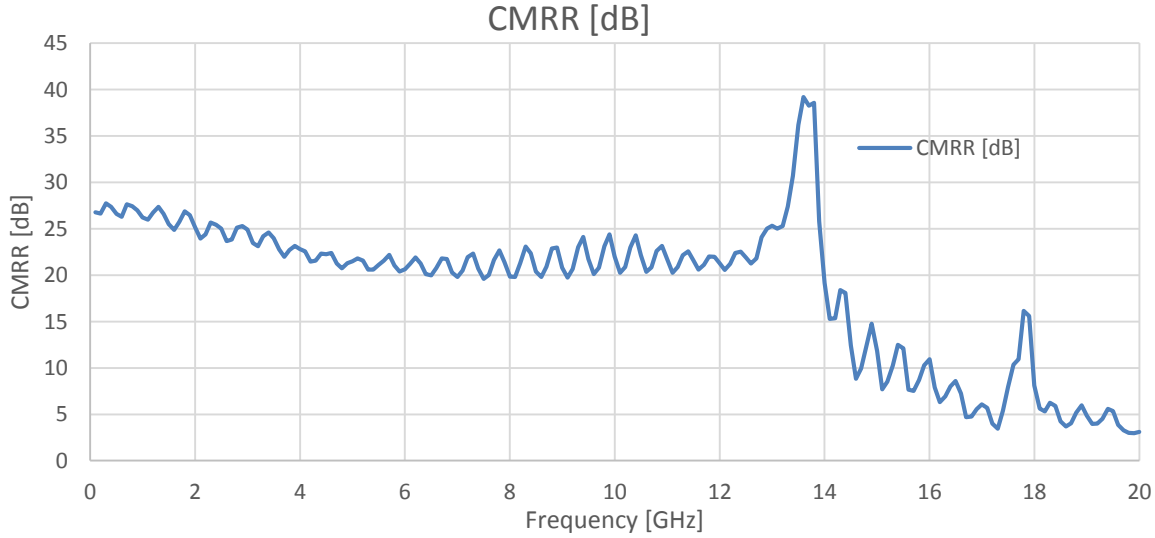
Measured data, Tamb=296 K







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Nano-D panel connector seen from outside the LNA