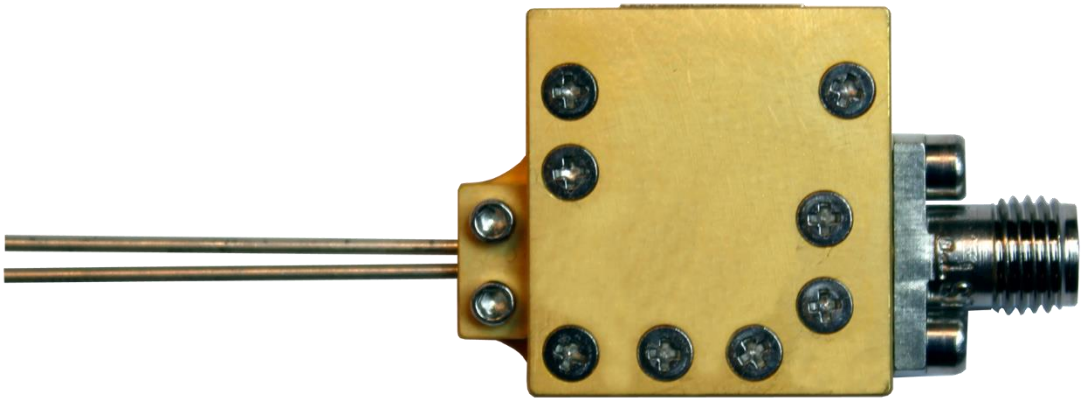
# LNF-ABLNC1_15A s/n 0034A

## 1-15 GHz Cryogenic Low Noise Amplifier

Feb 26, 2017



### 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 |
|---|---|
| $V_{ds}$ | 2.10 V |
| $I_{ds}$ | 90 mA |
| $V_{gs}$ | -0.31 V |
| $V_m$ | -1.20 V |
| $I_m$ | -51.5 mA |

### Nominal bias @ 65 K

| Parameter | Value |
|---|---|
| $V_{ds}$ | 1.20 V |
| $I_{ds}$ | 25 mA |
| $V_{gs}$ | |
| $V_m$ | -0.50 V |
| $I_m$ | ≈ -17 mA |

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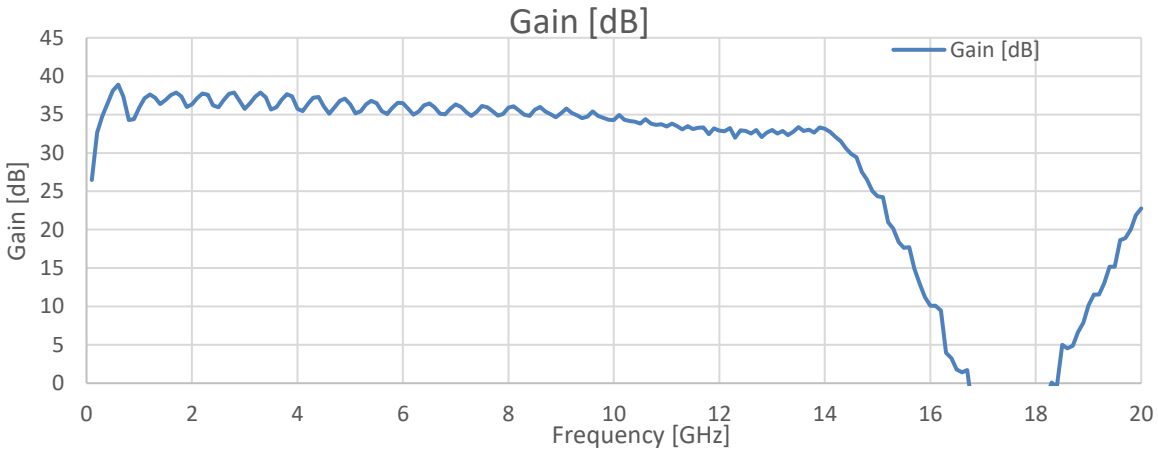
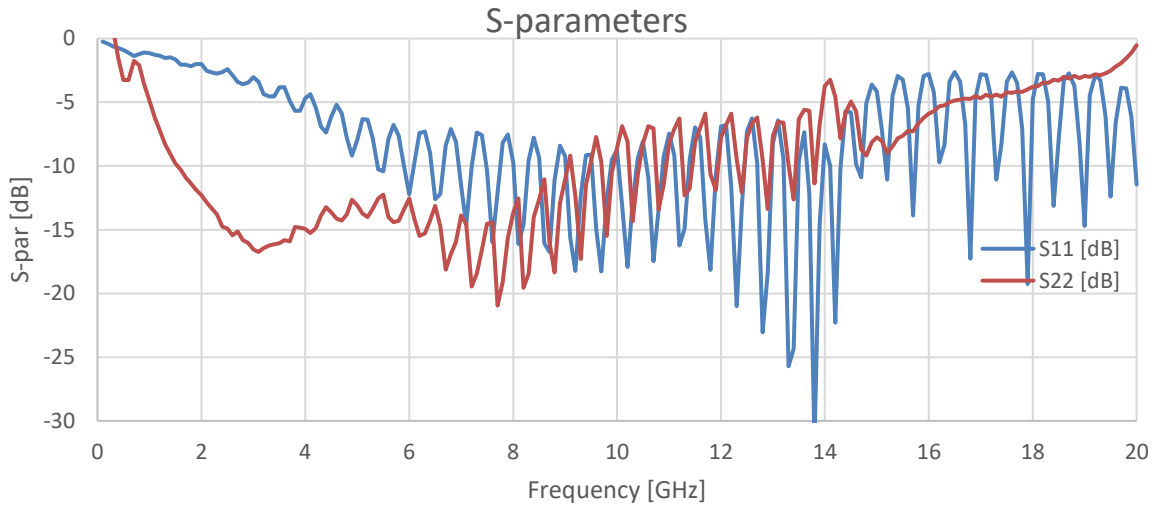
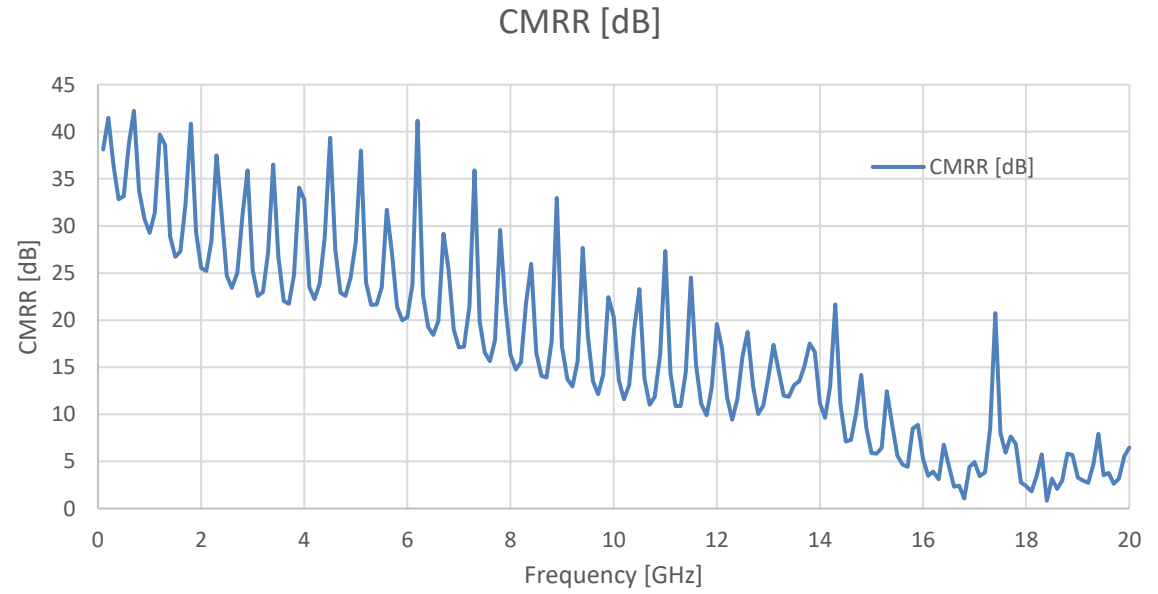
**Measured data, Tamb=296 K**



**Nano-D panel connector seen from outside the LNA**