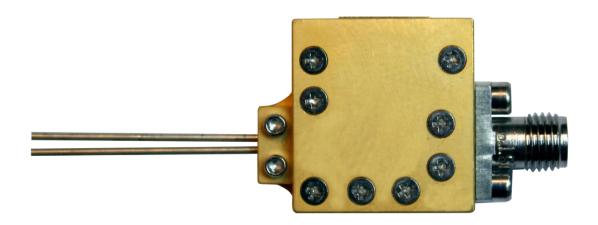


LNF-ABLNC1_15A s/n 0062A 1-15 GHz Cryogenic Low Noise Amplifier

Feb 27, 2015



Absolute maximum ratings

| Parameter | Min | Max |
|----------------------------|--------|--------|
| V_{ds} | -0.5 V | 3 V |
| $\mathbf{I}_{\mathbf{ds}}$ | | 150 mA |
| $ m V_{gs}$ | -12 V | +12 V |
| $\mathbf{V}_{\mathbf{m}}$ | -2.0 V | +0.5 V |
| $I_{ m m}$ | -80 mA | |
| RF Input drive level | | 0 dBm |

Nominal bias @ 296 K

| Parameter | Value | |
|----------------------------|---------|--|
| V_{ds} | 2.60 V | |
| $\mathbf{I}_{\mathbf{ds}}$ | 90 mA | |
| $ m V_{gs}$ | -0.98 V | |
| $\mathbf{V}_{\mathbf{m}}$ | -1.70 V | |
| I _m | -57 mA | |

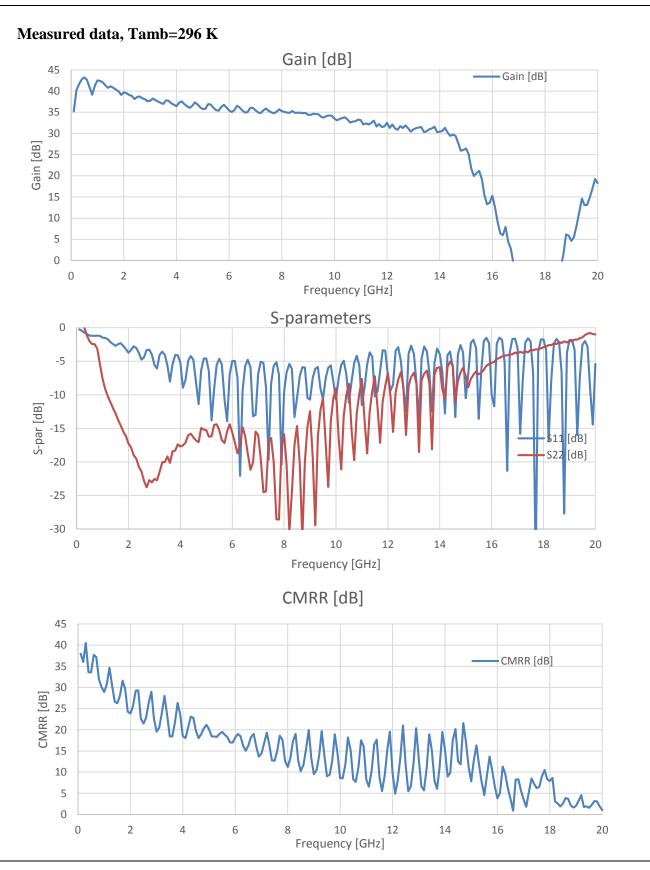
Nominal bias @ 65 K

| Parameter | Value |
|----------------------------|------------------|
| $\mathbf{V}_{\mathbf{ds}}$ | 1.20 V |
| $\mathbf{I}_{	ext{ds}}$ | 25 mA |
| $ m V_{gs}$ | |
| $\mathbf{V}_{\mathbf{m}}$ | -0.50 V |
| $\mathbf{I_m}$ | \approx -17 mA |

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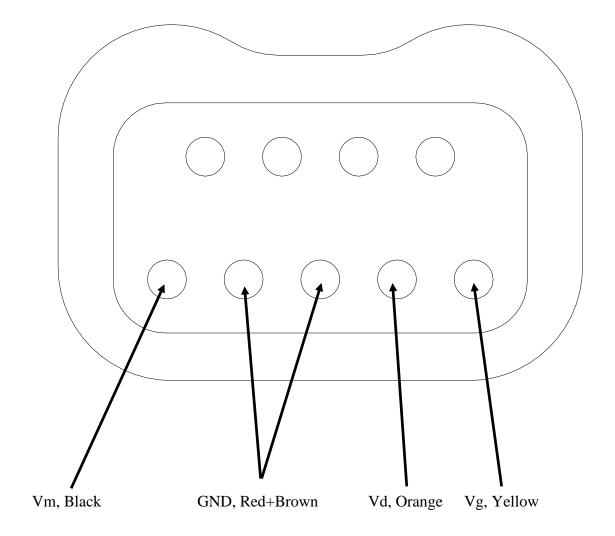


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Nano-D panel connector seen from outside the LNA



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