**Project “SETI”**

**Device: ALN202MA011\_LNF (“LNF\_ABLN0511B”) Run: IAF752a**

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**Bias conditions:**

**VD V- ID VGS Comments**

***V V mA V* Bias 1 2.1 -1.5 112 *var.* Pretests: Niklas (email: 23.11.12)**

**Bias 2 2.0 -1.45 120 *var.* All measurements at IAF**

**Bias 3 2.4 -1.65 112 *var.* Noise-tests: Niklas (email: 10.07.13)**

**Bias 4 1.8 -1.2 *var.* 0 All measurements old run, year 2007**

**Bias 3 is too high, because we calculated an VDS of more than 1.3 V**

**Bias 1 and 2 produce a VDS under 1 V; GOOD**

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**S21 differential (typical device):**

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Frequency [GHz]

**S21 single ended (typical device):**

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Frequency [GHz]

**S-parameter, typical mapping (Bias 2):**

0 5 10 15 20 25

X-Achse

f /

30

Y-Achse

S11 / dB S12 / dB ] Bd[r etemarap-S20100S21 / dB S22 / dB

Reticles on a 4‘‘-wafer: 37Good devices: 27-10Yield: 73 % -20

Frequency ALN202MA011\_LNF\_S01\_w30

[GHz]

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