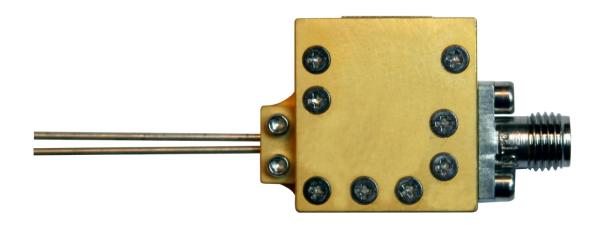


# LNF-ABLNC1\_15A s/n0098A

1-15 GHz Cryogenic Low Noise Amplifier

Rev: March 2021



### **Absolute maximum ratings**

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

#### Nominal bias @ 296 K

Parameter	Value
$\mathbf{V}_{\mathbf{ds}}$	1.70 V
$\mathbf{I}_{ ext{ds}}$	90 mA
$ m V_{gs}$	-0.55 V
$\mathbf{V}_{\mathbf{m}}$	-1.20 V
I <sub>m</sub>	-58 mA

#### Nominal bias @ 65 K

Parameter	Value
$\mathbf{V}_{\mathbf{ds}}$	1.40 V
$\mathbf{I}_{ ext{ds}}$	60 mA
$ m V_{gs}$	
$\mathbf{V}_{\mathbf{m}}$	-0.75 V
$\mathbf{I_m}$	$\approx$ -38 mA

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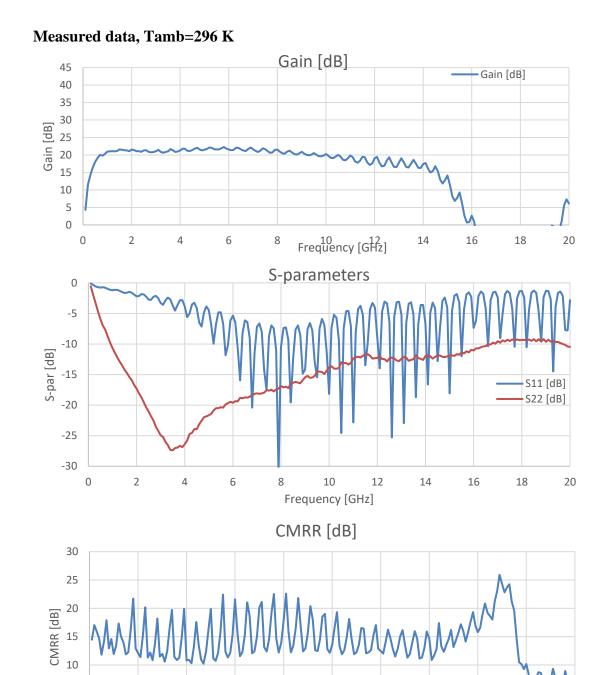
CMRR [dB]

16

18

20

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8 10 12 Frequency [GHz]

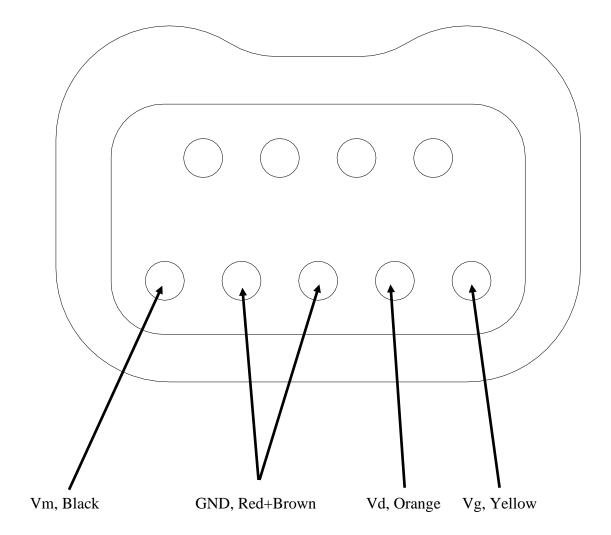


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#### Nano-D panel connector seen from outside the LNA



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