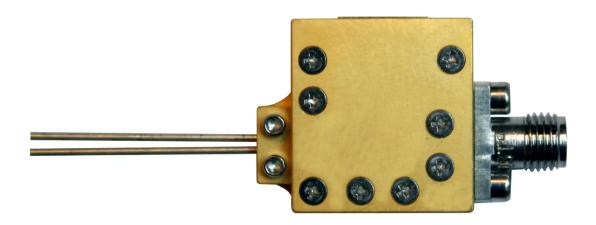


# LNF-ABLNC1\_15A s/n 0055A 1-15 GHz Cryogenic Low Noise Amplifier

Feb 27, 2015



### **Absolute maximum ratings**

Parameter	Min	Max
$\mathbf{V}_{\mathbf{d}s}$	-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
$\mathbf{I}_{\mathbf{m}}$	-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}$	-0.68 V	
$\mathbf{V}_{\mathbf{m}}$	-1.70 V	
I <sub>m</sub>	-57 mA	

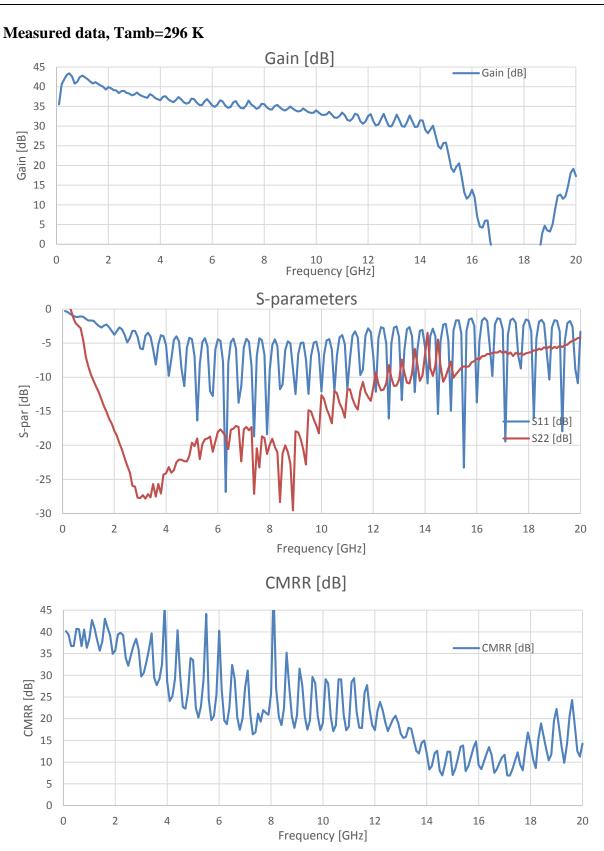
#### Nominal bias @ 65 K

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

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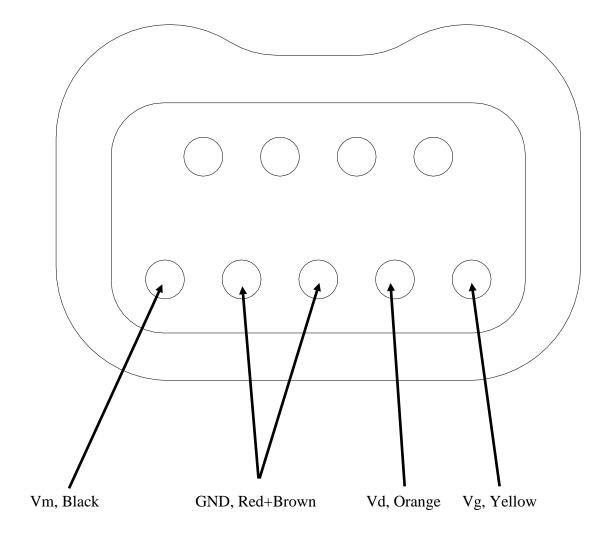


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Nano-D panel connector seen from outside the LNA



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