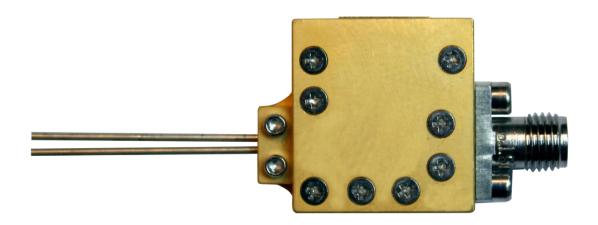


## LNF-ABLNC1\_15A s/n 0002A

### 1-15 GHz Cryogenic Low Noise Amplifier

### **Chalmers**

Oct 31, 2013



#### **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	
$\mathbf{I}_{ ext{ds}}$	90 mA	
$ m V_{gs}$	-0.13 V	
$\mathbf{V}_{\mathbf{m}}$	-1.70 V	
I <sub>m</sub>	-57 mA	

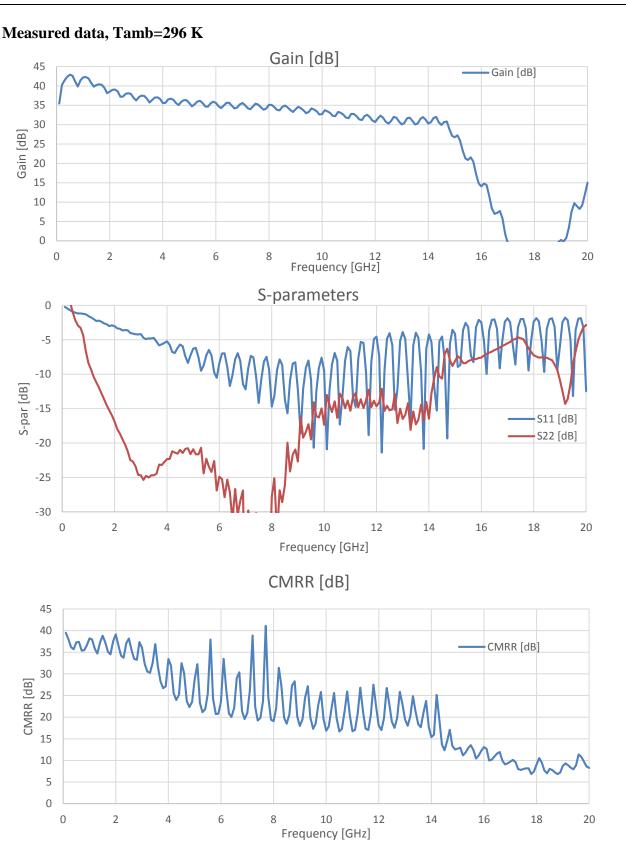
#### Nominal bias @ 65 K

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

Low Noise Factory • www.lownoisefactory.com • info@lownoisefactory.com



# LNF-ABLNC1\_15A s/n 0002A 1-15 GHz Cryogenic Low Noise Amplifier

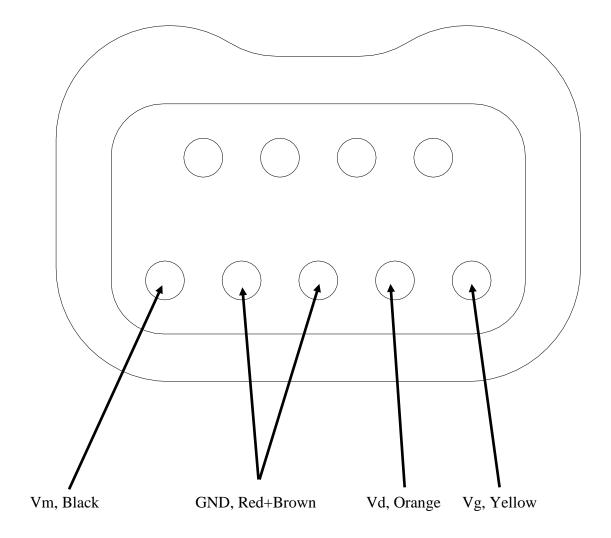


Low Noise Factory • www.lownoisefactory.com • info@lownoisefactory.com



# LNF-ABLNC1\_15A s/n 0002A 1-15 GHz Cryogenic Low Noise Amplifier

Nano-D panel connector seen from outside the LNA



Low Noise Factory • www.lownoisefactory.com • info@lownoisefactory.com