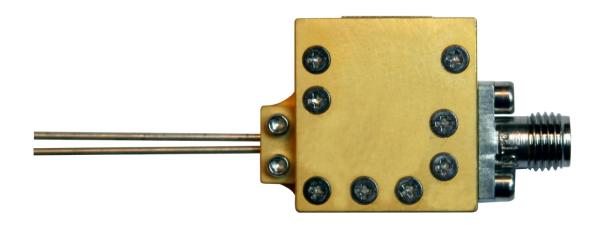


LNF-ABLNC1_15A s/n0027A

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}_{gs}	-12 V	+12 V
$\mathbf{V}_{\mathbf{m}}$	-2.0 V	+0.5 V
I_{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}$	-0.18 V	
$\mathbf{V}_{\mathbf{m}}$	-1.20 V	
$\mathbf{I}_{\mathbf{m}}$	-58 mA	

Nominal bias @ 65 K

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

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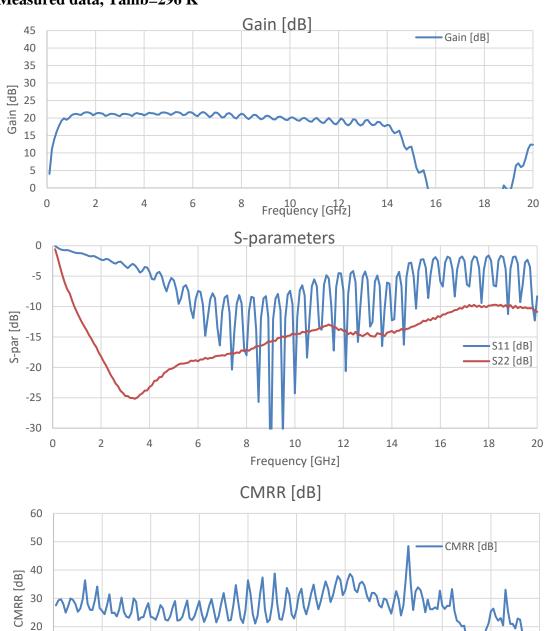
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Measured data, Tamb=296 K



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8 10 GHz] 12 Frequency [GHz]

16

20

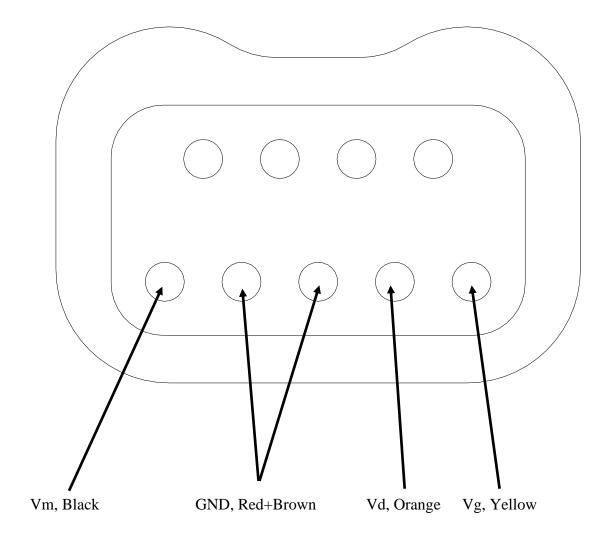


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Nano-D panel connector seen from outside the LNA



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