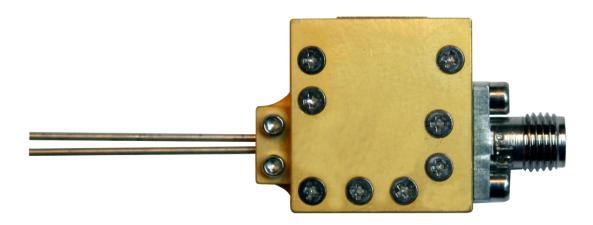


LNF-ABLNC1_15A s/n 0045A 1-15 GHz Cryogenic Low Noise Amplifier

Sep 08, 2015



Absolute maximum ratings

Parameter	Min	Max
V_{ds}	-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	
$\mathbf{I}_{\mathbf{ds}}$	80 mA	
$ m V_{gs}$	-0.11 V	
$\mathbf{V}_{\mathbf{m}}$	-1.70 V	
I _m	-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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Measured data, Tamb=296 K Gain [dB] Gain [dB] 10 12 Frequency [GHz] S-parameters -5 -10 S-par [dB] -15 S22 [dB] -20 -25 -30 Frequency [GHz] CMRR [dB] CMRR [dB] CMRR [dB]

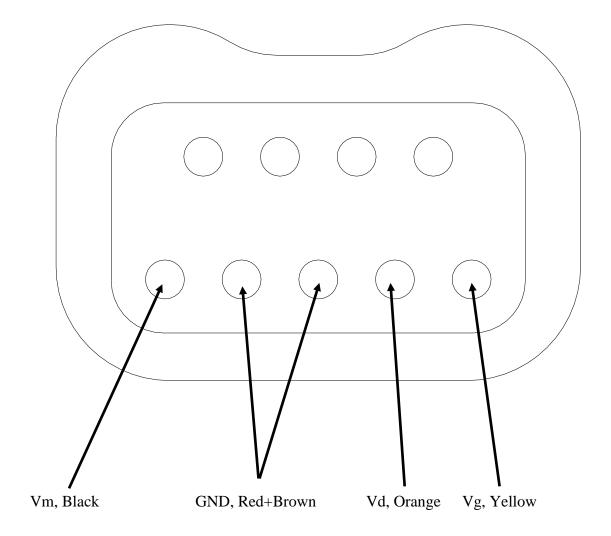
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Frequency [GHz]



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Nano-D panel connector seen from outside the LNA



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