## $\underline{LNA\ specifications \mathbb{C}}_{\underline{March\ 2021}}$

## **Maximum ratings:**

Parameter	Maximum rating	Units
Supply voltage	5.5	Volts
Supply current	100	mA
RF input power	25	dBm
Dissipated power	350	mW
Operating	-40 to 85	Deg C
temperature		
range		
Storage	-65 to 160	Deg C
temperature		
MSL	1	

## **Operating parameters:**

Parameter	Conditions	Min	Тур	Max	Units
Supply	DC operating voltage	3.0		5.0	Volts
voltage					
Supply	VCC=5.0V, TA=25		46		mA
current	Deg C				
	VCC = 3.0V, TA=25		25		mA
	Deg C				
Noise	VCC=5.0V, TA=25				dB
Figure	Deg C, 50 Ohm I/O				
	impedance,				
	100 Mhz,		0.65		
	900 Mhz,		0.74		
	2.5 Ghz		0.96		

			1	
	VCC=3.0V, TA=25			
	Deg C, 50 Ohm I/O			
	impedance			
	100 Mhz,	0.6		
	900 Mhz,	0.73		
	2.5 Ghz	0.93		
Small signal	VCC=5.0V,			dB
gain	100 Mhz,	22.0		
	900 Mhz,	18.0		
	2.5 Ghz	10.0		
	TA=25 Deg C			
	VCC=3.3V.			
	100 Mhz,	21.8		
	900 Mhz,	17.0		
	2.5 Ghz,	10.0		
	TA=25 Deg C			
Input return	VCC=5.0V,			dB
loss	100 Mhz,	12.0		
	900 Mhz,	14.8		
	2.5 Ghz	15.8		
	TA=25 Deg C			
	NGC 2 2N			
	VCC=3.3V,	10.0		
	100 Mhz,	10.0		
	900 Mhz,	13.7		
	2.5 Ghz	13.8		
Output	TA=25 Deg C			dB
Output return loss	VCC = 5.0V, 100 Mhz,	21.7		uD
10:0111 1088	900 Mhz,	19.7		
	2.5 Ghz,	15.9		
	7.5 GHz, TA=25 Deg C	13.9		
	111 23 Deg C			
	VCC = 3.3V,			
	100 Mhz,	20.0		
	900 Mhz,	27.9		
	2.5 Ghz,	21.9		
	2.3 GHZ,	41.7		

	TA=25 Deg C		
P1dB	VCC=5.0V,		dBm
	100 Mhz,	20.4	GZIII
	900 Mhz	21.8	
	2.5 Ghz,	22.0	
	TA=2.5 Deg C		
	2.3 205		
	VCC=3.3V,		
	100 Mhz,	18.0	
	900 Mhz,	19.0	
	2.5 Ghz,	19.8	
	TA=25 Deg C		
OIP3	VCC=5.0V,		dBm
	100 Mhz,	29.7	
	900 Mhz,	31.6	
	2.5 Ghz	35.2	
	TA=25 Deg C.		
	VCC=3.3V,		
	100 Mhz,	28.0	
	900 Mhz,	18.8	
	2.5 Ghz	20.0	
	TA=25 Deg C		
Input return	VCC=5.0V,		dB
loss	100 Mhz,	13.0	
	900 Mhz,	14.8	
	2.5 Ghz	15.2	
	TA=25 Deg C.		
	VCC-2 2V		
	VCC=3.3V, 100 Mhz,	9.8	
	900 Mhz,	13.7	
	2.5 Ghz,	14.0	
	7.3 GHz, TA=25 Deg C	14.0	
Output	VCC=5.0,		dB
return loss	100 Mhz,	21.0	uD
100111 1088	900 Mhz,	19.0	
	2.5 Ghz	15.4	
		13.4	
	TA=25 Deg C		

	VCC=3.3V, 100 Mhz, 900 Mhz, 2.5 Ghz TA=25 Deg C	20.0, 27.4 21.7	
MSL		1	
Length		41.16	mm
Width		20.66	
Height		10.00	
Weight		< 1	oz
RF		SMA	
connectors		right	
		angle	
		launch,	
		female	

Image: Top view.

