

# LNA specifications©

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## 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 temperature range	-40 to 85	Deg C
Storage temperature	-65 to 160	Deg C
MSL	1	

## Operating parameters:

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

	VCC=3.0V, TA=25 Deg C, 50 Ohm I/O impedance				
	100 Mhz, 900 Mhz, 2.5 Ghz		0.6 0.73 0.93		
Small signal gain	VCC=5.0V, 100 Mhz, 900 Mhz, 2.5 Ghz TA=25 Deg C		22.0 18.0 10.0		dB
	VCC=3.3V. 100 Mhz, 900 Mhz, 2.5 Ghz, TA=25 Deg C		21.8 17.0 10.0		
Input return loss	VCC=5.0V, 100 Mhz, 900 Mhz, 2.5 Ghz TA=25 Deg C		12.0 14.8 15.8		dB
	VCC=3.3V, 100 Mhz, 900 Mhz, 2.5 Ghz TA=25 Deg C		10.0 13.7 13.8		
Output return loss	VCC = 5.0V, 100 Mhz, 900 Mhz, 2.5 Ghz, TA=25 Deg C		21.7 19.7 15.9		dB
	VCC = 3.3V, 100 Mhz, 900 Mhz, 2.5 Ghz,		20.0 27.9 21.9		

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

	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 connectors			SMA right angle launch, female		

Image: Top view.

