

# LNA-013-28-10

## Low Noise Amplifier

0.1-3GHz, NF:1.0dB, Gain:28dB,P1dB:17dB

sales@lauftek.ru | lauftek.ru



### Feature:

- Ultra Wide Band: 0.1-3GHz
- Gain: 28B Min
- Noise Figure: 1.0dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

### Electrical:

Parameter	Min.	Typ.	Max.	单位Units
Frequency range	0.1-3			GHz
Gain	28	29		dB
Noise Figure		0.8	1	dB
P1dB	14	17		dBm
PSat		18		dBm
Input Power		5		dBm
Input VSWR		1.4		:1
Output VSWR		1.8		:1
DC Voltage	+8	+12	+15	V DC
DC Supply Current		70		mA
Impedance	50			Ohms

### Mechanical :

Parameter	Value	Units
Input /Output Connector	SMA Female	
Bias	Solder Pin	
Size	20*28*10	mm
Weight	/	g



### Absolute Maximum Ratings:

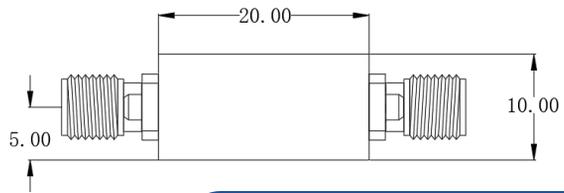
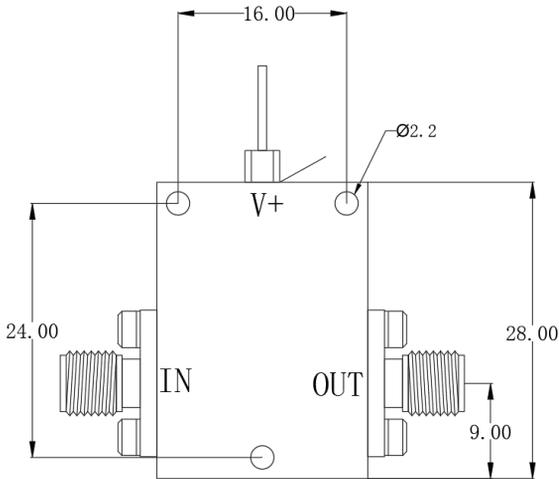
Parameter	Value
Supply Bias Voltage	+15V
RF INPUT POWER	+15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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# LAUFTEX

## Outline Drawing:

Unit: mm

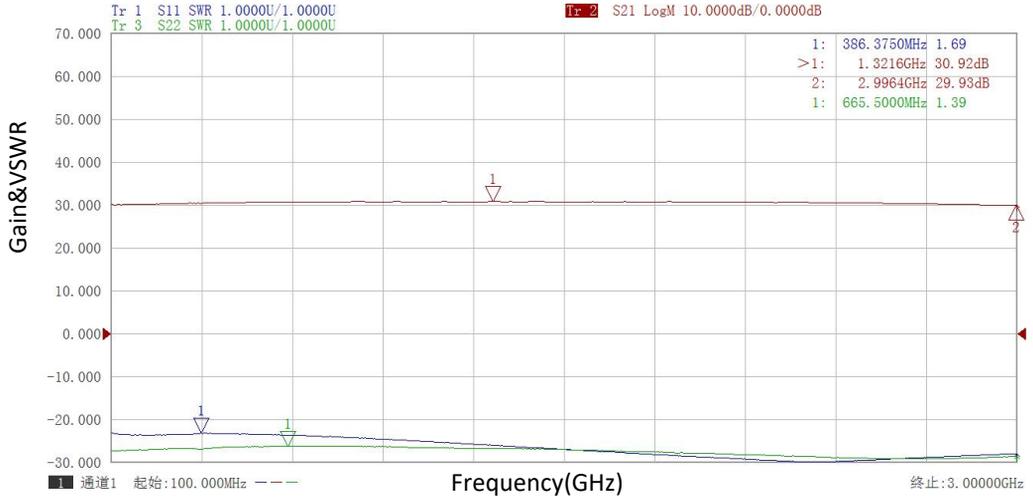


## Environmental Conditions:

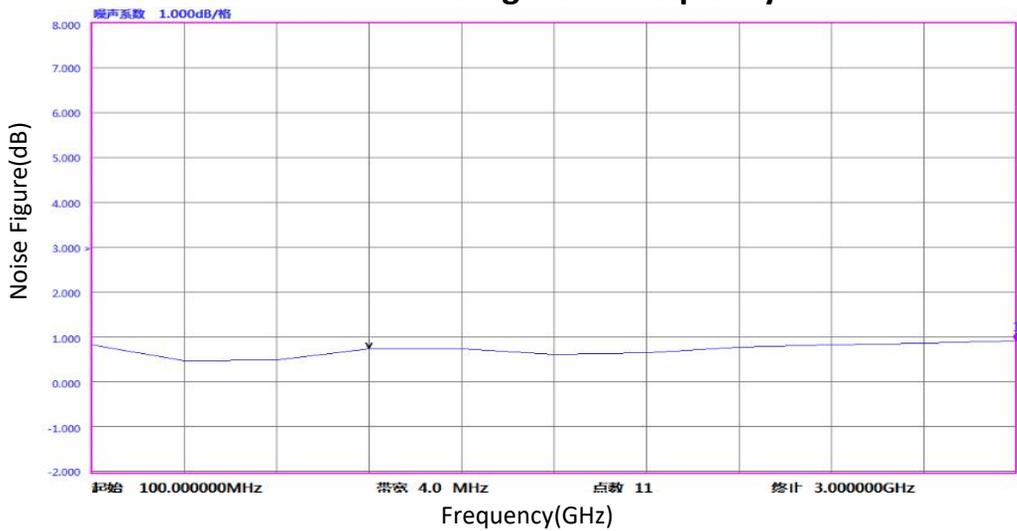
Parameter	Min.	Typ.	Max.	单位Units
Operating Temperature	-40		+60	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Typical Performance Data:

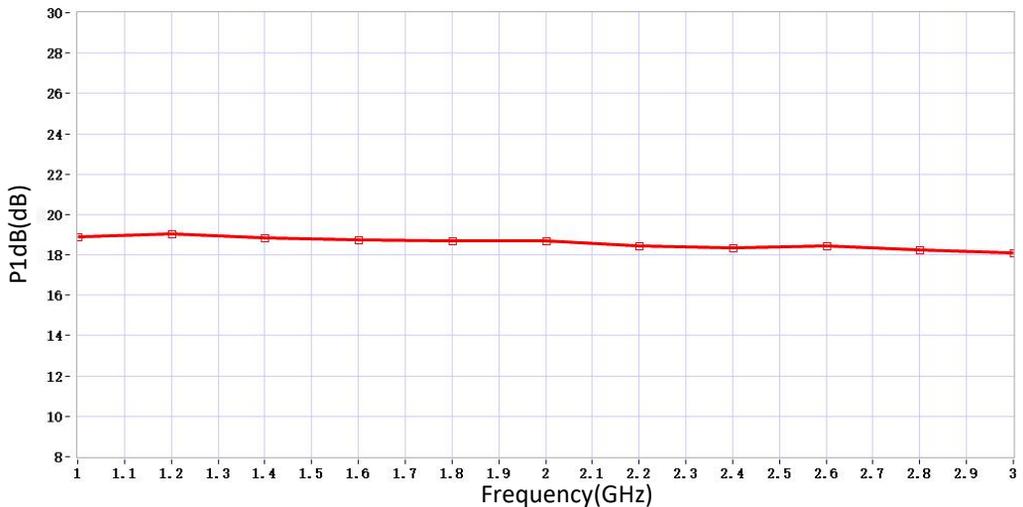
Gain&VSWR vs Frequency



Noise Figure vs Frequency

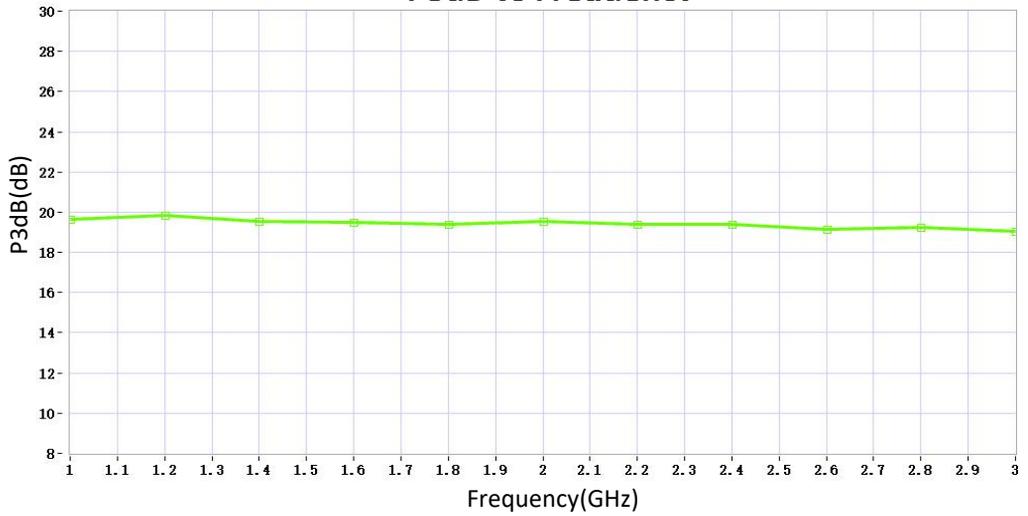


P1dB vs Frequency

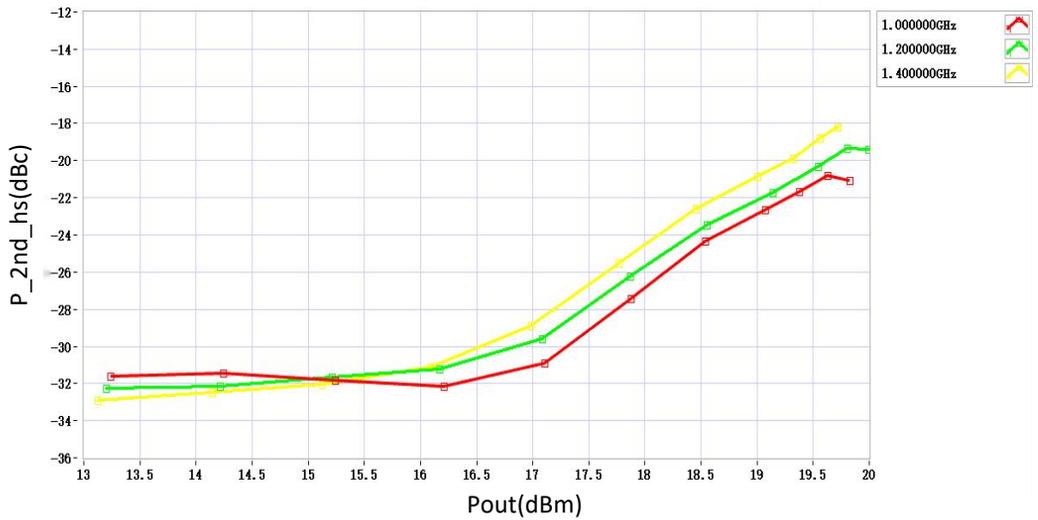


Typical Performance Data:

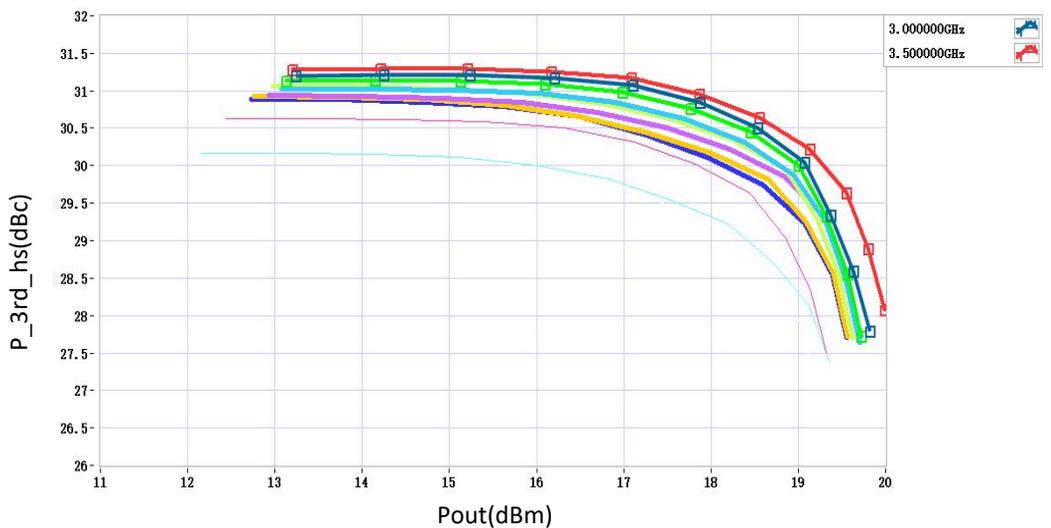
P3dB vs Frequency



2nd Harmonic(dBc) vs. Output Power vs Frequency



3rd Harmonic(dBc) vs. Output Power vs Frequency



## Typical Performance Data:

### Gain vs Output Power

