

## LNA Series

## 10 – 1300MHz Low Noise Amplifier

### Features

- Frequency Range: 10 - 1300MHz
- Gain: 33dB
- P<sub>1dB</sub>: +20dBm
- IP3: +34dBm
- Noise Figure: 1.5dB
- DC Power: 12V/165mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

### Picture



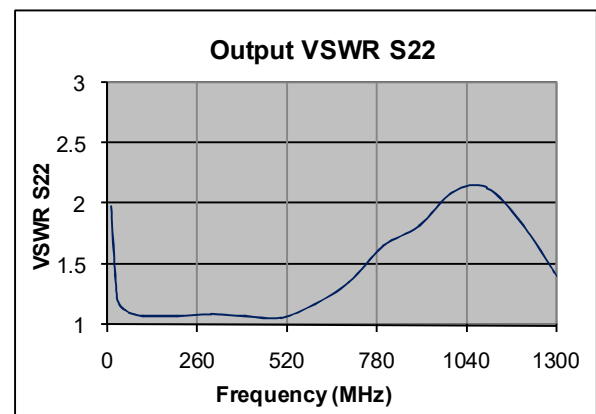
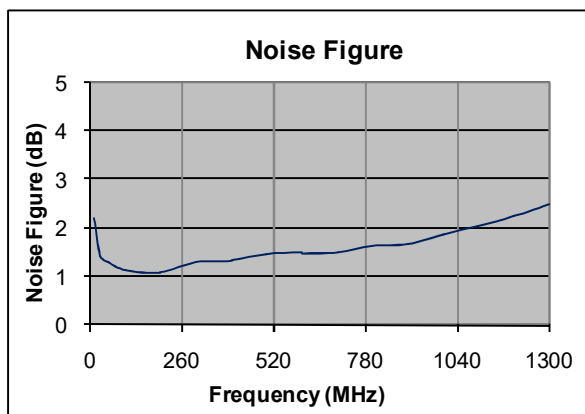
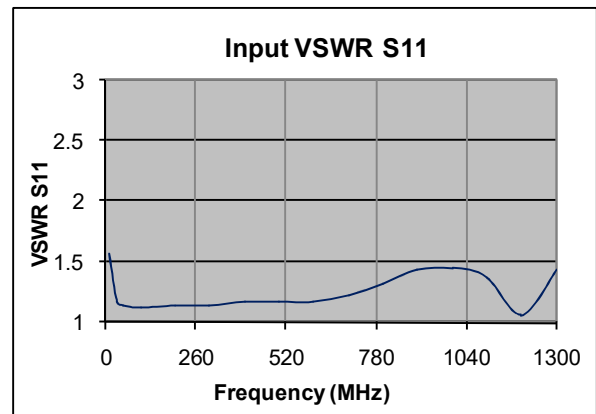
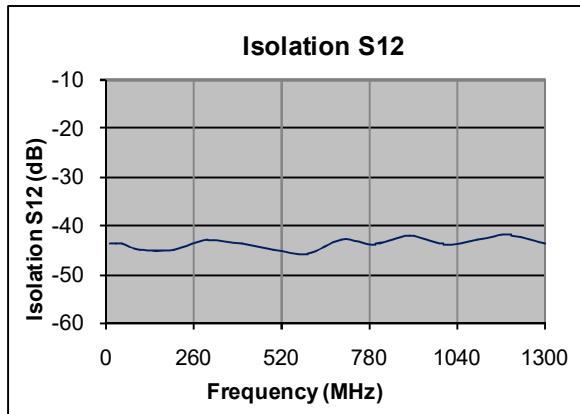
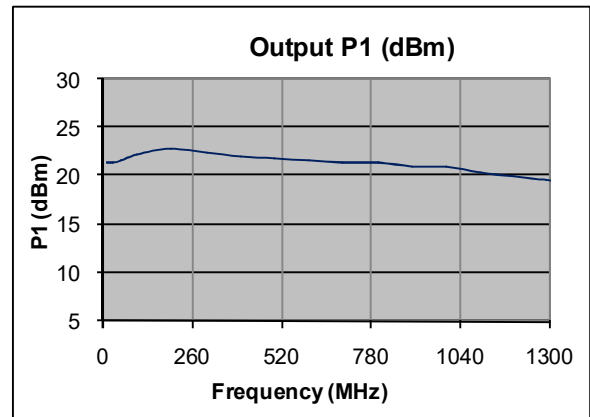
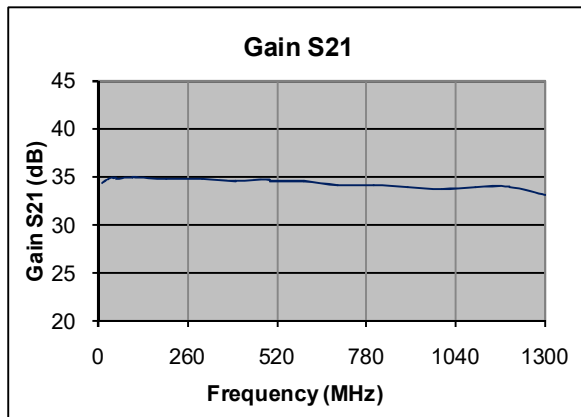
### Description

LNA-1330 is a flat response Low Noise Amplifier operates in frequency range from 10MHz to 1300MHz.

### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>supply</sub> = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		1300
Gain S <sub>21</sub> f = 10MHz	dB		34.4	
f = 250MHz	dB		34.7	
f = 500MHz	dB		34.6	
f = 1000MHz	dB		34.1	
f = 1300MHz	dB		33.0	
Gain Flatness	dB		± 1.0	
P <sub>1dB</sub>	dBm		+20	
IP3	dBm		+34	
Noise Figure	dB		1.5	
Reverse Isolation S <sub>12</sub>	dB		-40	
VSWR Input VSWR S <sub>11</sub>			1.3:1	
Output VSWR S <sub>22</sub>			1.3:1	
DC Power Supply	V		12	15
Supply Current	mA		165	

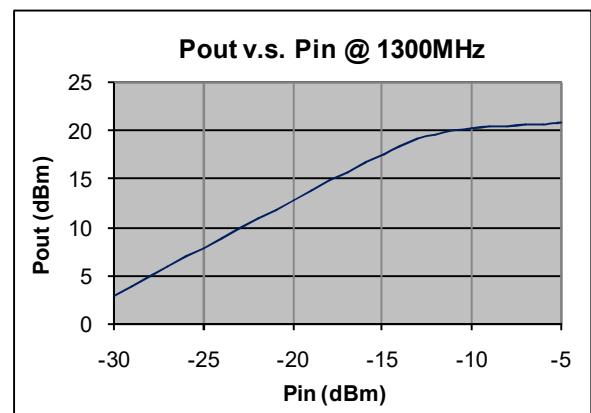
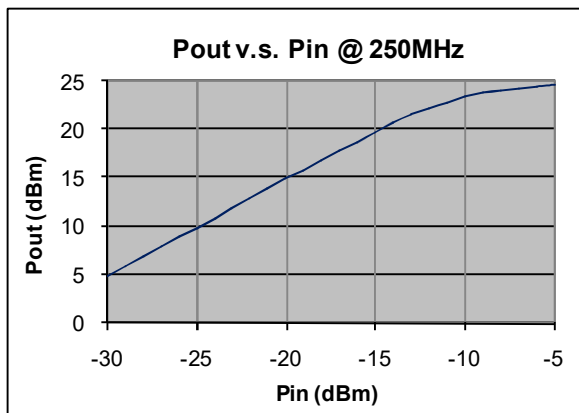
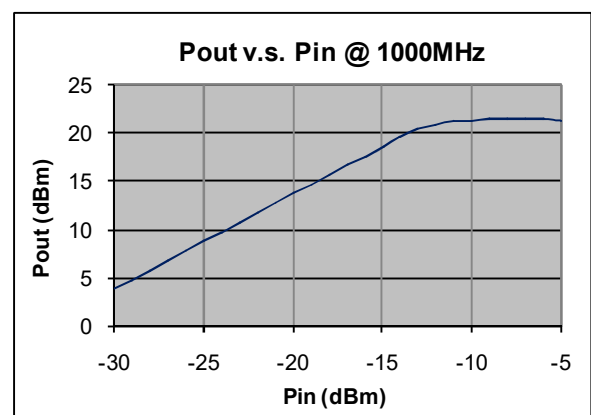
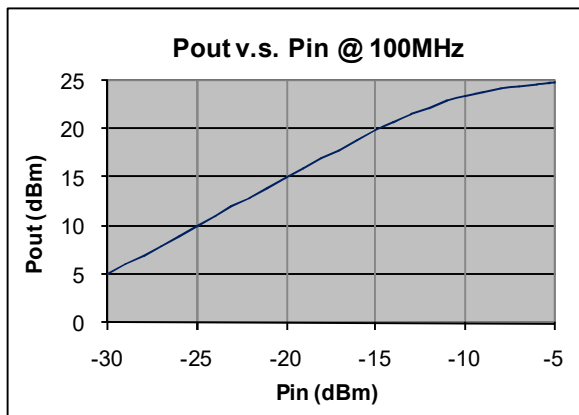
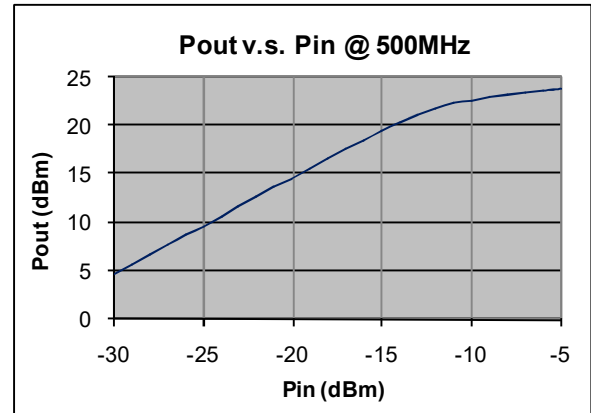
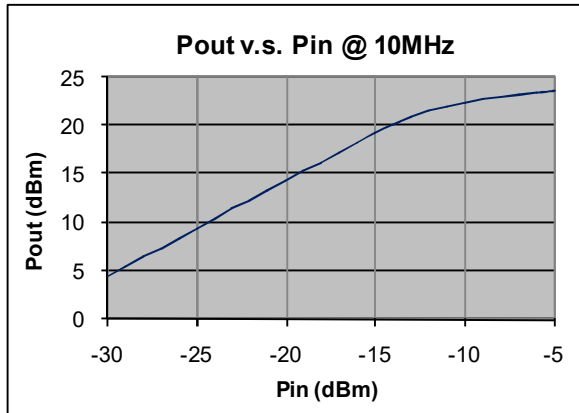
**Typical Performance @ +25 °C**



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**Typical Performance @ +25 °C**



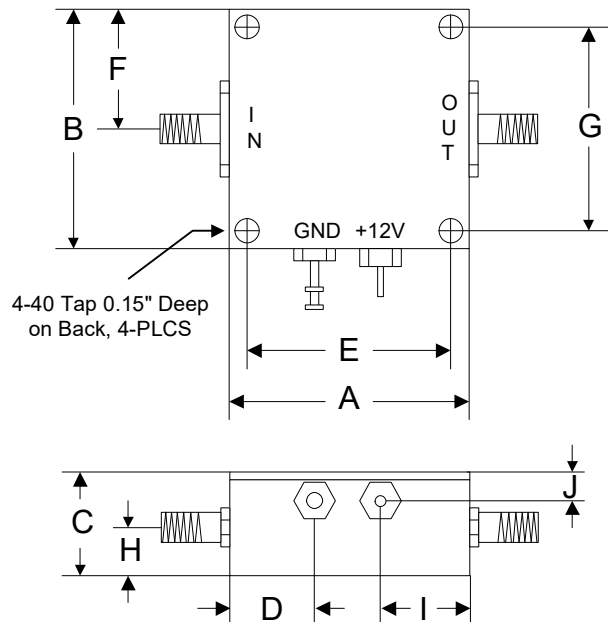
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+25V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

### Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76