

LNA Series

20 – 1000MHz Low Noise Amplifier

Features

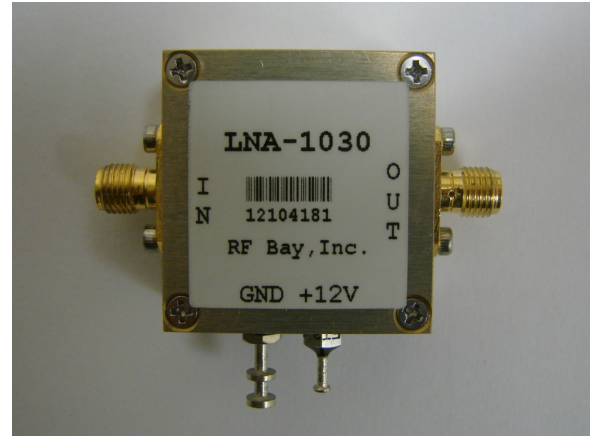
- Frequency Range: 20 - 1000MHz
- Gain: 30dB
- P_{1dB}: +17dBm
- IP3: +31dBm
- Noise Figure: 1.3dB
- DC Power: 12V/140mA
- SMA Connector

Performance measured @ 500MHz

Description

LNA-1030 is a 1.3dB Noise Figure Low Noise 30dB Gain Amplifier operates with frequency range from 20 to 1000MHz.

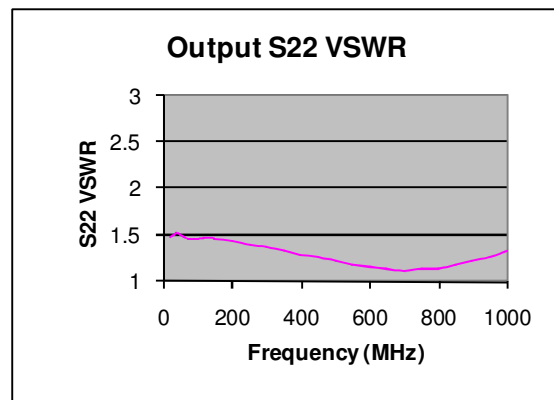
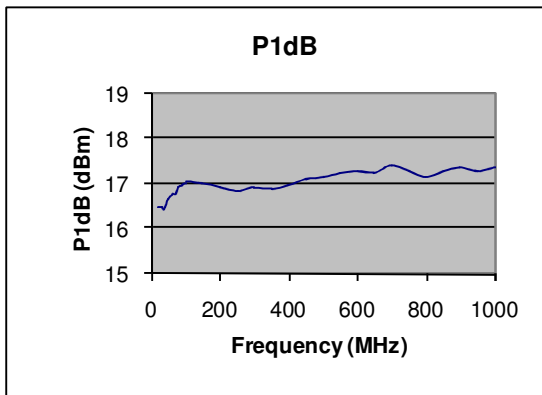
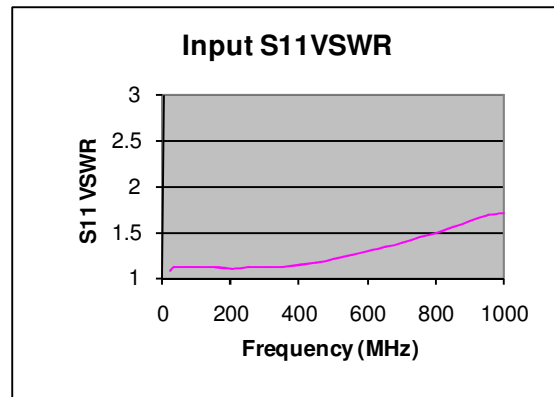
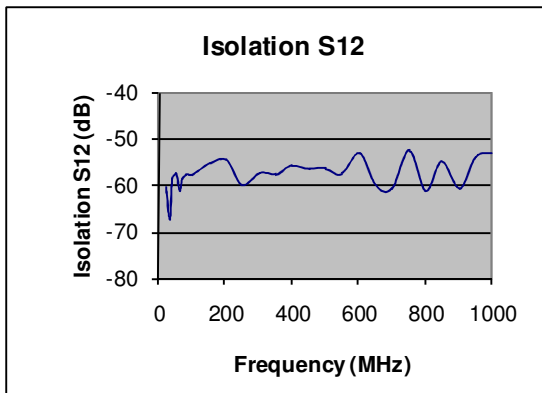
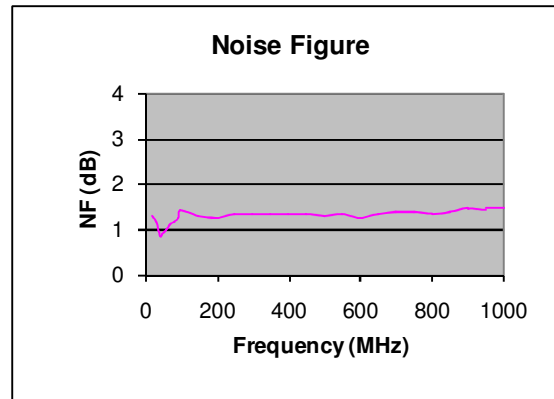
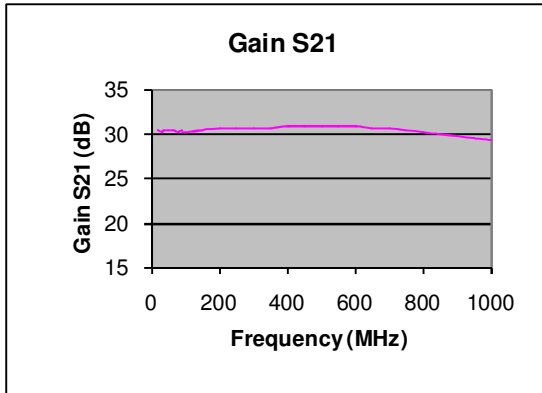
Picture



Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	20		1000
Gain f = 20MHz	dB		30	
f = 500MHz	dB		30	
f = 1000MHz	dB		29	
Gain Flatness	dB		± 0.5	
P _{1dB}	dBm		+17	
IP3	dBm		+31	
Noise Figure	dB		1.3	
Reverse Isolation	dB		-57	
VSWR Input VSWR			1.2:1	
Output VSWR			1.2:1	
DC Power Supply	V	10	12	18
Supply Current	mA		140	

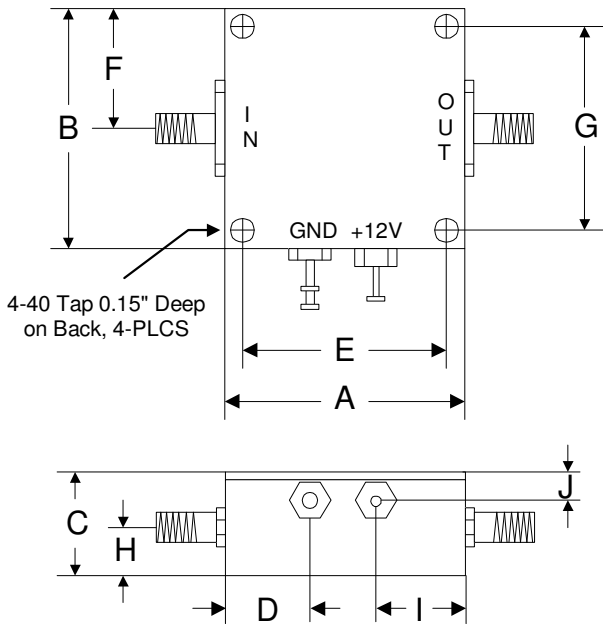
Typical Performance @ +25 °C



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