

LNA Series

2000 – 2400MHz Low Noise Amplifier

Features

- Frequency Range: 2000-2400MHz
- Gain: 17dB
- P_{1dB}: +13dBm
- IP3: +25dBm
- Noise Figure: 1.4dB
- DC Power: 6 - 24V
- SMA Connector

Performance measured @ 2200MHz

Description

LNA-2024 is a wideband Low Noise Amplifier operates with frequency range useable from 2000 to 2400MHz.

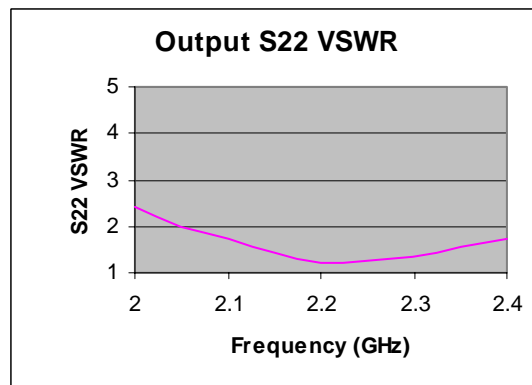
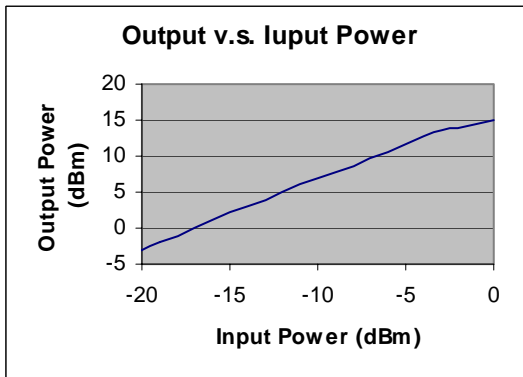
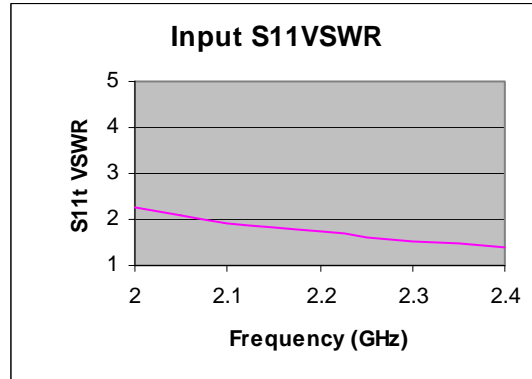
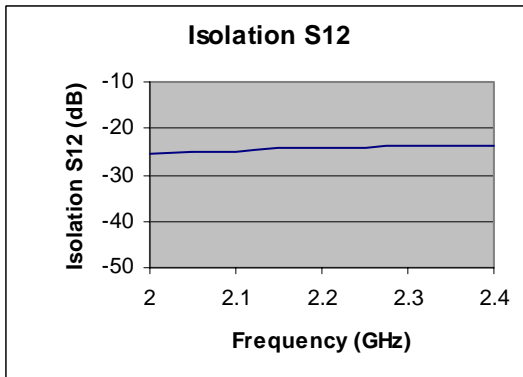
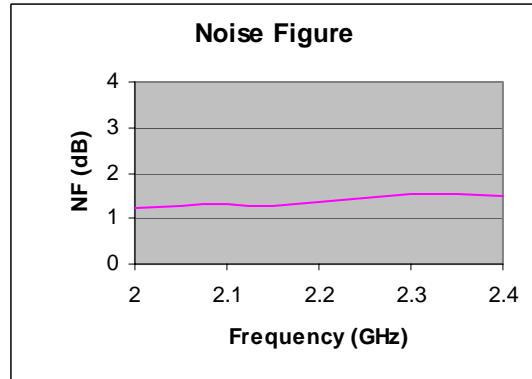
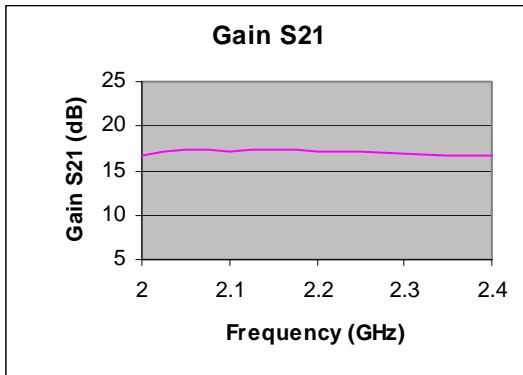
Picture



Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2000		2400
Gain f = 2000MHz	dB		17	
f = 2200MHz	dB	15	17	
f = 2400MHz	dB		16	
P _{1dB} f = 2200MHz	dBm		+13	
IP3 f= 2200MHz	dBm		+25	
Noise Figure	dB		1.4	1.6
Reverse Isolation	dB		-25	
VSWR f = 2200MHz				
Input VSWR			1.7:1	
Output VSWR			1.4:1	
DC Power Supply	V	6	12	24
Supply Current	mA		25	

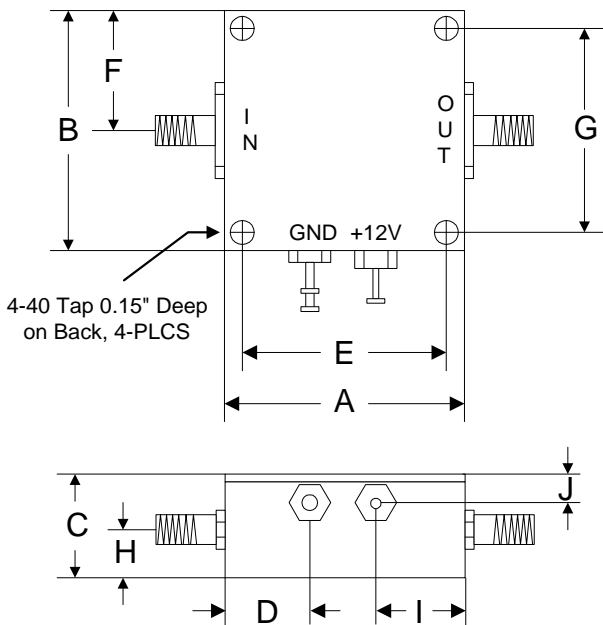
Typical Performance @ +25 °C



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