

LNA Series

0.1 – 2500MHz Low Noise Amplifier

Features

- Frequency Range: 0.1-2500MHz
- Gain: 25dB
- P_{1dB}: +1dBm
- IP3: +8dBm
- Noise Figure: 2.4dB
- DC Power: 12V
- SMA Connector

Picture



Performance measured @ 1000MHz

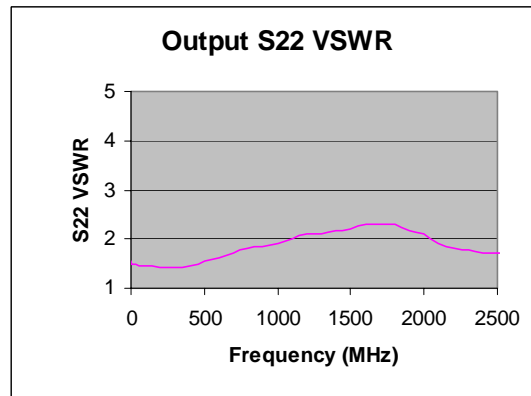
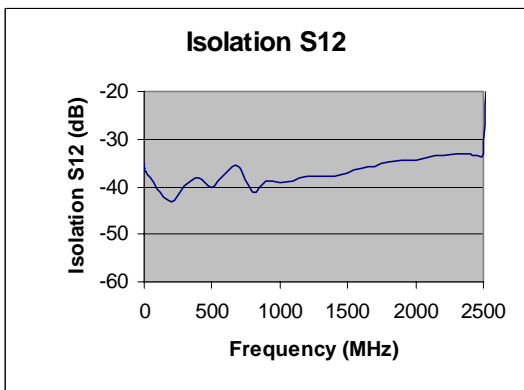
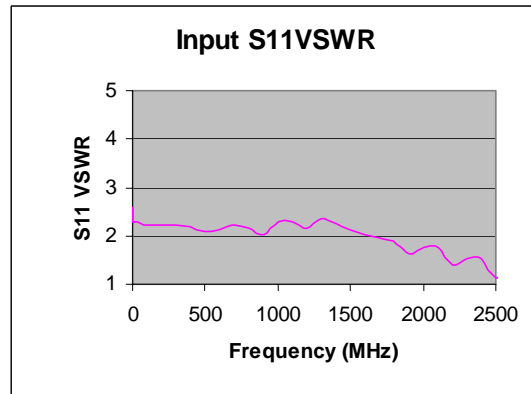
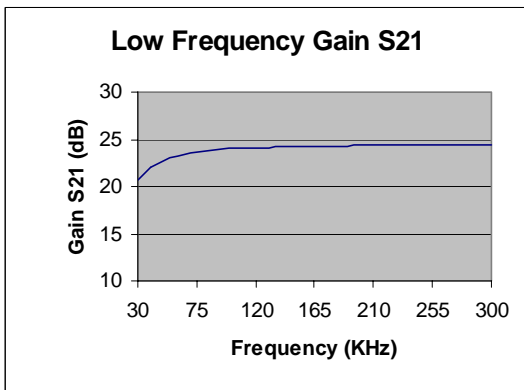
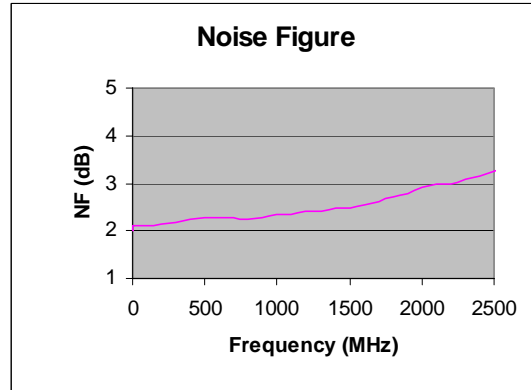
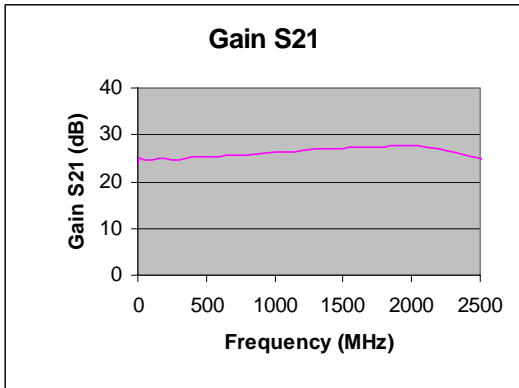
Description

LNA-2500 is a wideband Low Noise Amplifier operates with frequency range usable from 100KHz to 2500MHz.

Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.1		2500
Gain				
f = 100KHz	dB		24	
f = 1000MHz	dB		25	
f = 2500MHz	dB		24.5	
P _{1dB}				
f = 10MHz	dBm		0	
f = 1000MHz	dBm		+1	
f = 2500MHz	dBm		-5	
IP3				
f= 1500MHz	dBm		+8	
Noise Figure				
f = 10MHz	dB		2.0	
f = 1000MHz	dB		2.4	
f = 2500MHz	dB		3.2	
VSWR				
f = 2500MHz				
Input VSWR			1.2:1	
Output VSWR			1.7:1	
DC Power Supply	V	10	12	15
Supply Current	mA		17	

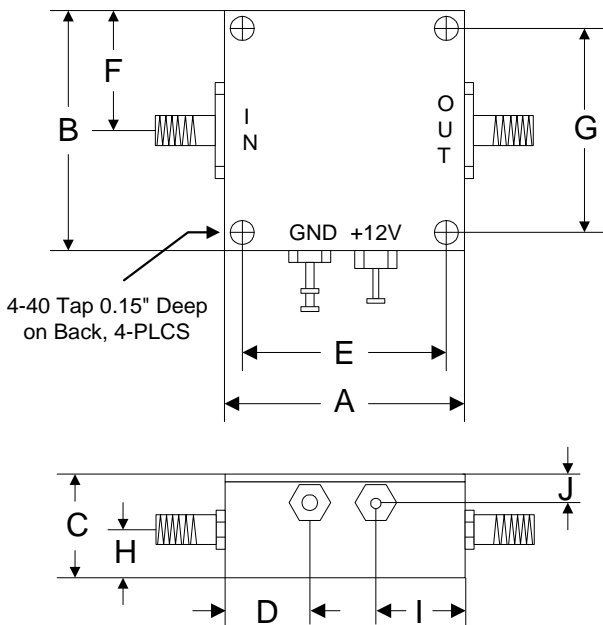
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
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