

LNA Series

100 – 1200MHz Low Noise Amplifier

Features

- Frequency Range: 100-1200MHz
- Gain: 41dB
- P_{1dB}: +19dBm
- IP3: +32dBm
- Noise Figure: 3.5dB
- DC Power: 15V/120mA
- SMA Female – Female
Other gender available

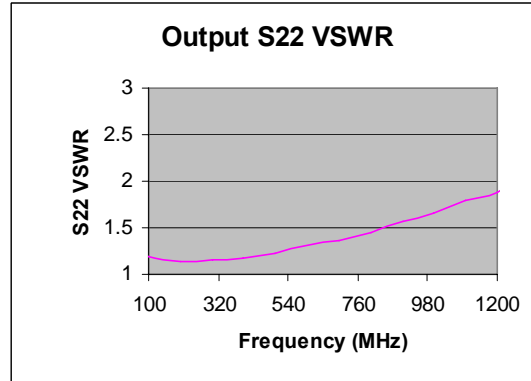
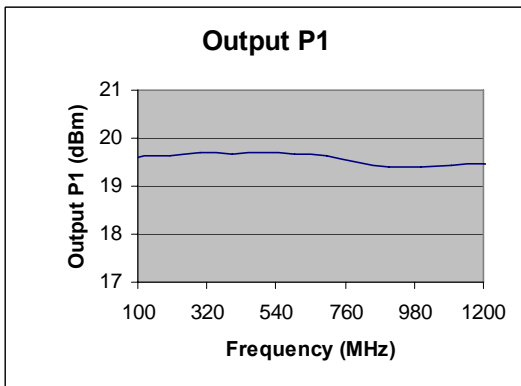
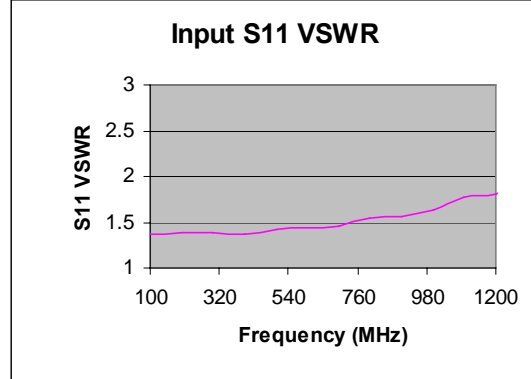
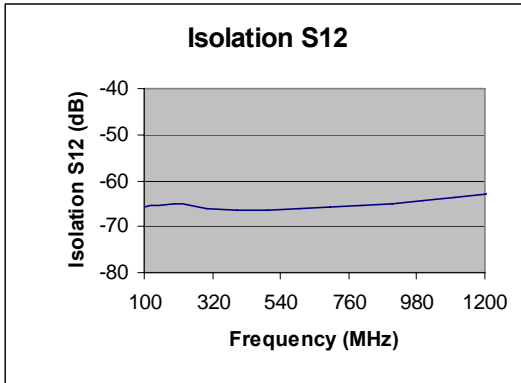
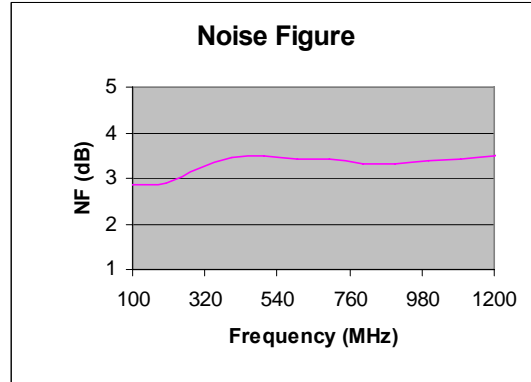
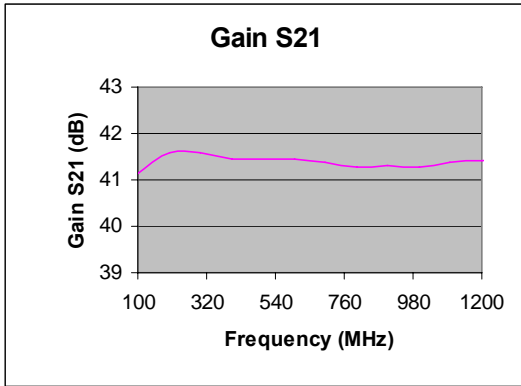
Description

LNA-1240 is a 41dB gain wideband high dynamic range Low Noise Amplifier operates with frequency range from 100MHz to 1200MHz.

Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = +15V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	100		1200
Gain				
f = 100MHz	dB		41	
f = 700MHz	dB		41	
f = 1200MHz	dB		41	
Gain Flatness	dB		± 0.5	± 0.75
P _{1dB}	dBm		+19	
IP3	dBm		+32	
Noise Figure	dB		3.5	
Reverse Isolation	dB		-60	
VSWR				
Input VSWR			1.5:1	2.0:1
Output VSWR			1.5:1	2.0:1
DC Power Supply	V		15	
Supply Current	mA		120	
Size	Inch	1.250" (L) x 1.250" (W) x 0.563" (H)		
Weight	Oz	1.5		

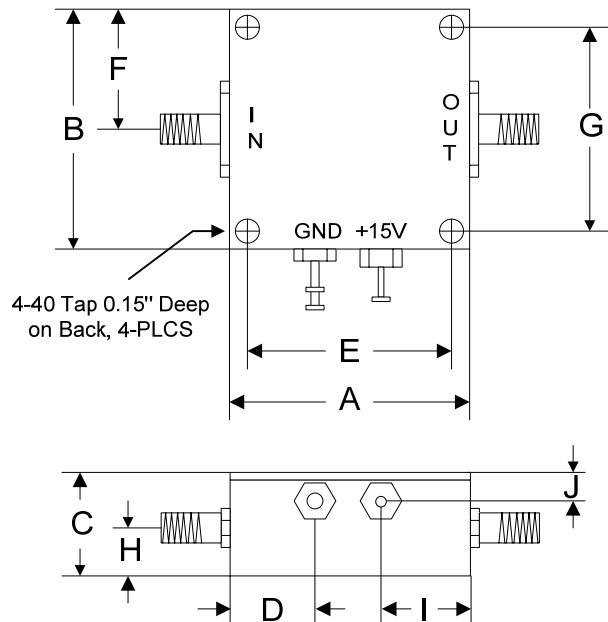
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+17V
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