

LNA Series

20 – 4000MHz Low Noise Amplifier

Features

- Frequency Range: 20 – 4000MHz
- Gain: 25dB
- P_{1dB}: +12dBm
- IP3: +27dBm
- Noise Figure: 2.0B
- DC Power: 12V
- SMA Connector

Performance measured @ 2000MHz

Description

LNA-4020 is a wideband high gain Low Noise Amplifier operates with frequency range for 20MHz to 4000MHz Band.

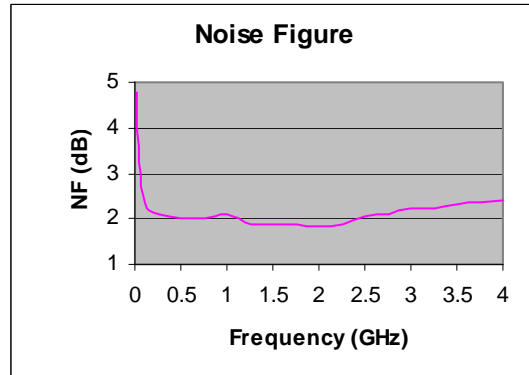
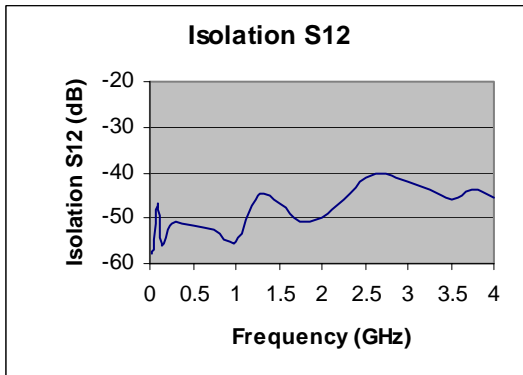
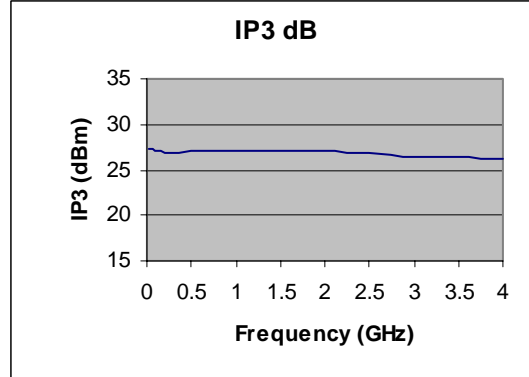
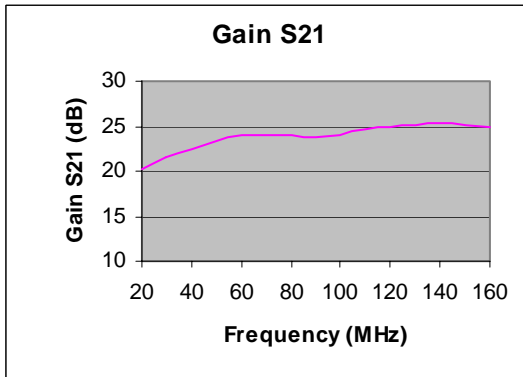
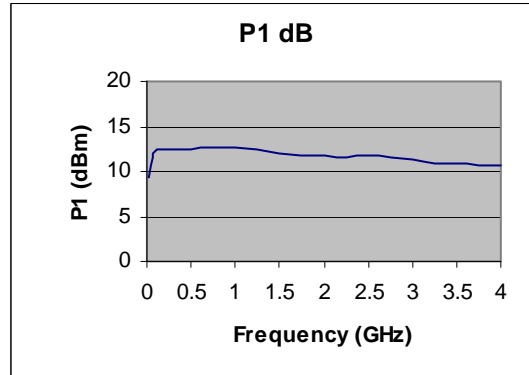
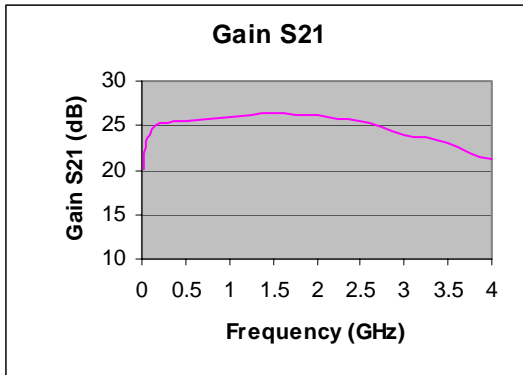
Picture



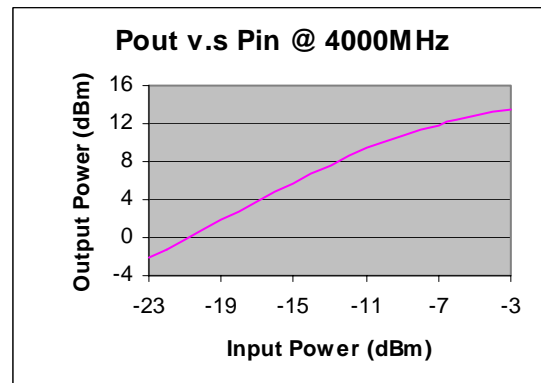
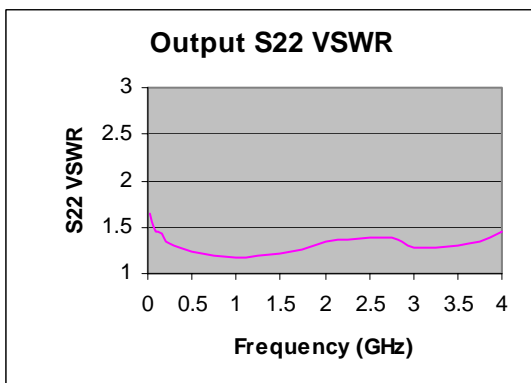
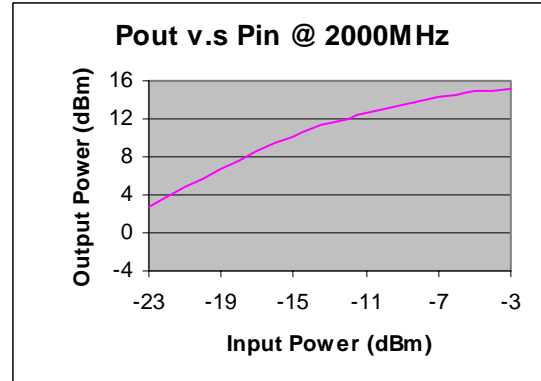
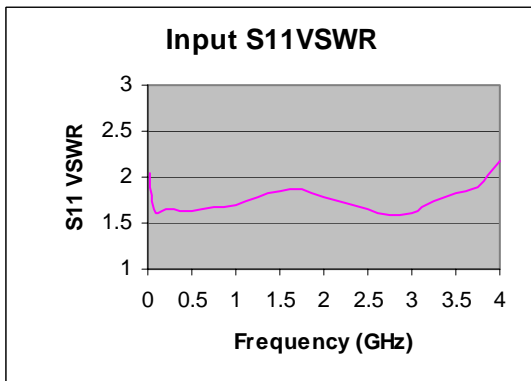
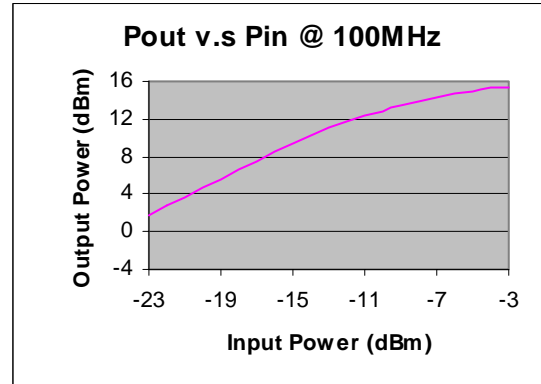
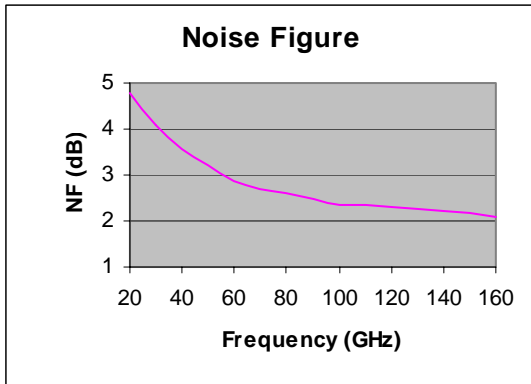
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	20		4000
Gain				
f = 20MHz	dB		20	
f = 500MHz	dB		25	
f = 2000MHz	dB		26	
f = 3000MHz	dB		24	
f = 4000MHz	dB		21	
P _{1dB}	dBm		+12	
IP3	dBm		+27	
Noise Figure	dB		1.9	2.2
Reverse Isolation	dB		-50	
VSWR				
Input VSWR			1.8:1	
Output VSWR			1.4:1	
DC Power Supply	V	8	12	15
Supply Current	mA		135	

Typical Performance @ +25 °C



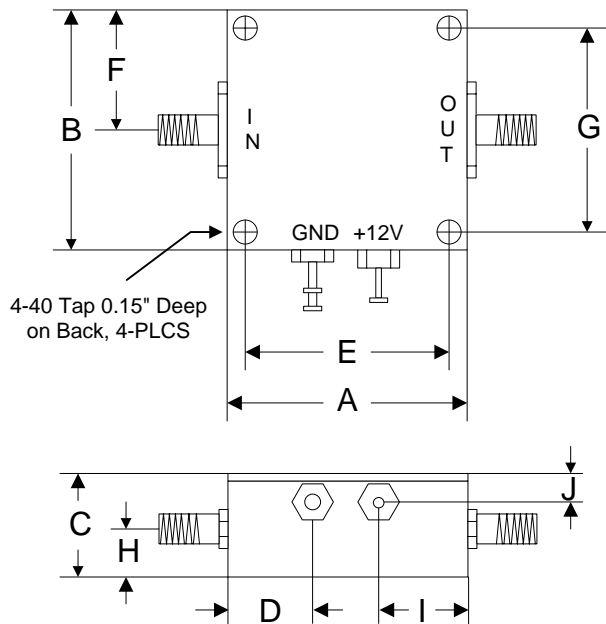
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+20V
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