

LNA Series

2400 – 2500MHz Low Noise Amplifier

Features

- Frequency Range: 2.4-2.5GHz
- Gain: 24dB
- P_{1dB}: +10dBm
- IP3: +20dBm
- Noise Figure: 1.7dB
- DC Power: 12V
- SMA Connector

Performance measured @ 2.45GHz

Description

LNA-2400 is a Low Noise Amplifier operates with frequency range for 2.4GHz ISM Band.

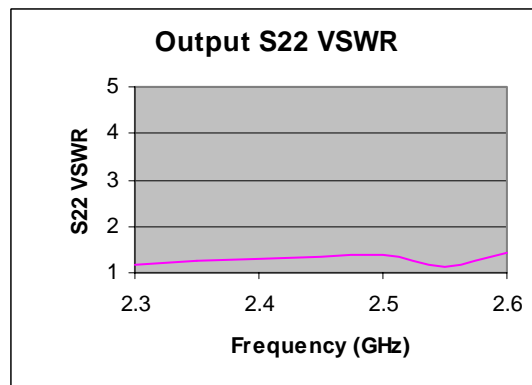
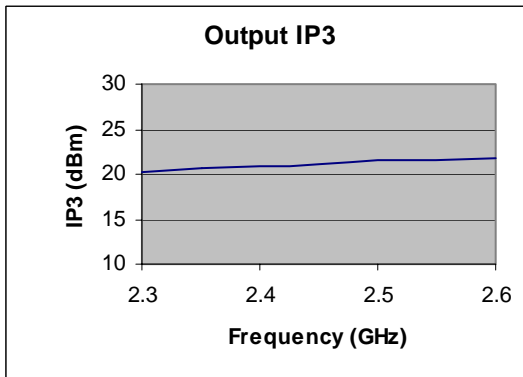
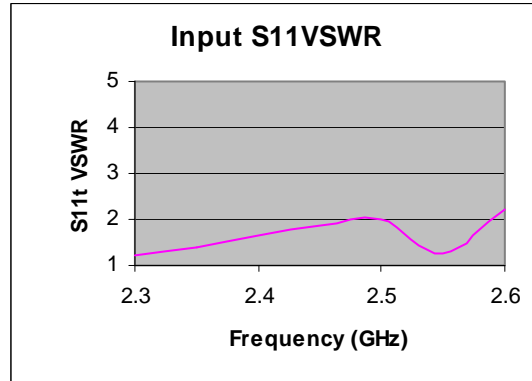
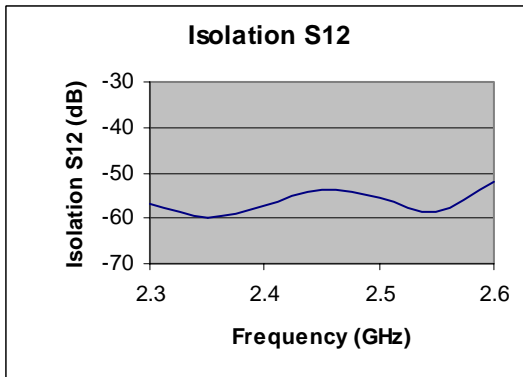
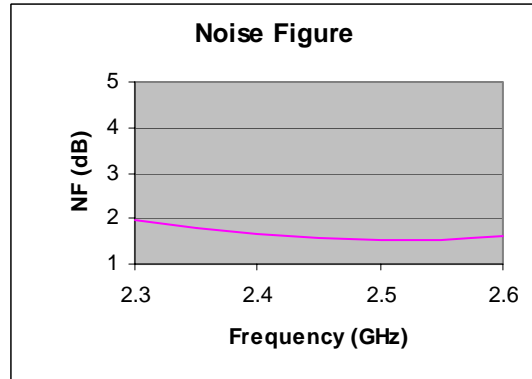
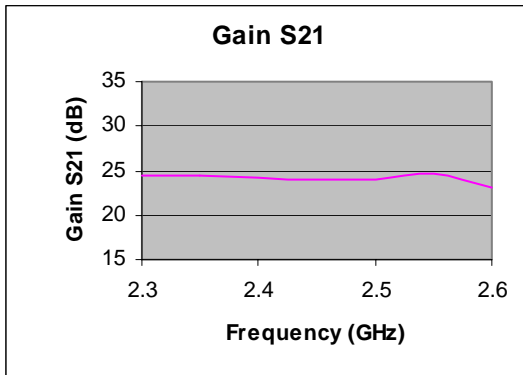
Picture



Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	2.4		2.5
Gain f = 2.40GHz	dB		24	
f = 2.45GHz	dB		24	
f = 2.50GHz	dB		24	
P _{1dB} f = 2.40GHz	dBm		+10	
f = 2.45GHz	dBm		+10	
f = 2.50GHz	dBm		+10	
IP3 f= 2.45GHz	dBm		+20	
Noise Figure f = 2.40GHz	dB		1.7	
f = 2.45GHz	dB		1.7	
f = 2.50GHz	dB		1.7	
VSWR f = 2.45GHz				
Input VSWR			2.0:1	
Output VSWR			1.5:1	
DC Power Supply	V	6	12	15
Supply Current	mA		45	

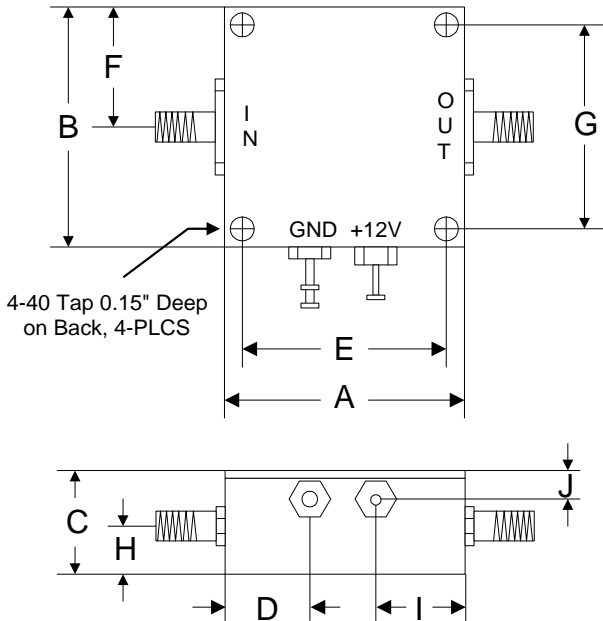
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+16V
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