

## LNA Series

## 2400 – 2500MHz Low Noise Amplifier

### Features

- Frequency Range: 2400-2500MHz
- Gain: 14dB
- P<sub>1dB</sub>: +26dBm
- IP<sub>3</sub>: +39dBm
- Noise Figure: 0.85dB
- DC Power: 5V/170mA
- SMA Connector

### Picture



Performance measured @ 2450MHz

### Description

LNA-2425 is a high dynamic range Low Noise Amplifier as well as 400mW Driver Amplifier operates with frequency range from 2400 to 2500MHz ISM Band.

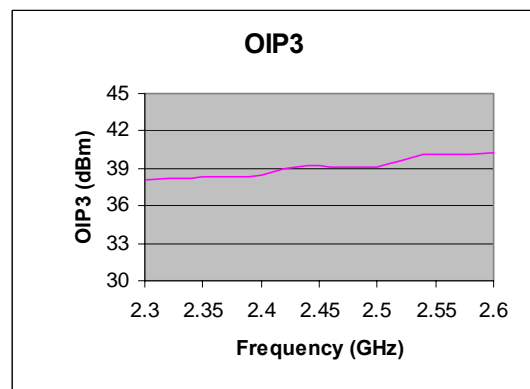
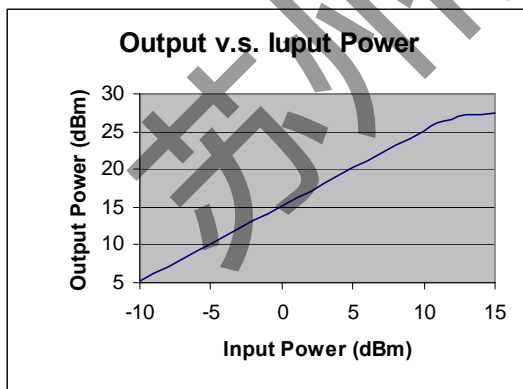
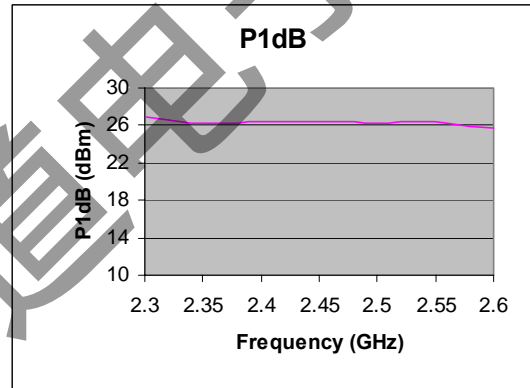
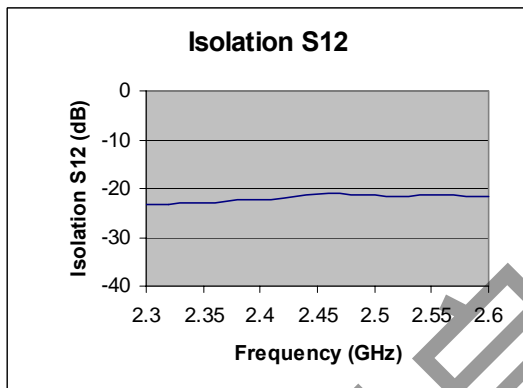
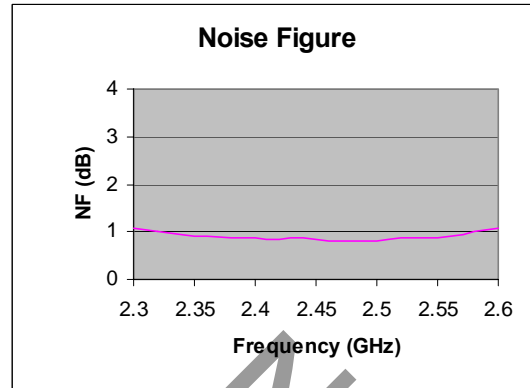
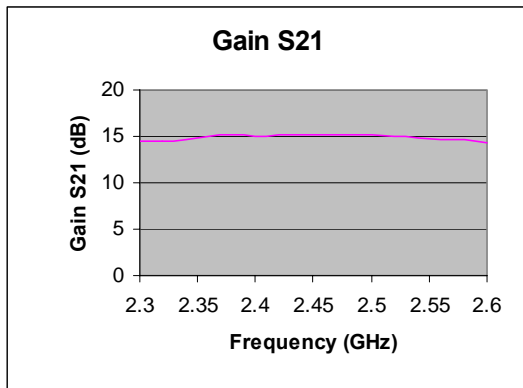
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>cc</sub> = +5.0V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2400		2500
Gain	f = 2400MHz	dB	14	
	f = 2450MHz	dB	14	
	f = 2500MHz	dB	14	
P <sub>1dB</sub>	f = 2450MHz	dBm	+26	
IP <sub>3</sub>	f = 2450MHz	dBm	+39	
Noise Figure		dB	0.85	1.00
Reverse Isolation		dB	-20	
VSWR	f = 2450MHz			
	Input VSWR		1.9:1	
	Output VSWR		1.2:1	
DC Power Supply	V	4.75	5	5.25
Supply Current	mA		170	

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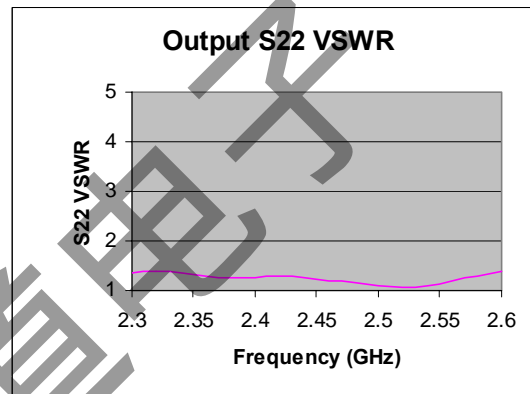
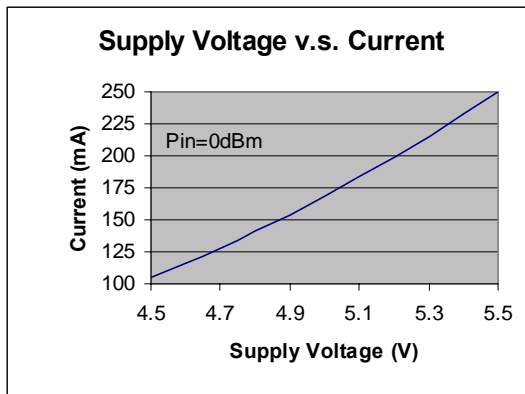
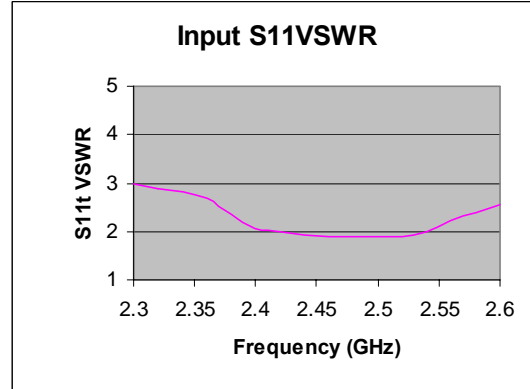
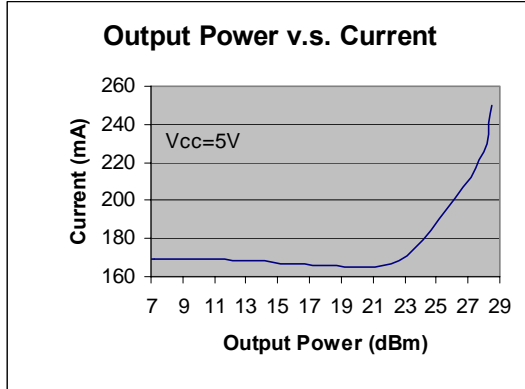
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### Typical Performance @ +25 °C



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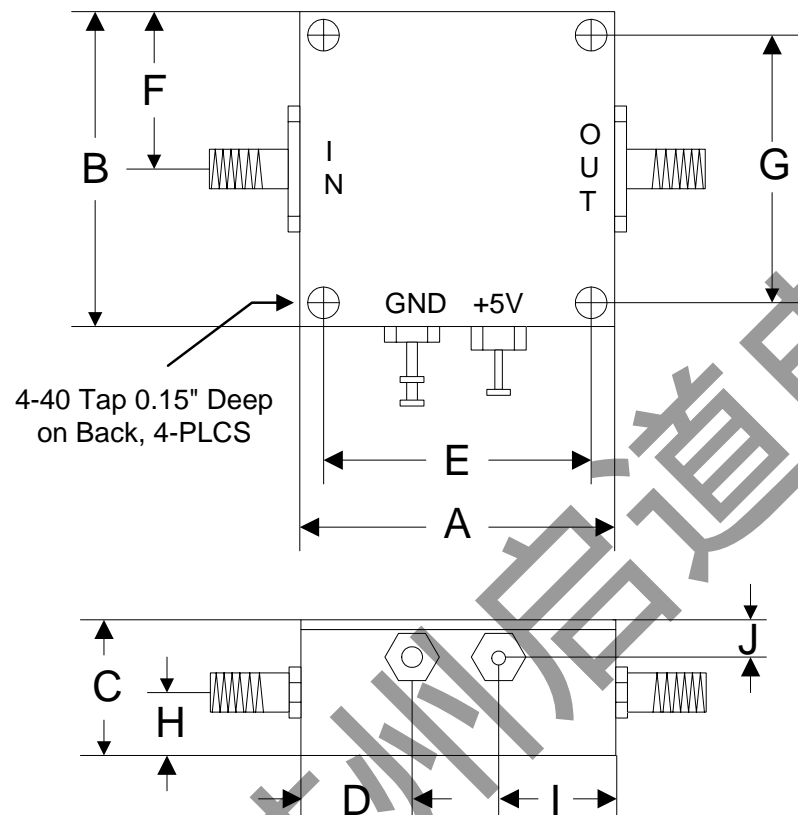
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage	+6V
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
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76