

## HD24403

## 2400 – 2500MHz Low Noise Amplifier

### Features

- Frequency Range: 2400-2500MHz
- Gain: 16dB
- P<sub>1dB</sub>: +14dBm
- IP3: +26dBm
- Noise Figure: 1.5dB
- DC Power: 6 - 24V
- SMA Connector



Performance measured @ 2450MHz

### Description

HD24403 is a 1.5dB Noise Figure Low Noise Amplifier operates in 2.4GHz ISM frequency band from 2400 to 2500MHz.

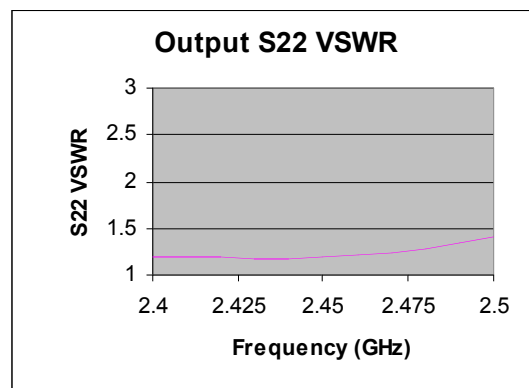
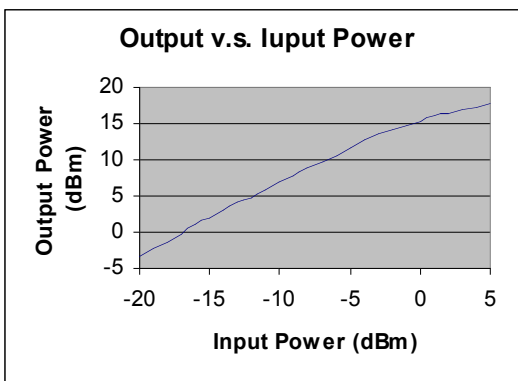
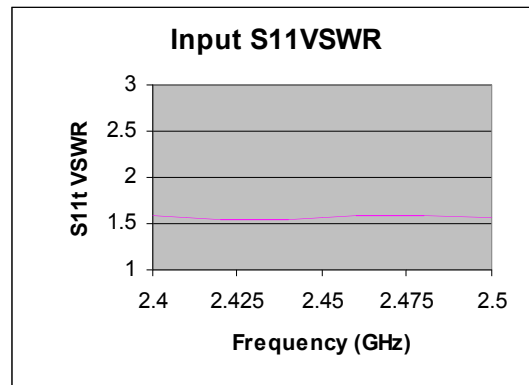
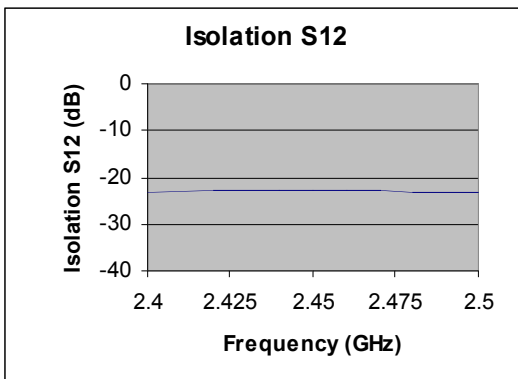
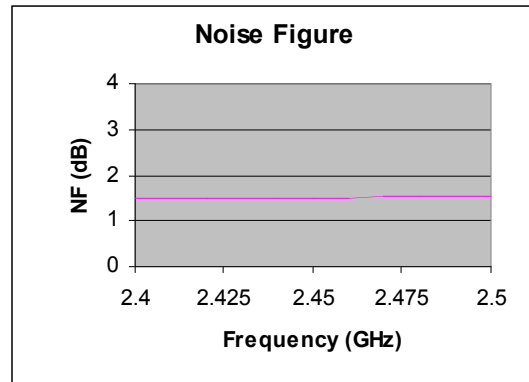
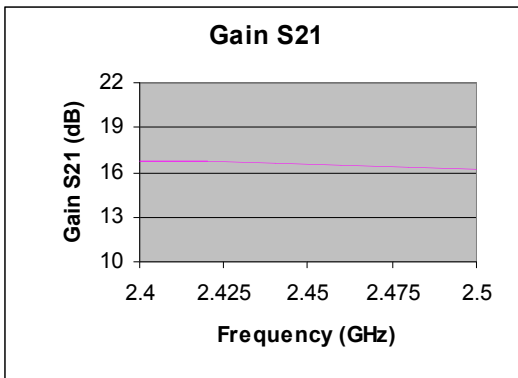
### Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2400		2500
Gain f = 2400MHz	dB		16	
f = 2450MHz	dB	15	16	
f = 2500MHz	dB		16	
P <sub>1dB</sub> f = 2450MHz	dBm		+14	
IP3 f= 2450MHz	dBm		+26	
Noise Figure	dB		1.5	1.7
Reverse Isolation	dB		-23	
VSWR f = 2450MHz				
Input VSWR			1.6:1	
Output VSWR			1.3:1	
DC Power Supply	V	6	12	24
Supply Current	mA		25	

**HD24403**

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**Typical Performance @ +25 °C**



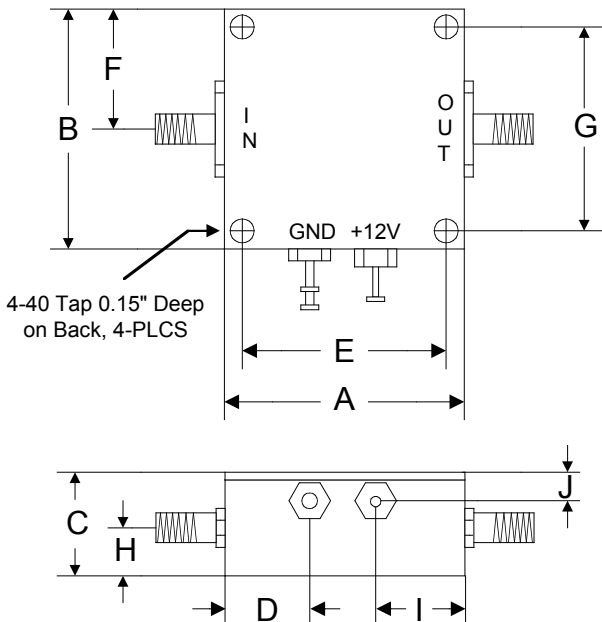
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
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
<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