

## HD24400

## 2000 – 2400MHz Low Noise Amplifier

### Features

- Frequency Range: 2000-2400MHz
- Gain: 17dB
- P<sub>1dB</sub>: +13dBm
- IP3: +25dBm
- Noise Figure: 1.4dB
- DC Power: 6 - 24V
- SMA Connector



Performance measured @ 2200MHz

### Description

HD24400 is a wideband Low Noise Amplifier operates with frequency range useable from 2000 to 2400MHz.

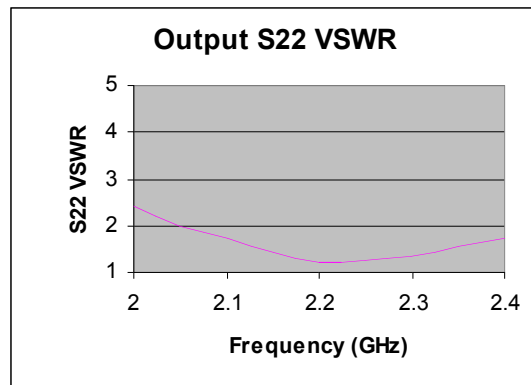
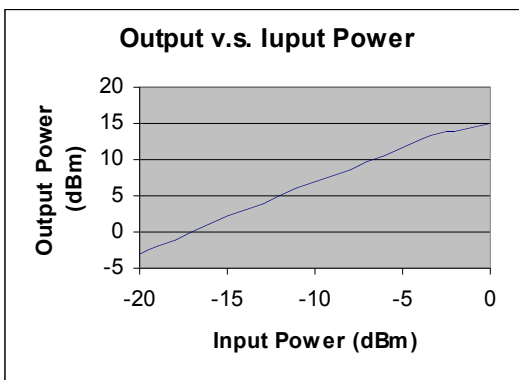
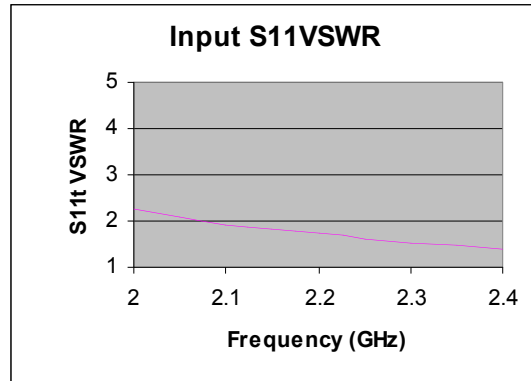
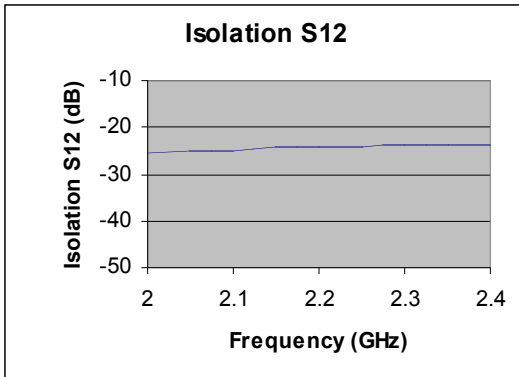
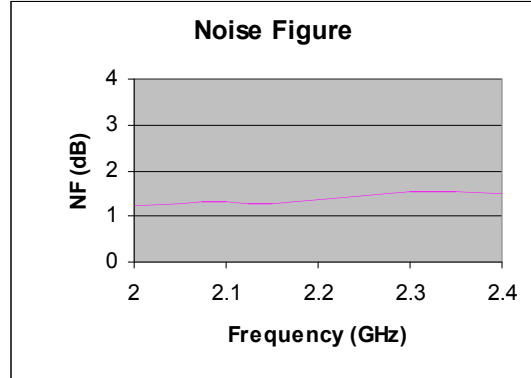
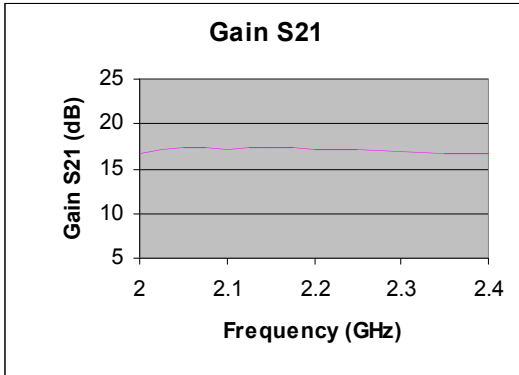
### Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2000		2400
Gain				
f = 2000MHz	dB		17	
f = 2200MHz	dB	15	17	
f = 2400MHz	dB		16	
P <sub>1dB</sub>	dBm		+13	
IP3	dBm		+25	
Noise Figure	dB		1.4	1.6
Reverse Isolation	dB		-25	
VSWR				
f = 2200MHz				
Input VSWR			1.7:1	
Output VSWR			1.4:1	
DC Power Supply	V	6	12	24
Supply Current	mA		25	

**HD24400**

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**Typical Performance @ +25 °C**



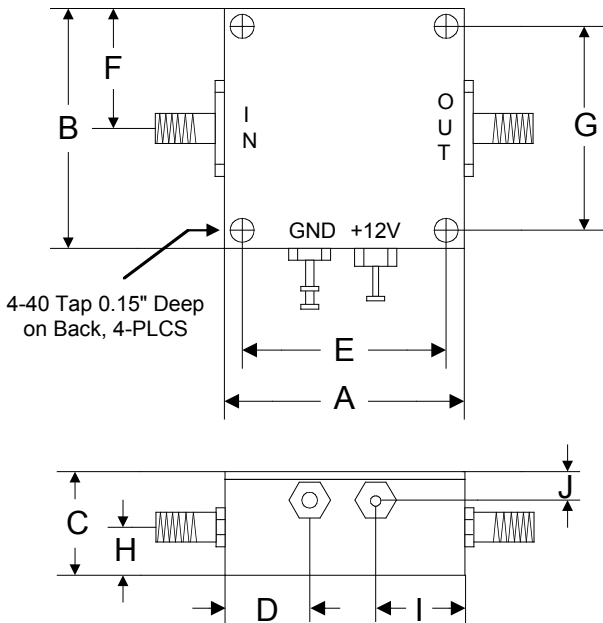
## HD24400

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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