

## HD24401

## 2200 – 2700MHz Low Noise Amplifier

### Features

- Frequency Range: 2200-2700MHz
- Gain: 16dB
- $P_{1dB}$ : +14dBm
- IP3: +26dBm
- Noise Figure: 1.4dB
- DC Power: 6 - 24V
- SMA Connector



Performance measured @ 2450MHz

### Description

HD24401 is a 1.4dB Noise Figure Low Noise Amplifier operates with ISM band frequency range from 2.2 to 2.7GHz.

### Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2400		2500
Gain	f = 2200MHz		16	
	f = 2450MHz	14	16	
	f = 2700MHz		15	
$P_{1dB}$	f = 2450MHz		+14	
IP3	f = 2450MHz		+26	
Noise Figure			1.4	1.6
Reverse Isolation			-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	

HD Communications Corp.

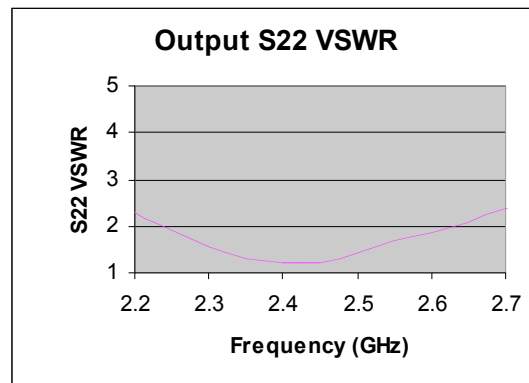
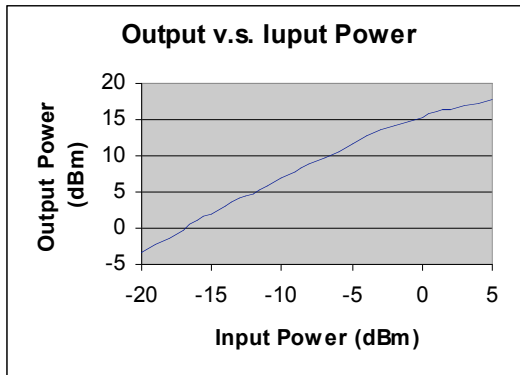
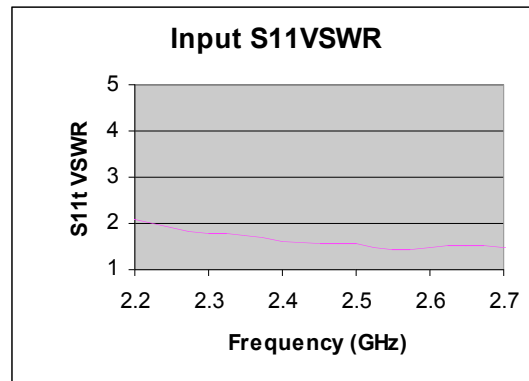
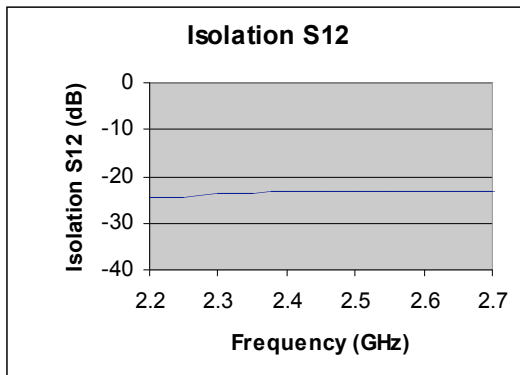
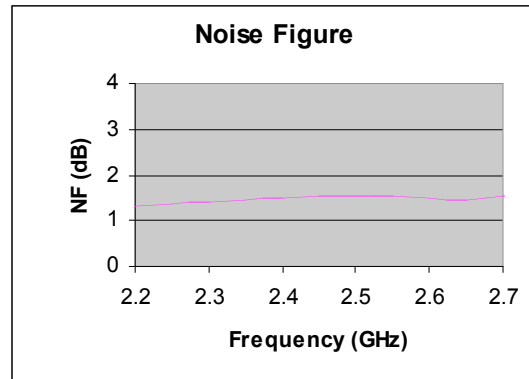
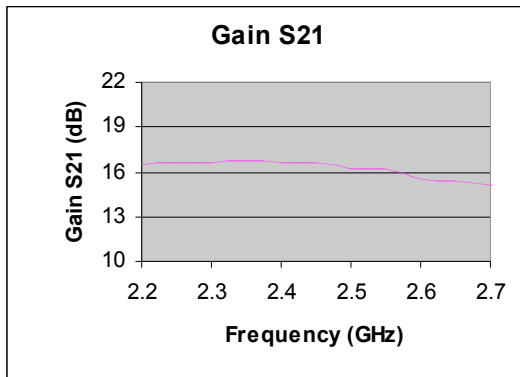
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**HD24401**

**2200 – 2700MHz Low Noise Amplifier**

**Typical Performance @ +25 °C**



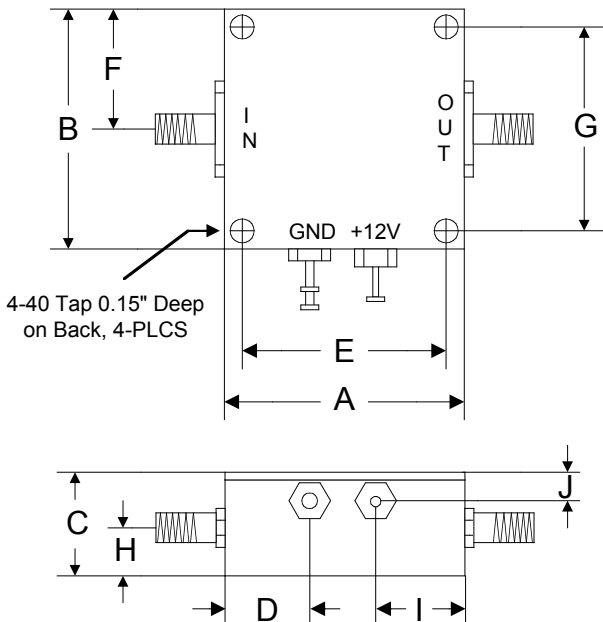
**HD24401**

**2200 – 2700MHz Low Noise Amplifier**

**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