

## HD24304

## 2400 – 2500MHz Low Noise Amplifier

### Features

- Frequency Range: 2.4-2.5GHz
- Gain: 24dB
- P<sub>1dB</sub>: +10dBm
- IP3: +20dBm
- Noise Figure: 1.7dB
- DC Power: 12V
- SMA Connector

Performance measured @ 2.45GHz

### Description

HD24304 is a Low Noise Amplifier operates with frequency range for 2.4GHz ISM Band.



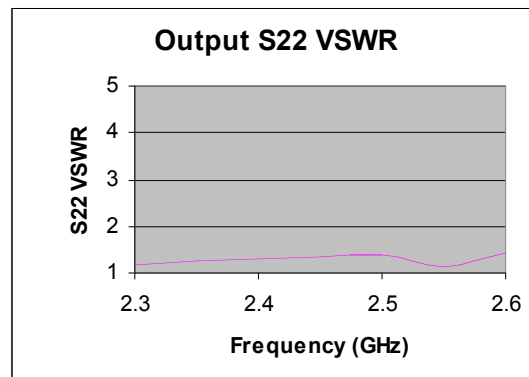
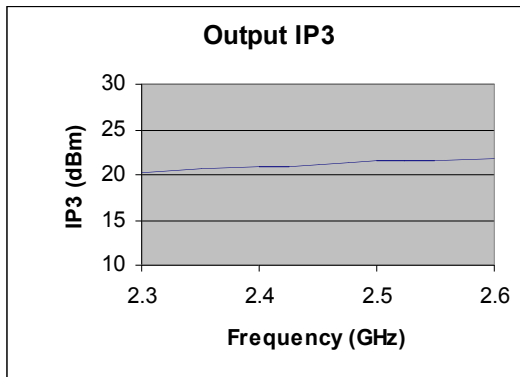
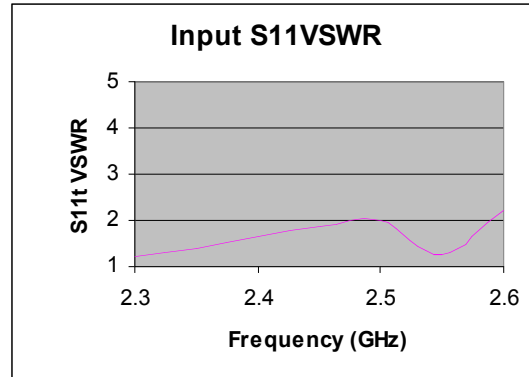
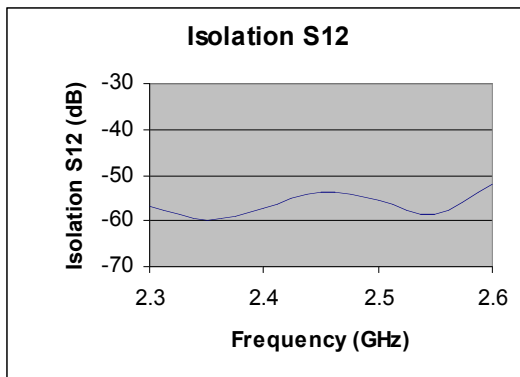
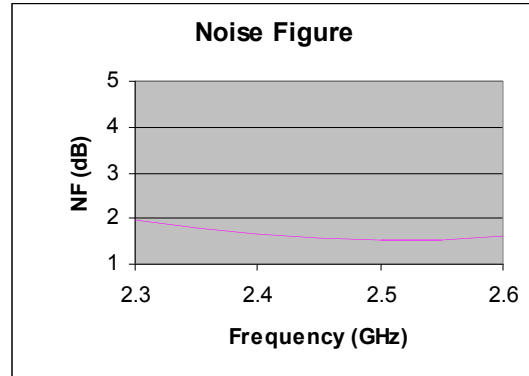
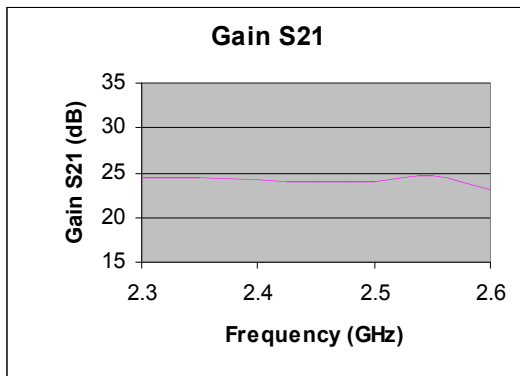
### Electrical Specifications @ +25 °C

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 <sub>1dB</sub>				
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	

**HD24304**

**2400 – 2500MHz Low Noise Amplifier**

**Typical Performance @ +25 °C**



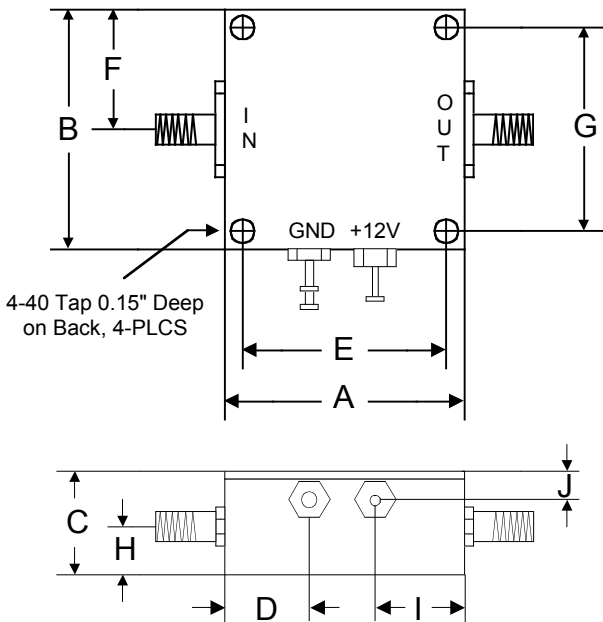
**HD24304**

**2400 – 2500MHz Low Noise Amplifier**

**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
<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