

## HD24635

## 5000 – 6000MHz Low Noise Amplifier

### Features

- Frequency Range: 5.0 – 6.0GHz
- Gain: 16dB
- P<sub>1dB</sub>: +12dBm
- IP3: +24dBm
- Noise Figure: 2.0dB
- DC Power: 12V
- SMA Connector

Performance measured @ 5.5GHz

### Description

HD24635 is a 16dB Gain Low Noise Amplifier operates with frequency range

from 5.0 to 6.0GHz, cover both 5.2GHz and 5.8GHz ISM Band



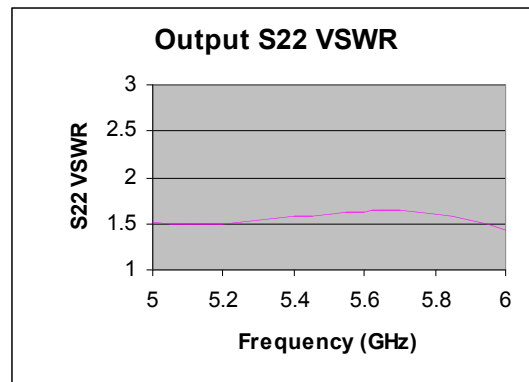
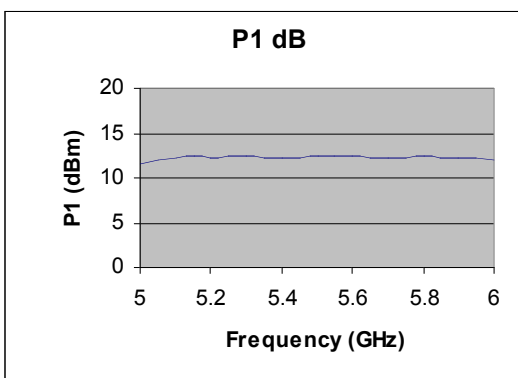
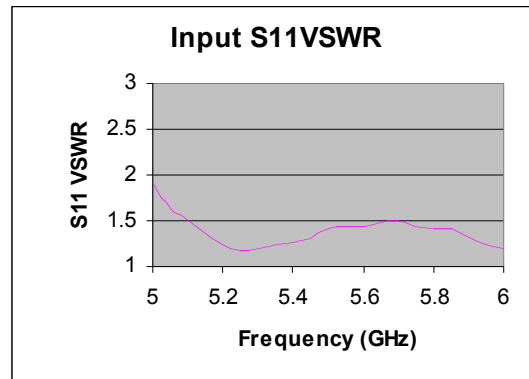
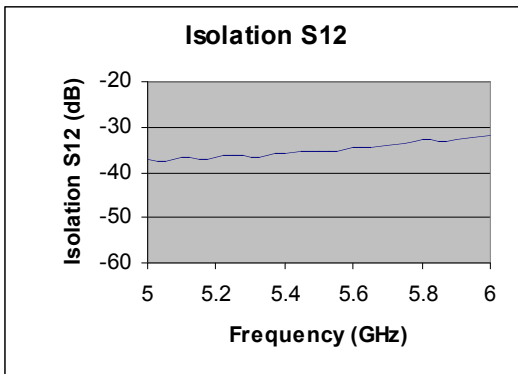
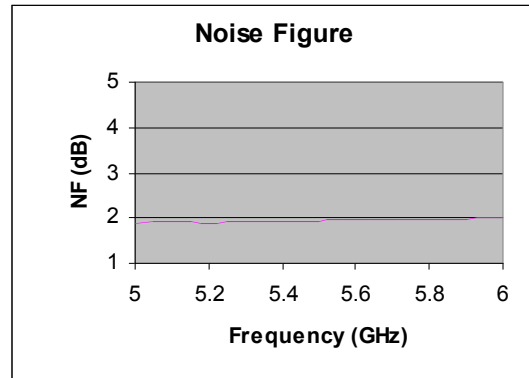
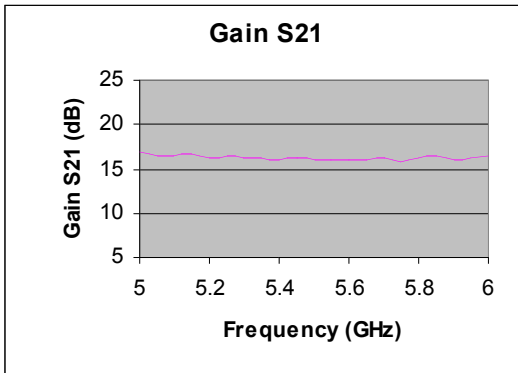
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5.0		6.0
Gain	f = 5.0 GHz		16.5	
	f = 5.5 GHz		16	
	f = 6.0 GHz		16	
P <sub>1dB</sub>	f = 5.0 GHz		+11	
	f = 5.5 GHz		+12	
	f = 6.0 GHz		+12	
IP3	f = 5.5 GHz		+24	
Noise Figure	dB		2.0	
Reverse Isolation	dB		-35	
VSWR	f = 5.0 – 6.0 GHz			
	Input VSWR		1.5:1	
	Output VSWR		1.6:1	
DC Power Supply	V	7	12	15
Supply Current	mA		55	

**HD24635**

**5000 – 6000MHz Low Noise Amplifier**

**Typical Performance @ +25 °C**



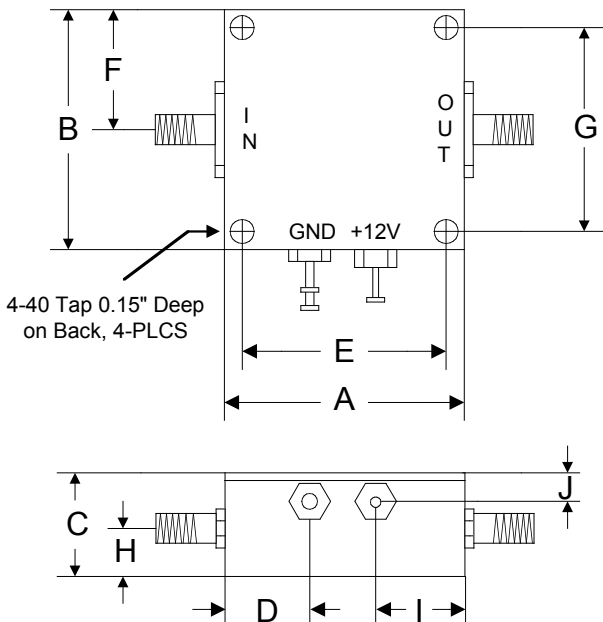
## HD24635

## 5000 – 6000MHz Low Noise Amplifier

### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
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
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76