

## HD24393

## 1150 – 1300MHz Low Noise Amplifier

### Features

- Frequency Range: 1150-1300MHz
- Gain: 20dB
- $P_{1dB}$ : +12dBm
- IP3: +24dBm
- Noise Figure: 1.2dB
- DC Power: 6 - 24V
- SMA Connector



Performance measured @ 1200MHz

### Description

HD24393 is a 1.2dB Noise Figure Low Noise Amplifier operates with frequency range usable from 1150 to 1300MHz.

### Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1150		1300
Gain				
f = 1150MHz	dB		22	
f = 1200MHz	dB	19	21	
f = 1300MHz	dB		20	
$P_{1dB}$	dBm		+12	
IP3	dBm		+24	
Noise Figure	dB		1.2	1.3
Reverse Isolation	dB		-28	
VSWR				
f = 1200MHz				
Input VSWR			2.0:1	
Output VSWR			1.6:1	
DC Power Supply	V	6	12	24
Supply Current	mA		25	

HD Communications Corp.

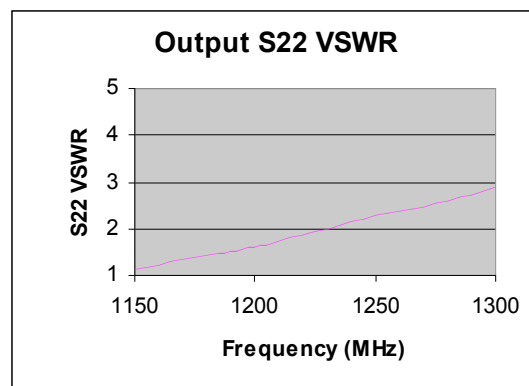
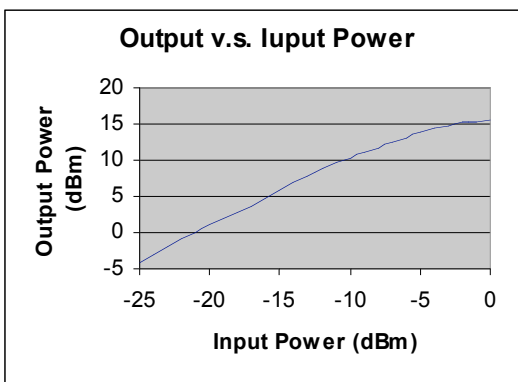
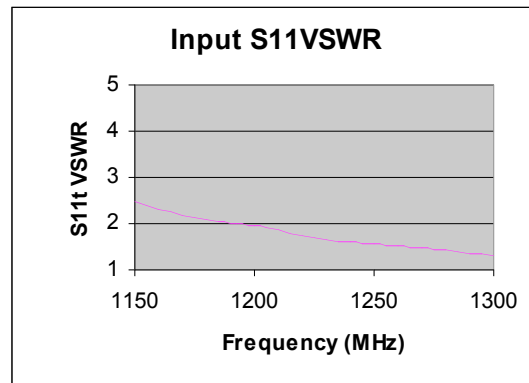
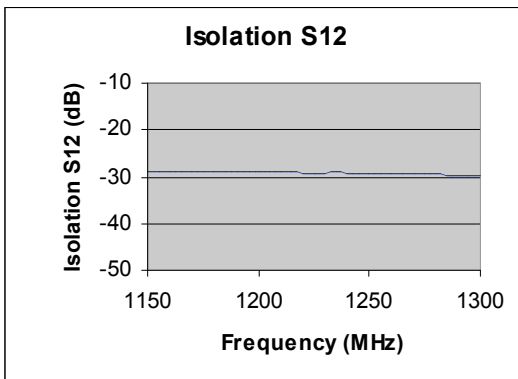
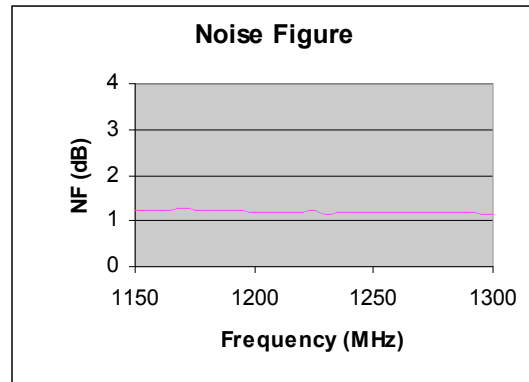
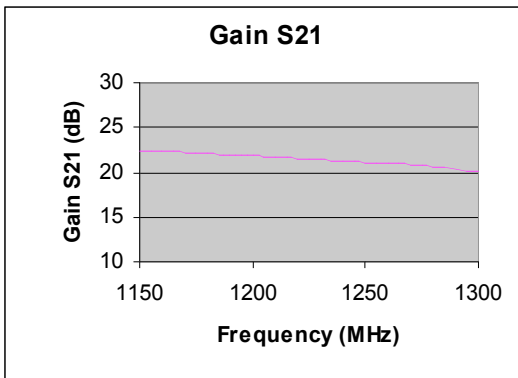
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**HD24393**

**1150 – 1300MHz Low Noise Amplifier**

**Typical Performance @ +25 °C**



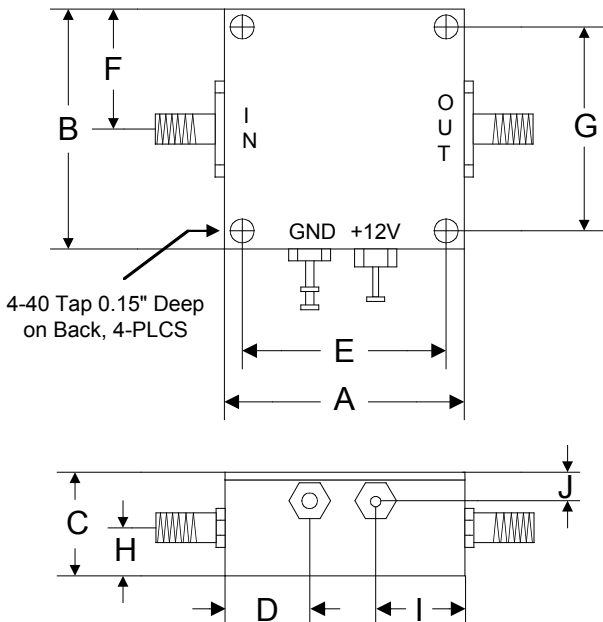
**HD24393**

**1150 – 1300MHz 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