

HD24392

50 – 1000MHz Low Noise Amplifier

Features

- Frequency Range: 50-1000MHz
- Gain: 45dB
- P_{1dB}: +22dBm
- IP3: +32dBm
- Noise Figure: 2.1dB
- DC Power: 12V
- SMA Connector

Performance measured @ 500MHz

Description

HD24392 is a 45dB gain wideband high dynamic range Low Noise Amplifier operates with frequency range from 50 to 1000MHz.



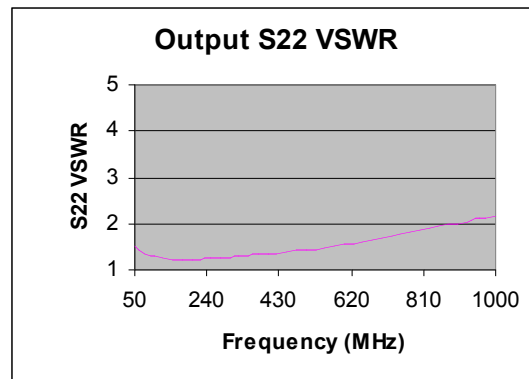
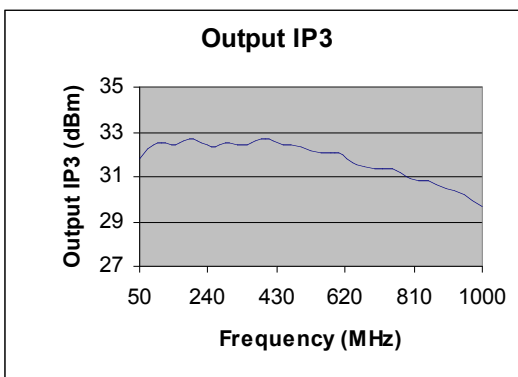
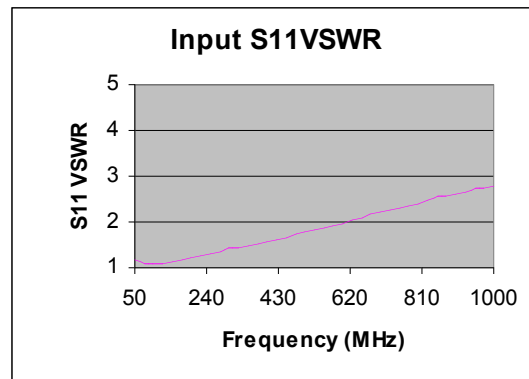
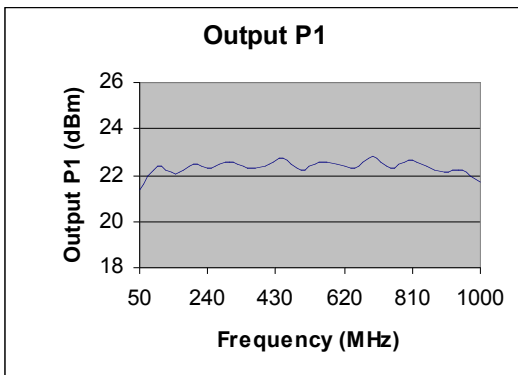
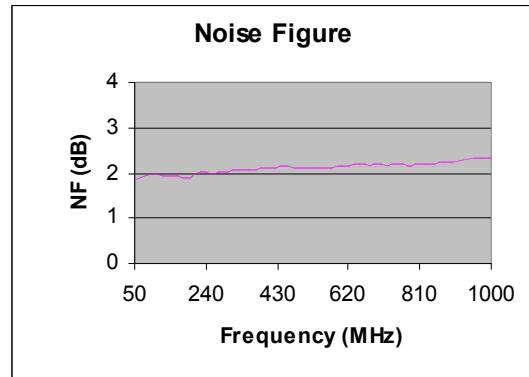
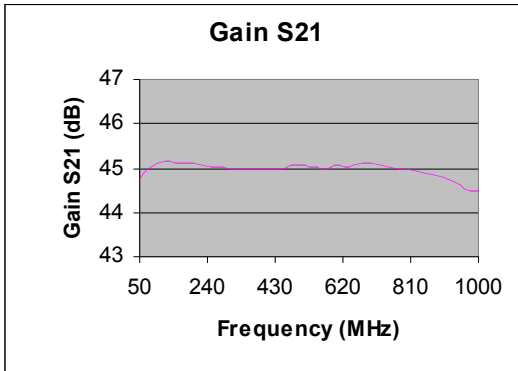
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		1000
Gain				
f = 50MHz	dB		45	
f = 500MHz	dB		45	
f = 1000MHz	dB		44	
P _{1dB}	dBm		+22	
IP3	dBm		+32	
Noise Figure	dB		2.1	
Reverse Isolation	dB		-50	
VSWR				
Input VSWR			1.8:1	
Output VSWR			1.5:1	
DC Power Supply	V	10	12	15
Supply Current	mA		140	

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Typical Performance @ +25 °C



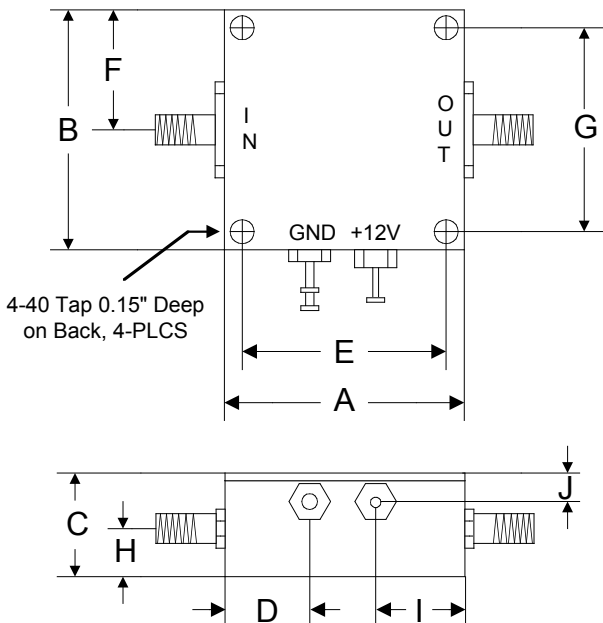
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Absolute Maximum Ratings

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
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