

HD24395

100 – 1400MHz Low Noise Amplifier

Features

- Frequency Range: 100-1400MHz
- Gain: 20dB
- P_{1dB}: +17dBm
- IP3: +35dBm
- Noise Figure: 0.8dB
- DC Power: 7 - 15V
- SMA Connector

Performance measured @ 700MHz

Description

HD24395 is a 0.8dB Noise Figure Wideband Low Noise Amplifier operates with frequency range usable from 100 to 1400MHz.



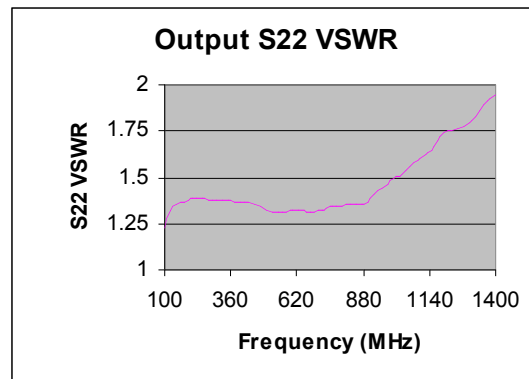
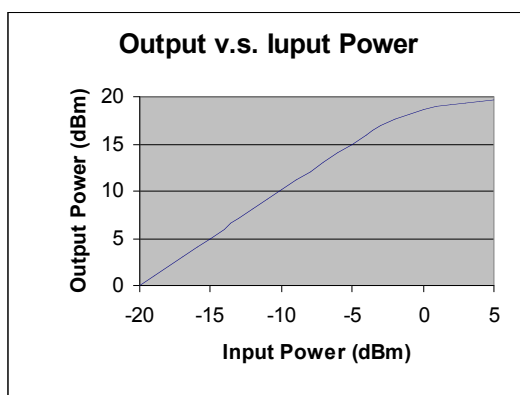
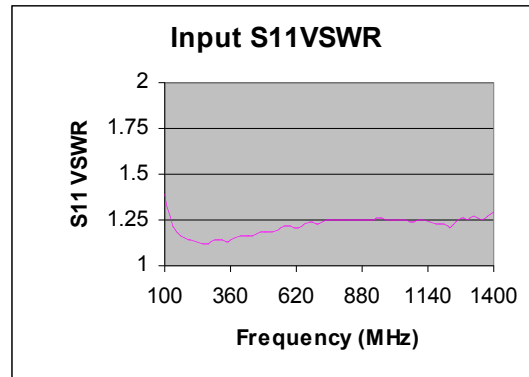
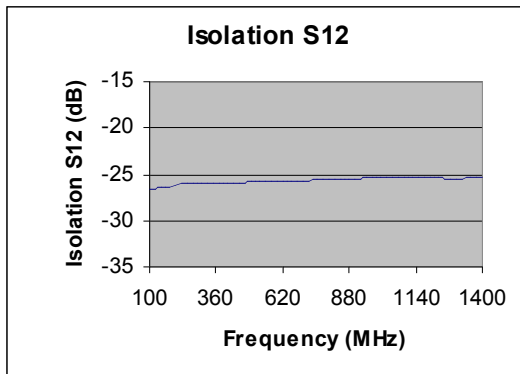
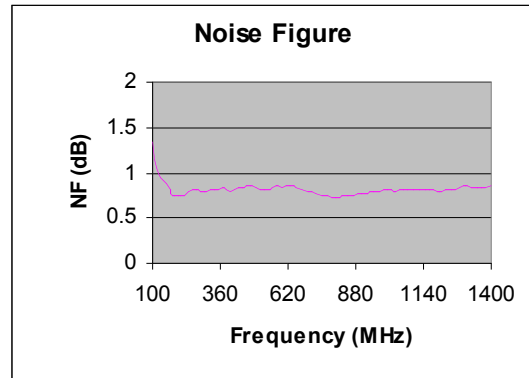
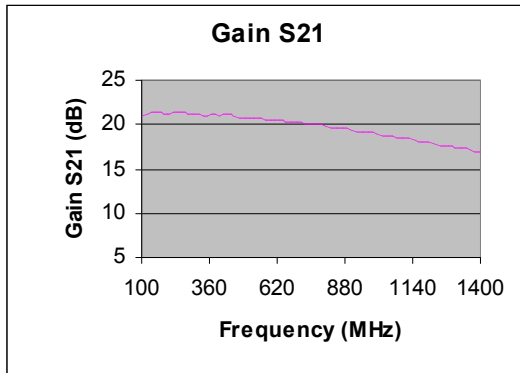
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	100		1400
Gain				
f = 100MHz	dB		21	
f = 700MHz	dB	19	20	
f = 1000MHz	dB		19	
f = 1400MHz	dB		16.5	
P _{1dB}	dBm		+17	
IP3	dBm		+35	
Noise Figure	dB		0.8	
Reverse Isolation	dB		-25	
VSWR				
Input VSWR			1.25:1	
Output VSWR			1.35:1	
DC Power Supply	V	7	12	15
Supply Current	mA		75	

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Typical Performance @ +25 °C



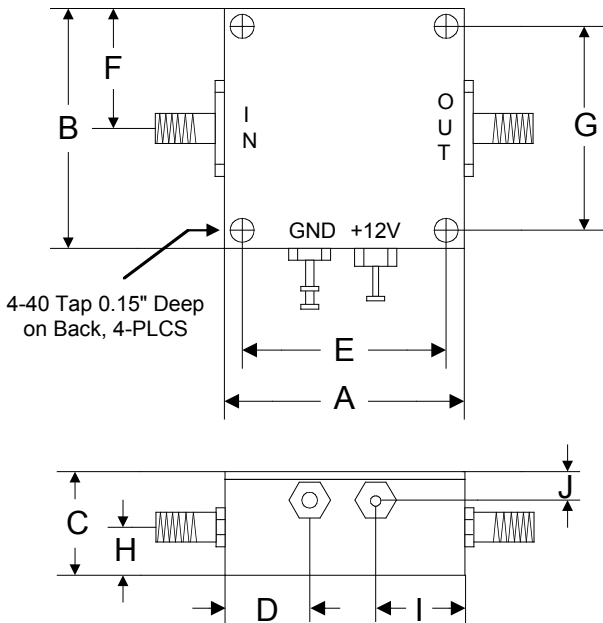
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Absolute Maximum Ratings

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