

HD29982

200 – 1600 MHz Low Noise Amplifier

Features

- Frequency Range: 200-1600MHz
- Gain: 38dB
- P_{1dB}: +18dBm
- IP3: +34dBm
- Noise Figure: 1.3dB
- DC Power: 10V-18V/135mA
- SMA Connector

Performance measured @ 900MHz

Description

HD29982 is a 38dB gain Low Noise Amplifier operates with frequency range from 200 to 1600MHz.



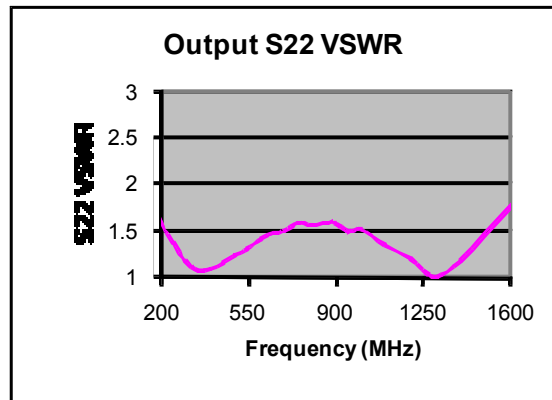
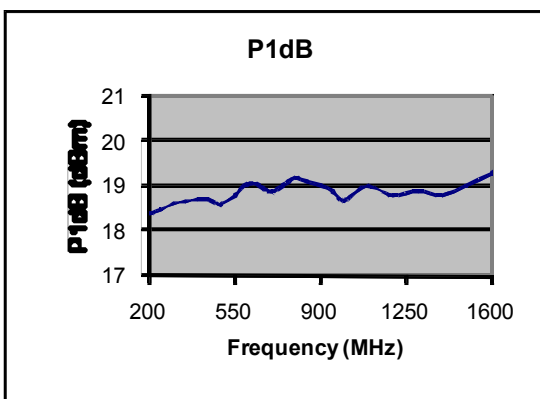
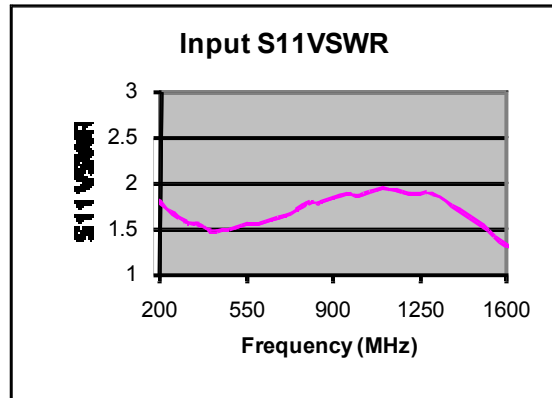
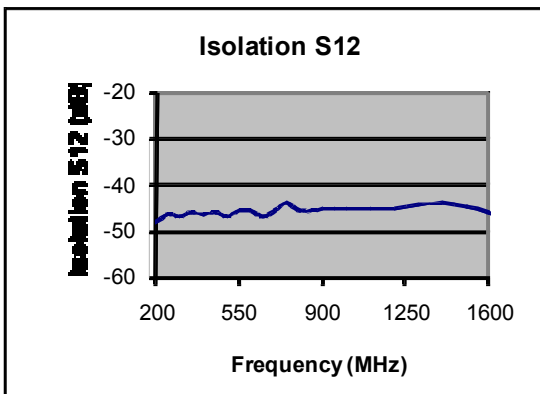
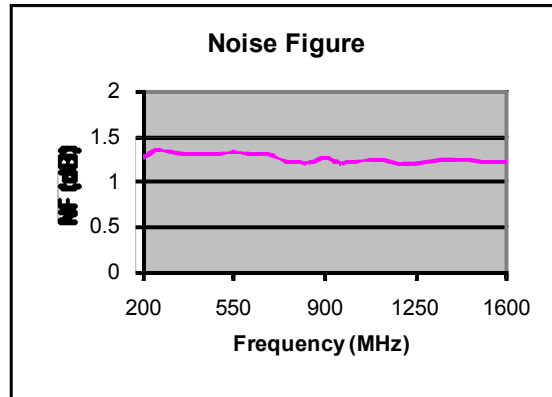
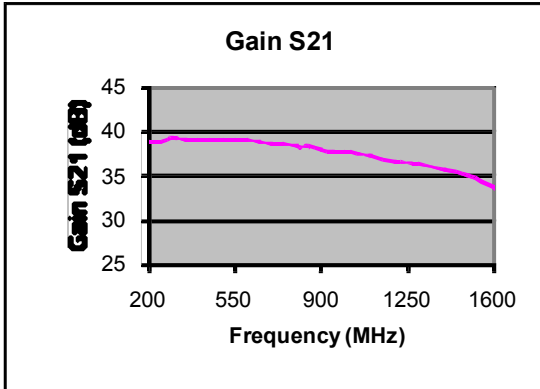
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50Ω, V_{cc} = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	200		1600
Gain f=200MHz	dB		38.8	
f=900MHz	dB		38.0	
f=1500MHz	dB		35.0	
f=1600MHz	dB		33.8	
P _{1dB}	dBm		+18	
IP3	dBm		+34	
Noise Figure	dB		1.3	1.5
Reverse Isolation	dB		-45	
VSWR Input VSWR			1.8:1	
Output VSWR			1.6:1	
DC Power Supply	V	10	12	18
Supply Current	mA		135	

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Typical Performance @ +25 °C



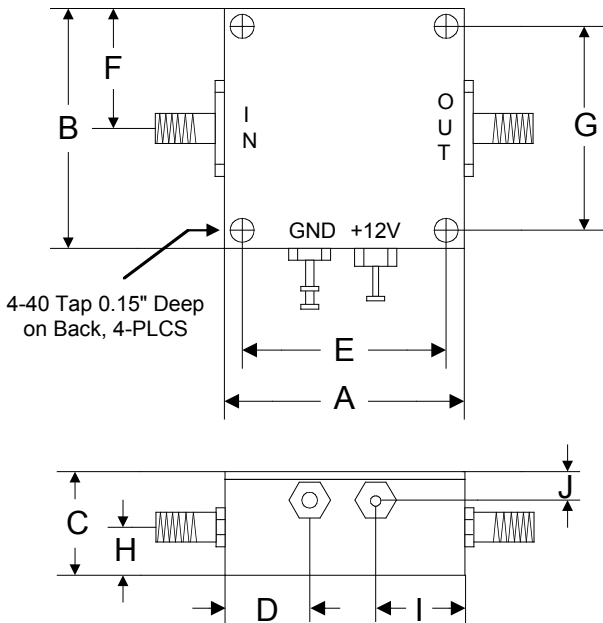
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Absolute Maximum Ratings

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