

## HD29980

## 50 – 1000 MHz Low Noise Amplifier

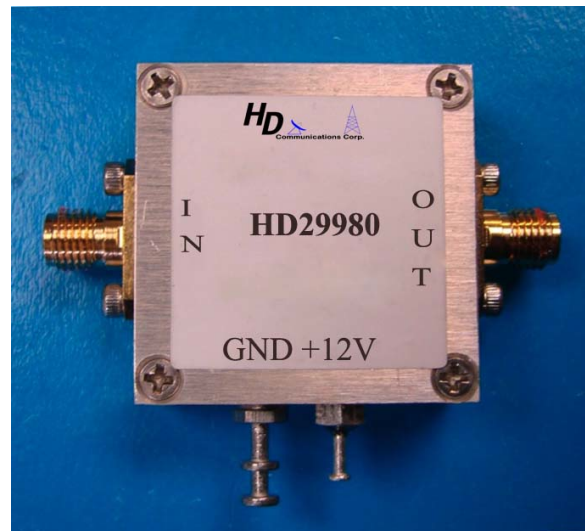
### Features

- Frequency Range: 50-1000MHz
- Gain: 36dB
- P<sub>1dB</sub>: +22dBm
- IP3: +38dBm
- Noise Figure: 1.0dB
- DC Power: 10V-18V/175mA
- SMA Connector

Performance measured @ 500MHz

### Description

HD29980 is a 36dB gain Low Noise Amplifier operates with frequency range from 50 to 1000MHz.



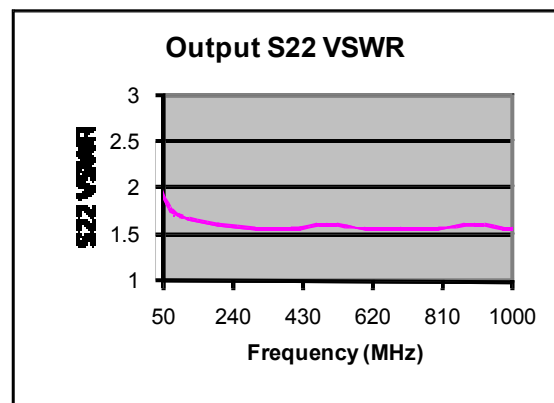
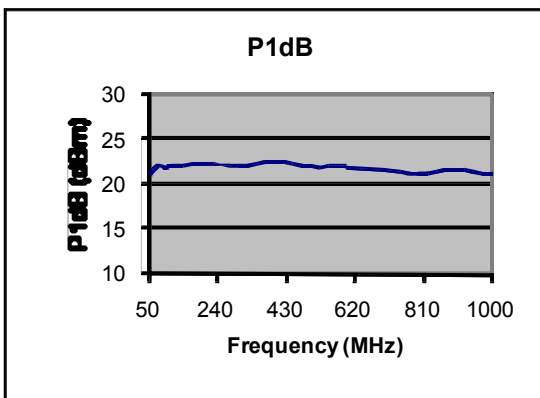
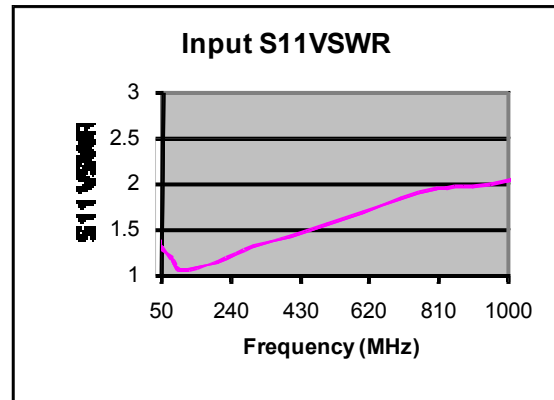
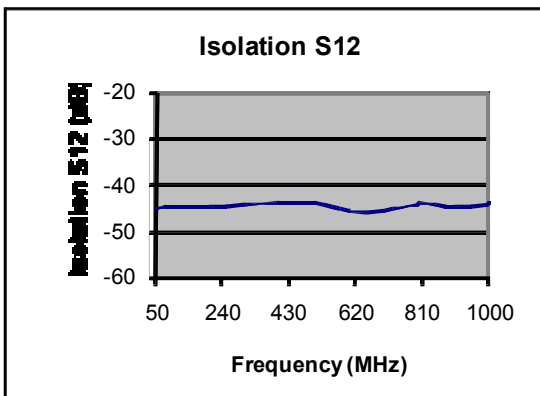
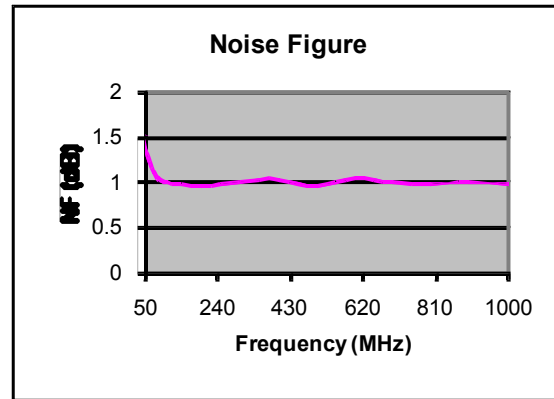
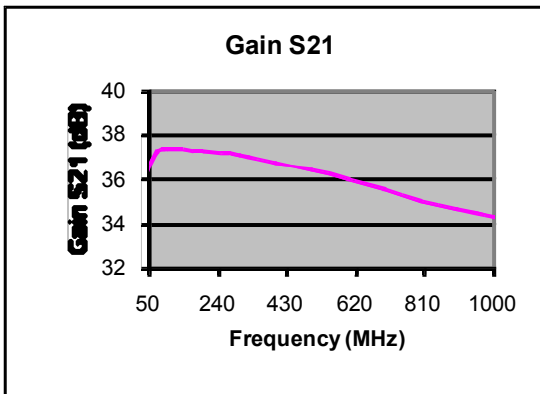
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50Ω, V<sub>cc</sub> = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		1000
Gain	dB		36	
Gain Flatness	dB		±1.0	
P <sub>1dB</sub>	dBm		+22	
IP3	dBm		+38	
Noise Figure	dB		1.0	1.2
Reverse Isolation	dB		-44	
VSWR	Input VSWR Output VSWR		1.6:1 1.6:1	
DC Power Supply	V	10	12	18
Supply Current	mA		175	

**HD29980**

**50 – 1000 MHz Low Noise Amplifier**

**Typical Performance @ +25 °C**



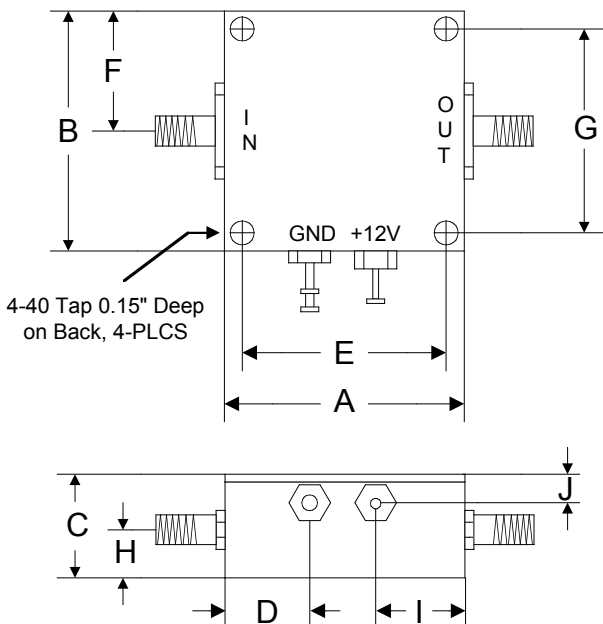
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### Absolute Maximum Ratings

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
<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