

HD29981

10 – 700 MHz Low Noise Amplifier

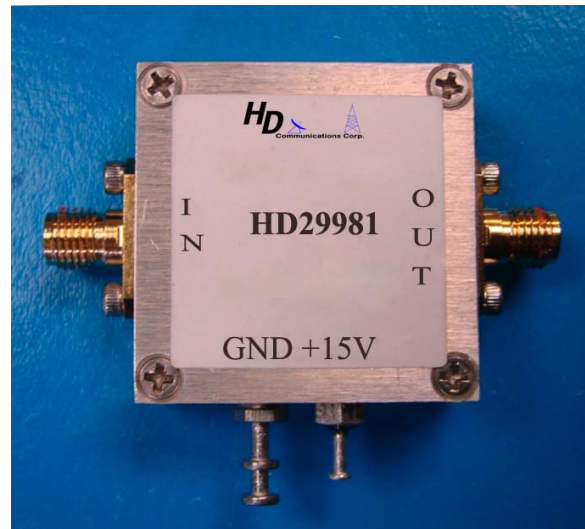
Features

- Frequency: 10 - 700MHz
- Gain: 47dB
- P_{1dB}: +22dBm
- IP3: +38dBm
- Noise Figure: 2dB
- DC Power: 15V/150mA
- SMA Connector

Performance measured @ 350MHz

Description

HD29981 is a wideband 47dB Gain Low Noise Amplifier operates with frequency range from 10 to 700MHz.



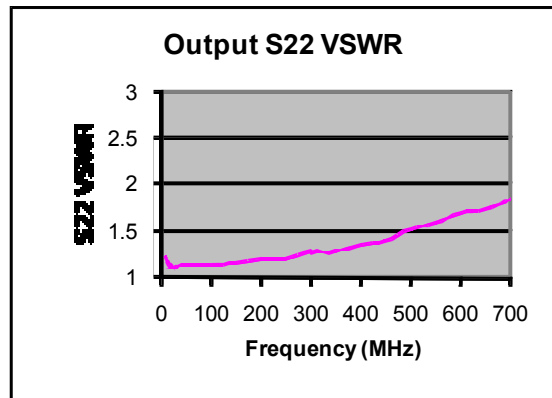
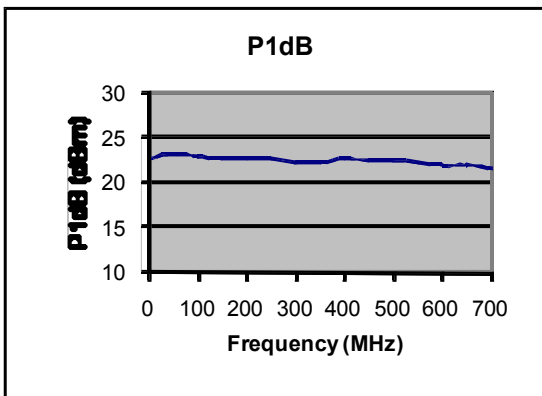
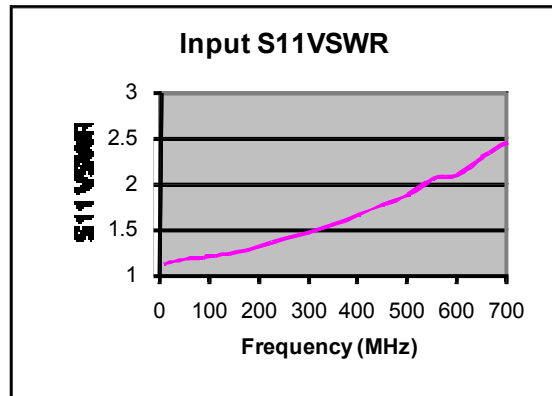
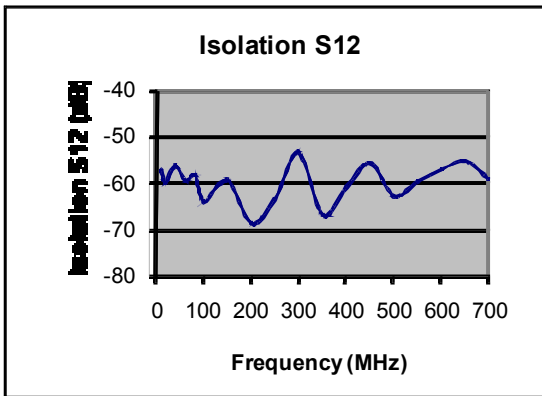
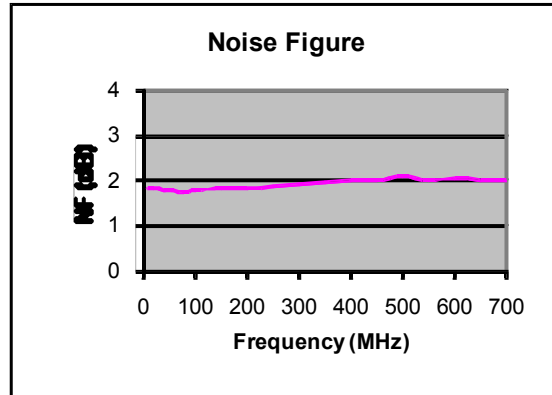
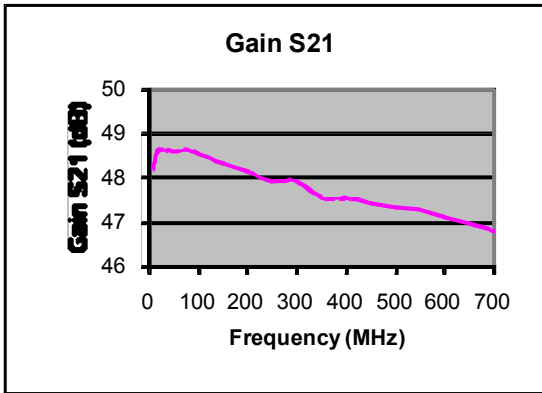
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = +15V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		700
Gain				
f = 10MHz	dB		48.0	
f = 350MHz	dB		47.5	
f = 700MHz	dB		46.8	
Gain Flatness	dB			± 1.0
P _{1dB}	dBm		+22	
IP3	dBm		+38	
Reserve Isolation	dB		-58	
Noise Figure	dB		2.0	
VSWR				
Input VSWR			1.6:1	
Output VSWR			1.3:1	
DC Power Supply	V		15	
Supply Current	mA		150	

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Typical Performance @ +25 °C



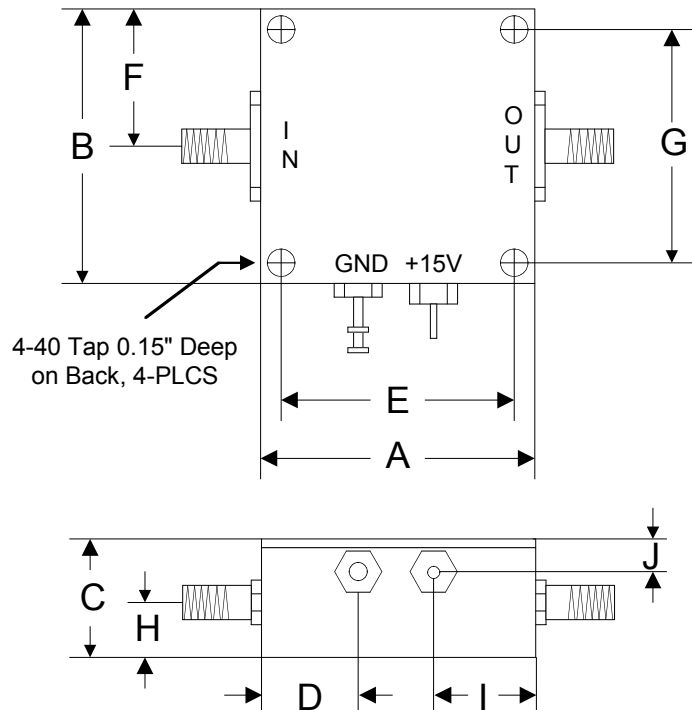
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+18V
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