

HD29234

50 – 1000 MHz Low Noise Amplifier

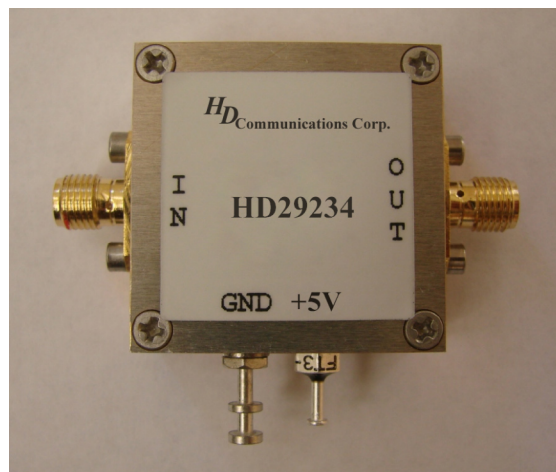
Features

- Frequency Range: 50 - 1000MHz
- Gain: 18dB
- P_{1dB}: +17dBm
- IP3: +31dBm
- Noise Figure: 1.0dB
- DC Power: 5V/70mA
- SMA Connector

Performance measured @ 500MHz

Description

HD29234 is a 1.0dB Noise Figure Low Noise 18dB Gain Amplifier operates with frequency range from 50 to 1000MHz.



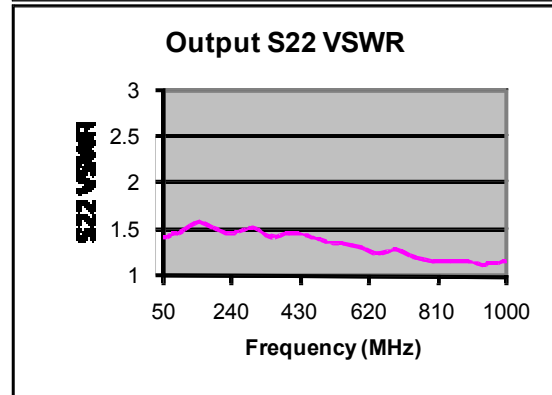
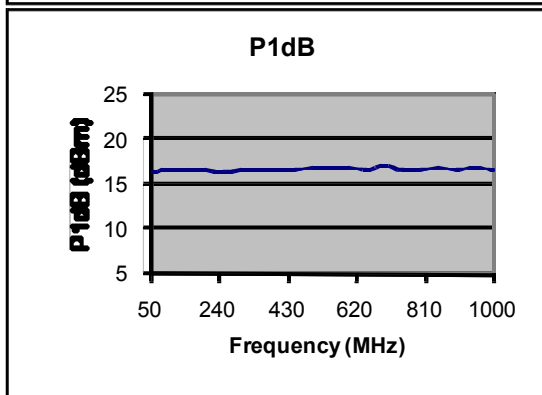
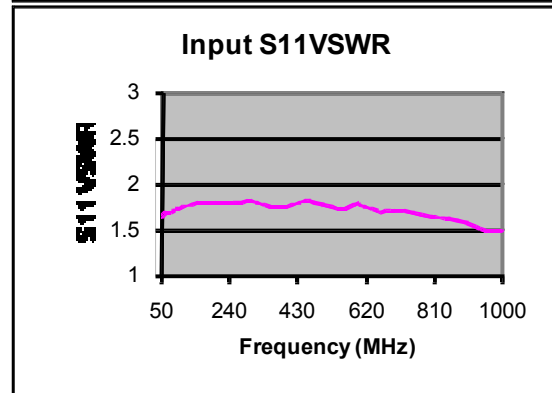
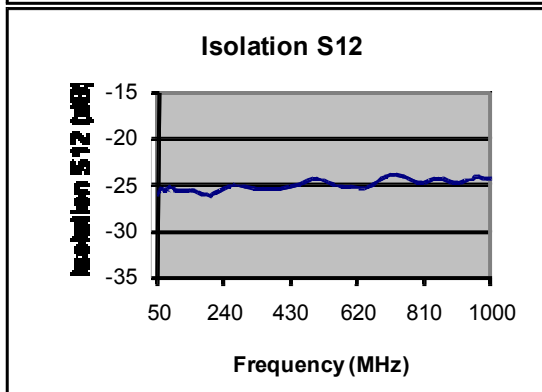
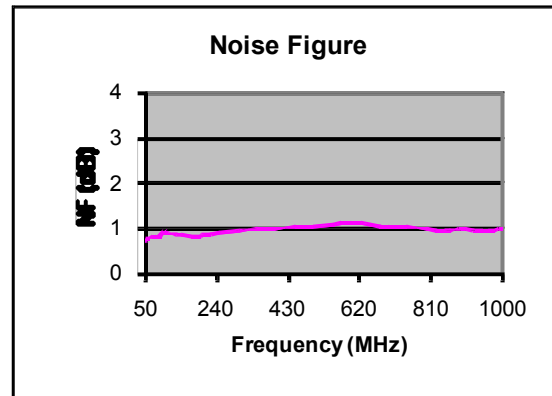
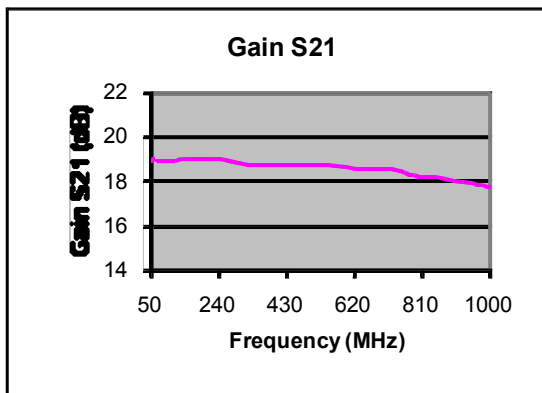
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = +5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		1000
Gain	dB		18	20
Gain Flatness	dB		± 0.5	
P _{1dB}	dBm	+15	+17	
IP3	dBm	+30	+31	
Noise Figure	dB		1.0	1.2
Reverse Isolation	dB		-25	
RF Input No Damage	dBm	+12	+15	
VSWR Input VSWR			1.8:1	2.0:1
Output VSWR			1.4:1	1.6:1
DC Power Supply	V	4.5	5	5.5
Supply Current	mA		70	
RF Connector		SMA Female		

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Typical Performance @ +25 °C



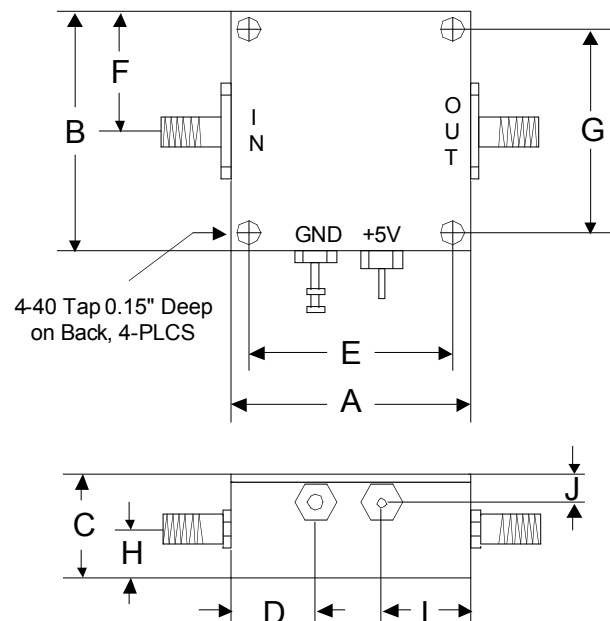
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+6V
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