

HD28184

2.0–3.0GHz Low Noise Amplifier

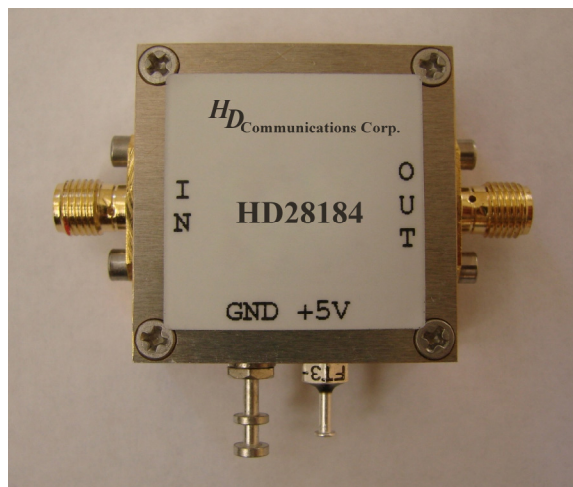
Features

- Frequency Range: 2.0 – 3.0GHz
- Gain: 19dB
- P_{1dB}: +19.5dBm
- IP3: +33.5dBm
- Noise Figure: 0.9dB
- DC Power: 5V/95mA
- SMA Connector

Performance measured @ 2.5GHz

Description

HD28184 is a 0.9dB Noise Figure Low Noise Amplifier operates in wideband with frequency range from 2.0GHz to 3.0GHz.



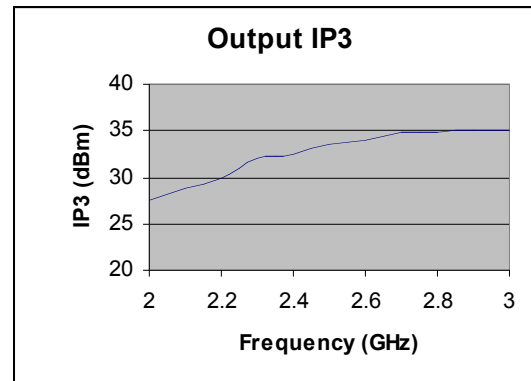
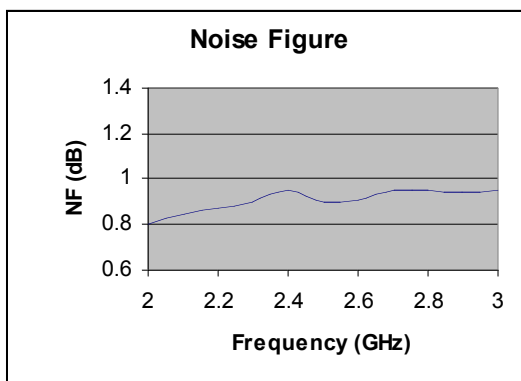
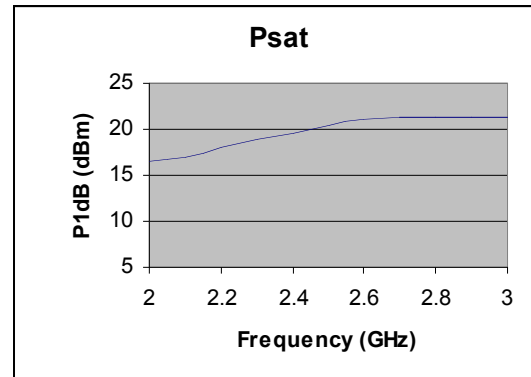
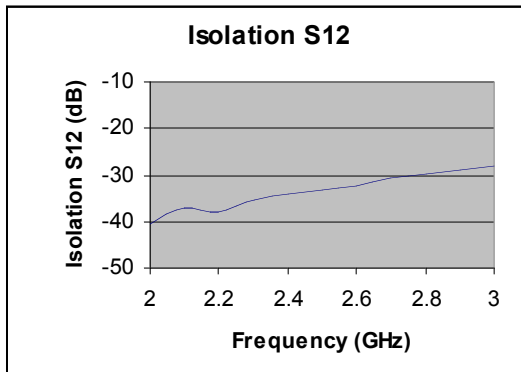
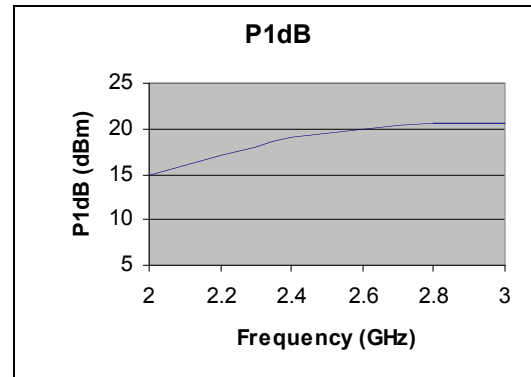
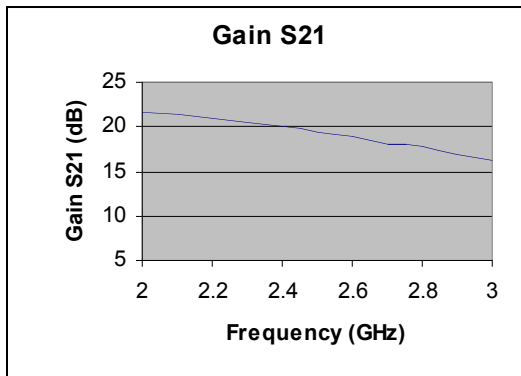
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = 5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	2.0		3.0
Gain f = 2.0GHz	dB		21.5	
f = 2.5GHz	dB		19.0	
f = 3.0GHz	dB		16.0	
P _{1dB} f = 2.0GHz	dBm		+15.0	
f = 2.5GHz	dBm		+19.5	
f = 3.0GHz	dBm		+20.5	
IP3 f = 2.0GHz	dBm		+27.5	
f = 2.5GHz	dBm		+33.5	
f = 3.0GHz	dBm		+35.0	
Noise Figure	dB		0.9	
Reverse Isolation	dB		-33	
VSWR Input VSWR			1.7:1	
Output VSWR			2.0:1	
DC Power Supply	V	3	5	5.5
Supply Current	mA		95	

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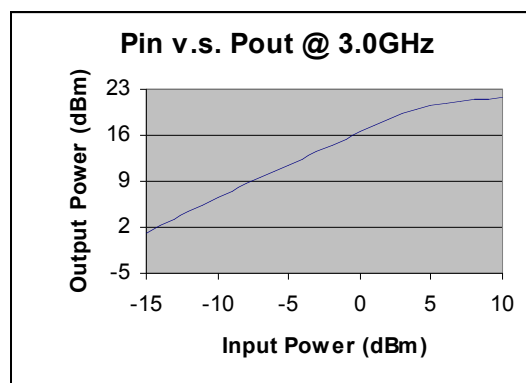
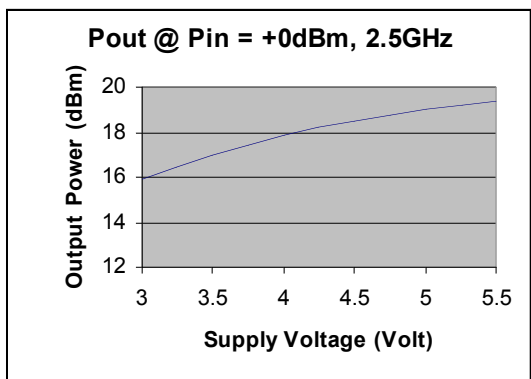
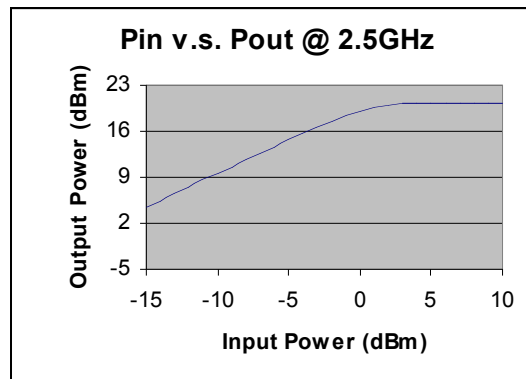
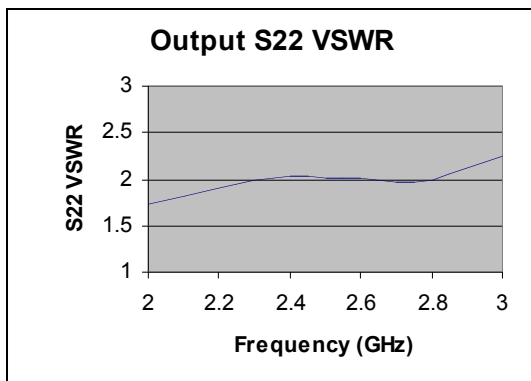
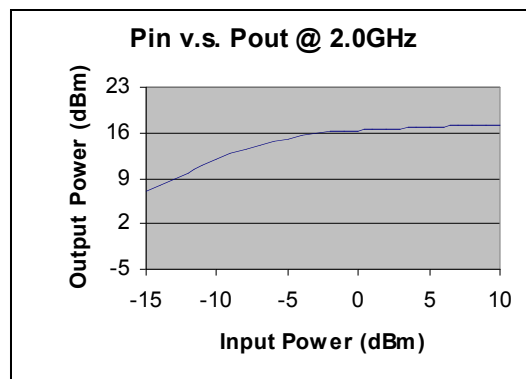
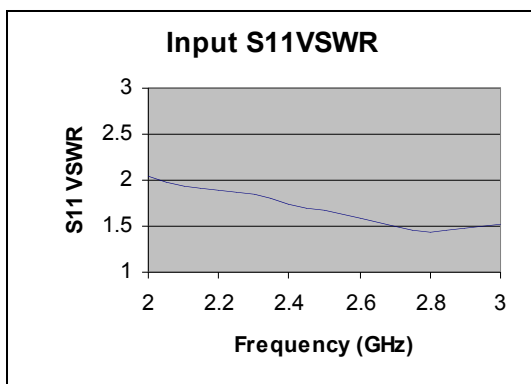
Typical Performance @ +25 °C



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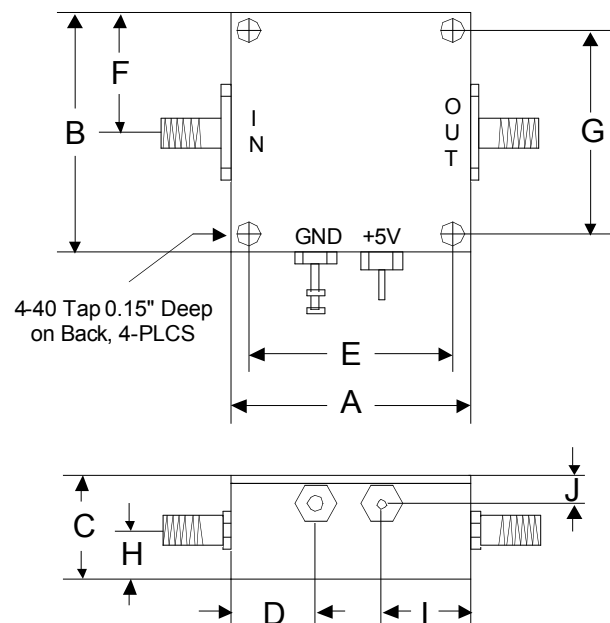
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
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