

HD27130

200 – 500MHz Low Noise Amplifier

Features

- Frequency Range: 200 - 500MHz
- Gain: 22dB
- P_{1dB}: +19dBm
- IP3: +35dBm
- Noise Figure: 0.5dB
- DC Power: 5V/100mA
- SMA Connector



Performance measured @ 350MHz

Description

HD27130 is a 0.5dB Noise Figure Low Noise Amplifier operates in wideband with frequency range from 200MHz to 500MHz.

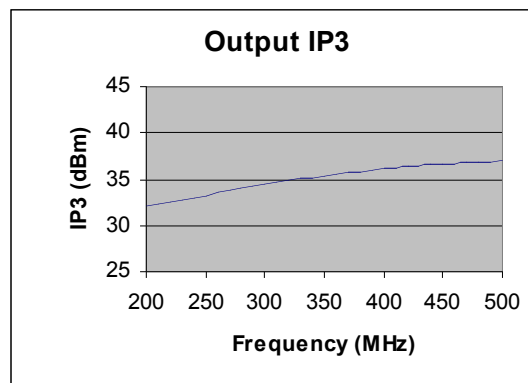
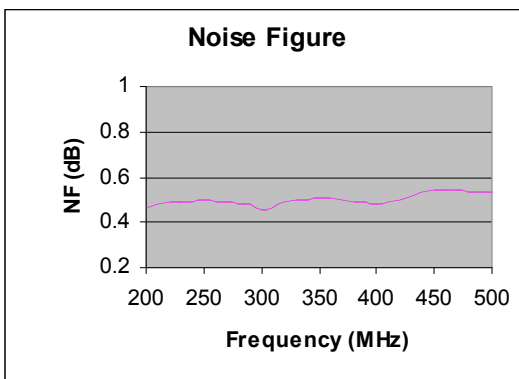
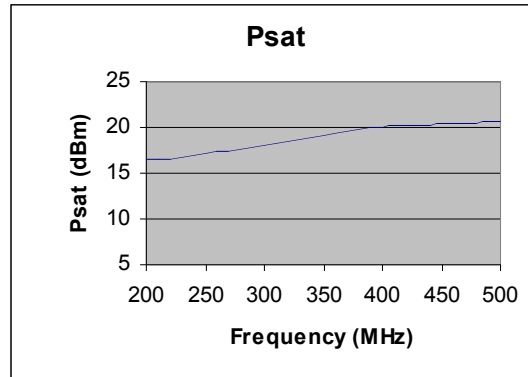
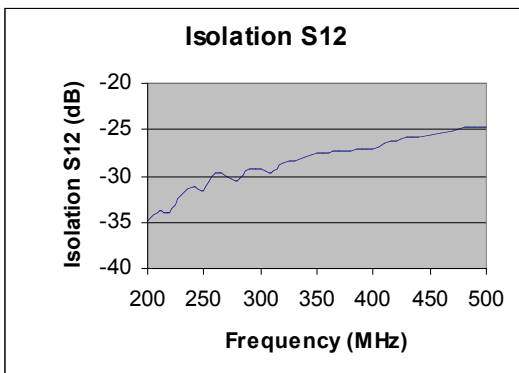
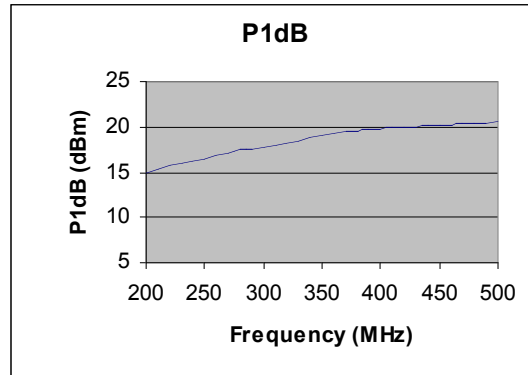
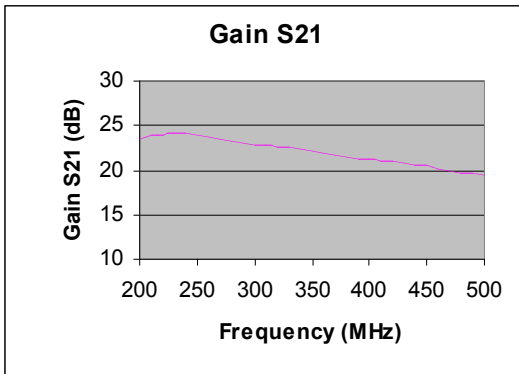
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = 5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	200		500
Gain				
f = 200MHz	dB		23.5	
f = 350MHz	dB		22.0	
f = 500MHz	dB		19.5	
P _{1dB}	dBm		+19	
IP3	dBm		+35	
Noise Figure	dB		0.5	
Reverse Isolation	dB		-28	
VSWR				
Input VSWR			1.5:1	
Output VSWR			1.9:1	
DC Power Supply	V	3	5	5.5
Supply Current	mA		100	

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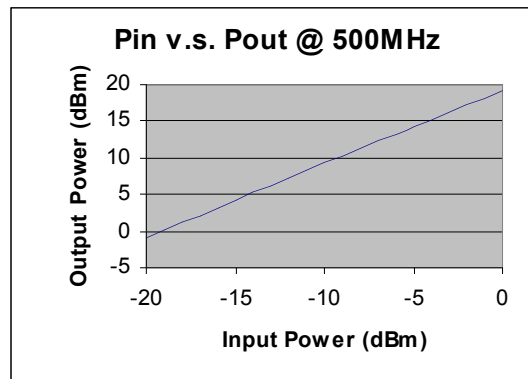
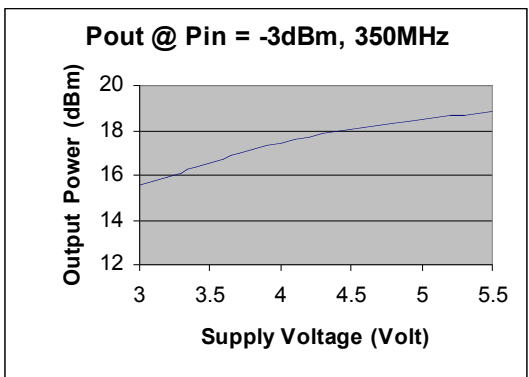
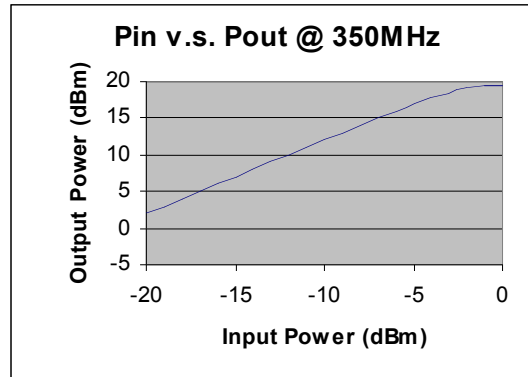
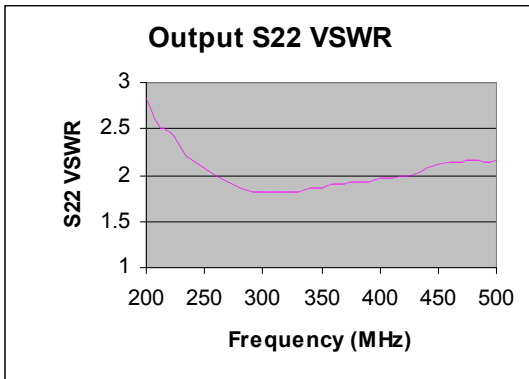
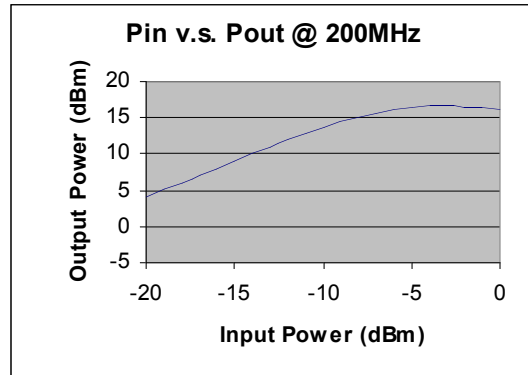
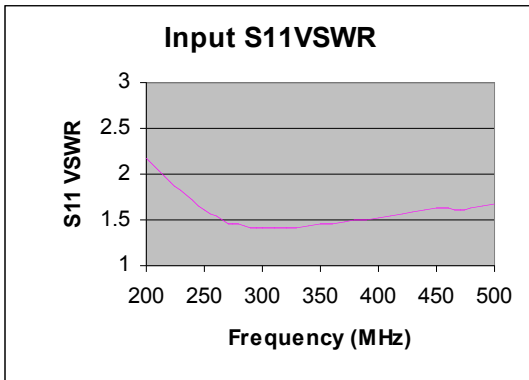
Typical Performance @ +25 °C



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Typical Performance @ +25 °C



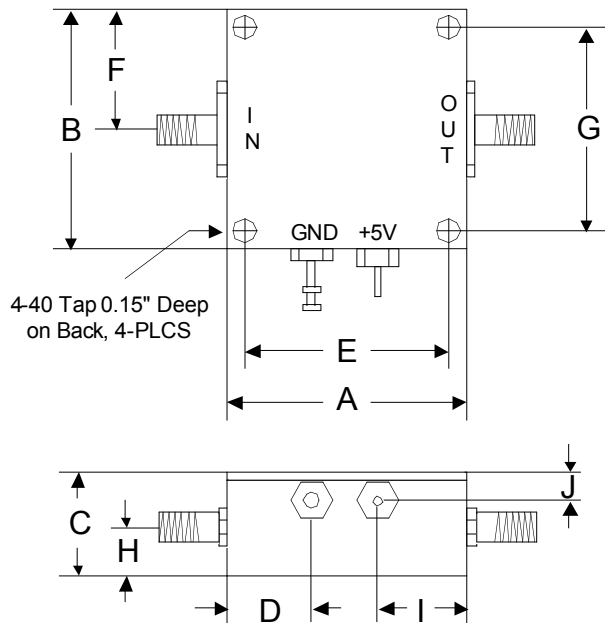
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Absolute Maximum Ratings

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