

HD27131

750–950MHz Low Noise Amplifier

Features

- Frequency Range: 750 - 950MHz
- Gain: 17dB
- P_{1dB}: +16.5dBm
- IP3: +30dBm
- Noise Figure: 1.2dB
- DC Power: 5V/60mA
- SMA Connector



Performance measured @ 850MHz

Description

HD27131 is a 1.2dB Noise Figure Low Noise Amplifier operates in wideband with frequency range from 750MHz to 950MHz.

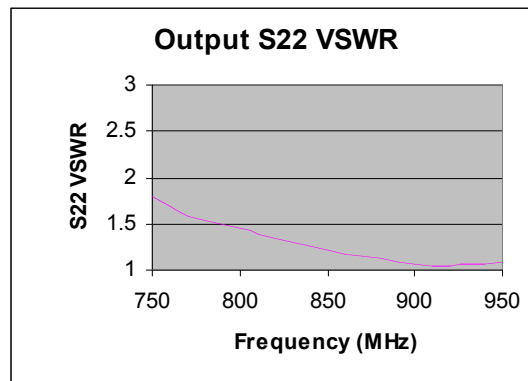
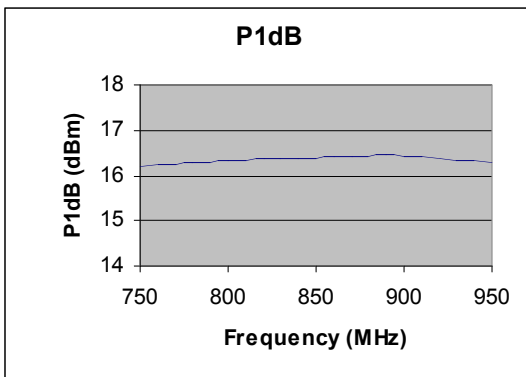
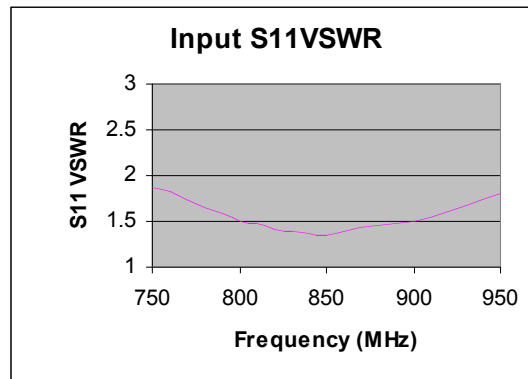
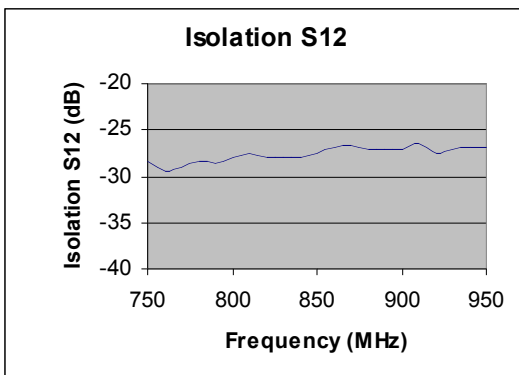
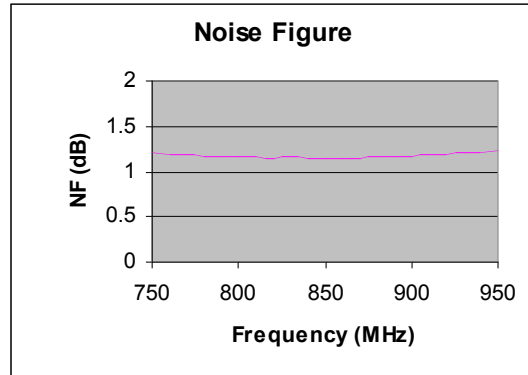
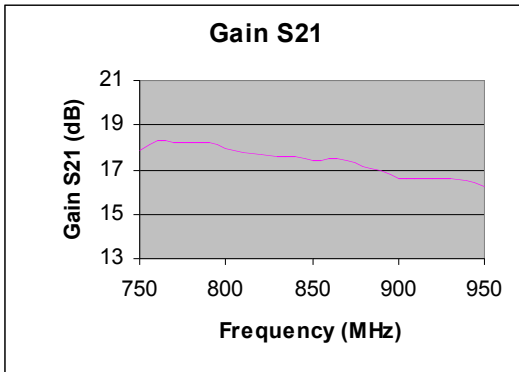
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = 5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	750		850
Gain				
f = 750MHz	dB		17.8	
f = 850MHz	dB		17.0	
f = 950MHz	dB		16.3	
P _{1dB}	dBm		+16.5	
IP3	dBm		+30	
Noise Figure	dB		1.2	
Reverse Isolation	dB		-27	
VSWR				
Input VSWR			1.4:1	
Output VSWR			1.2:1	
DC Power Supply	V	3	5	6
Supply Current	mA		60	

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Typical Performance @ +25 °C



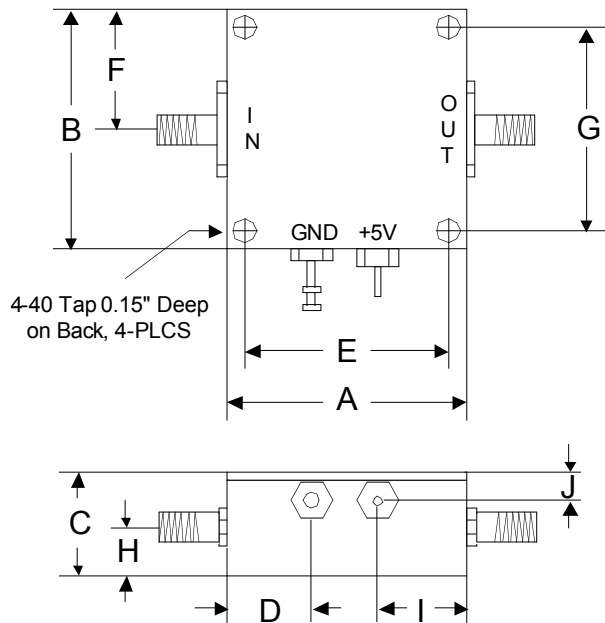
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
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