

HD27133

1400–2000MHz Low Noise Amplifier

Features

- Frequency Range: 1.4 – 2.0GHz
- Gain: 16.5dB
- P_{1dB}: +16dBm
- IP3: +29dBm
- Noise Figure: 1.4dB
- DC Power: 5V/50mA
- SMA Connector

with frequency range from 1400MHz to 2000MHz.

Performance measured @ 1.7GHz

Description

HD27133 is a 1.4dB Noise Figure Low Noise Amplifier operates in wideband



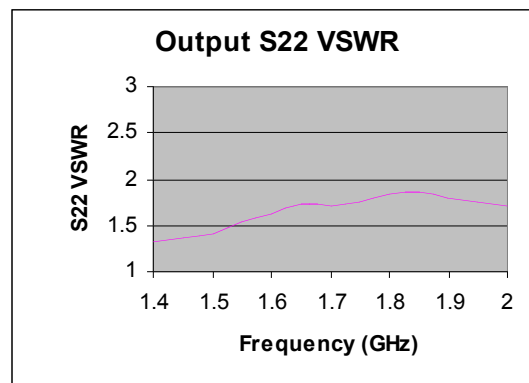
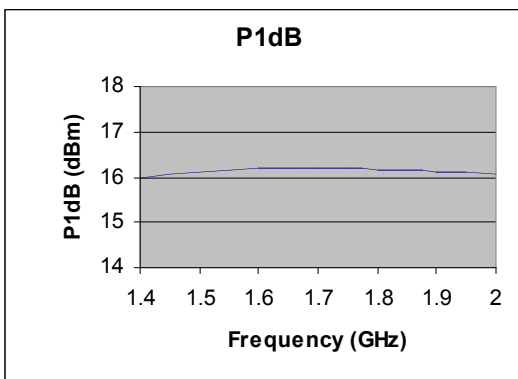
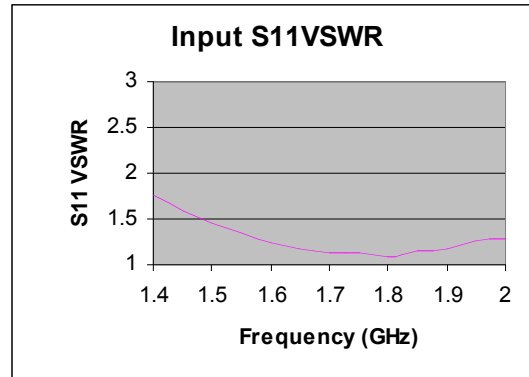
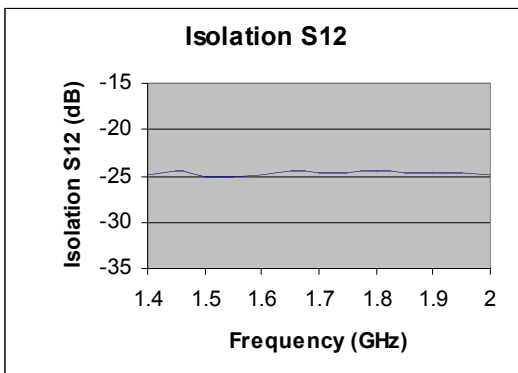
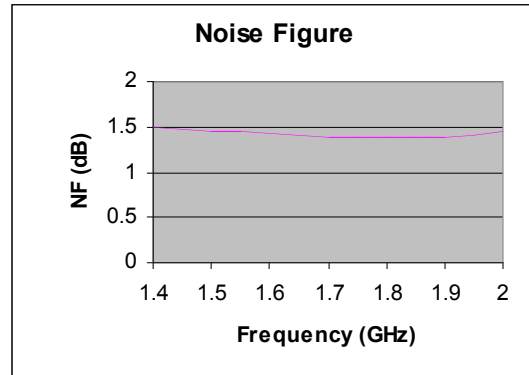
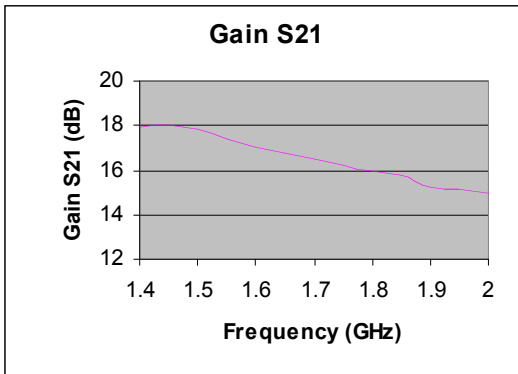
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = 5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	1.4		2.0
Gain				
f = 1.4GHz	dB		17.5	
f = 1.7GHz	dB		16.0	
f = 2.0GHz	dB		15.0	
P _{1dB}	dBm		+16	
IP3	dBm		+29	
Noise Figure	dB		1.4	
Reverse Isolation	dB		-24	
VSWR				
Input VSWR			1.2:1	
Output VSWR			1.7:1	
DC Power Supply	V	3	5	6
Supply Current	mA		50	

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Typical Performance @ +25 °C



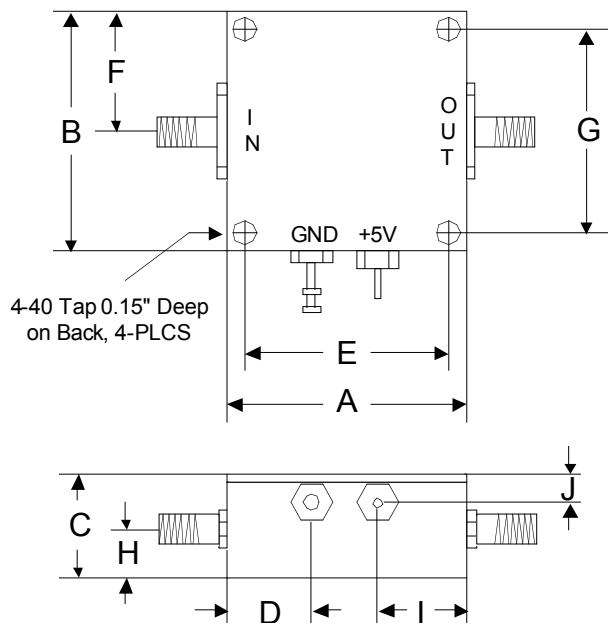
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Absolute Maximum Ratings

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