

## HD27134

## 1650–2250MHz Low Noise Amplifier

### Features

- Frequency Range: 1650 - 2250MHz
- Gain: 18dB
- P<sub>1dB</sub>: +20dBm
- IP3: +36dBm
- Noise Figure: 0.8dB
- DC Power: 5V/115mA
- SMA Connector

Performance measured @ 1950MHz



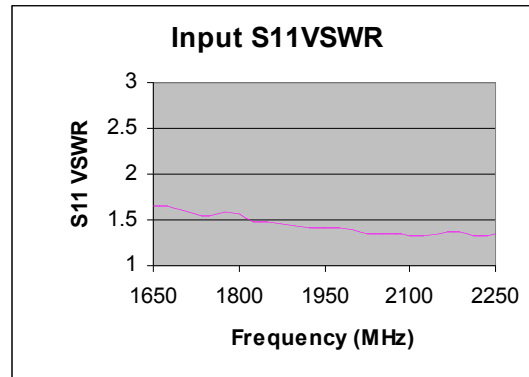
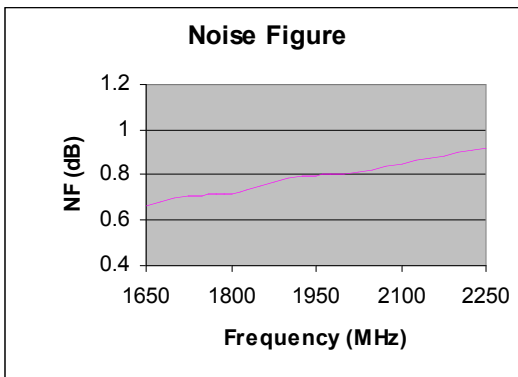
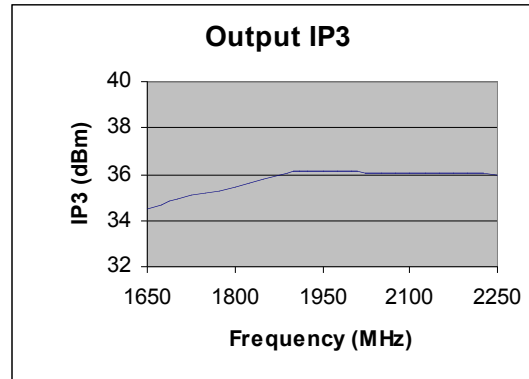
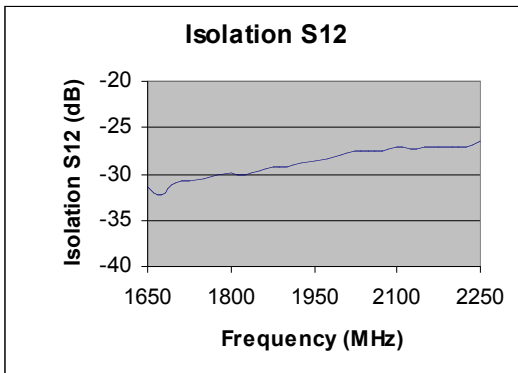
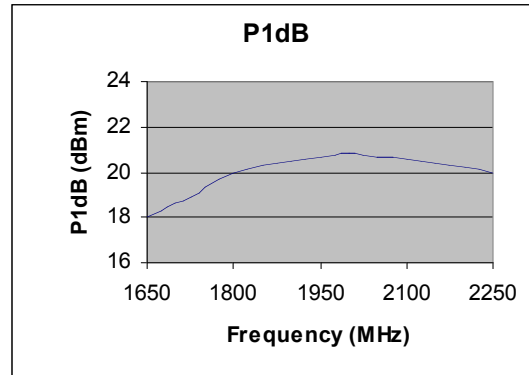
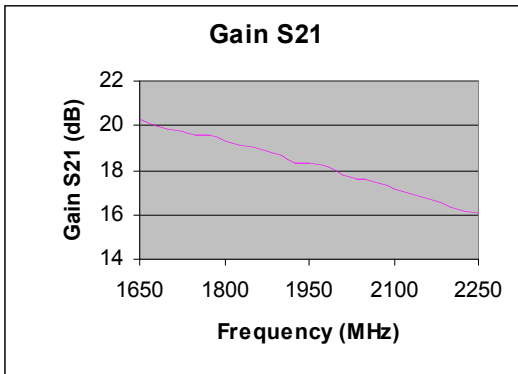
### Description

HD27134 is a 0.8dB Noise Figure Low Noise Amplifier operates in wideband with frequency range from 1650MHz to 2250MHz.

### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>cc</sub> = 5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	550		1300
Gain				
f = 1650MHz	dB		20.0	
f = 1800MHz	dB		19.3	
f = 1950MHz	dB		18.0	
f = 2100MHz	dB		17.0	
f = 2250MHz	dB		16.0	
P <sub>1dB</sub>	dBm		+20	
IP3	dBm		+36	
Noise Figure	dB		0.8	
Reverse Isolation	dB		-28	
VSWR				
Input VSWR			1.4:1	
Output VSWR			1.3:1	
DC Power Supply	V	3	5	5.5
Supply Current	mA		115	

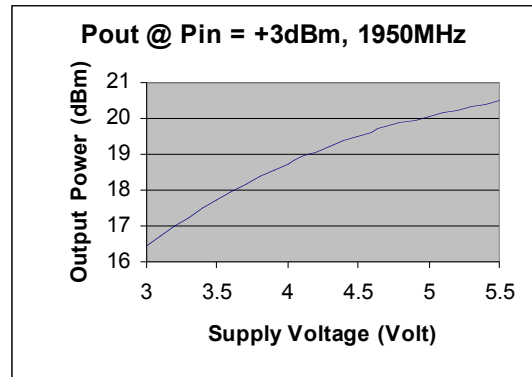
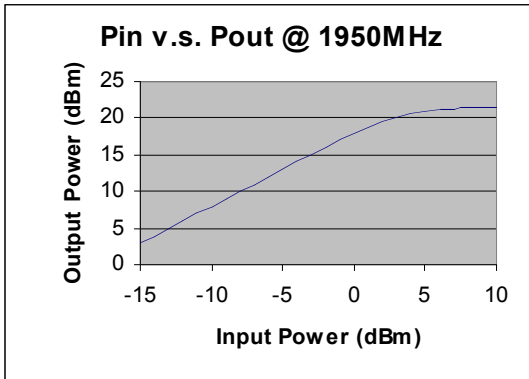
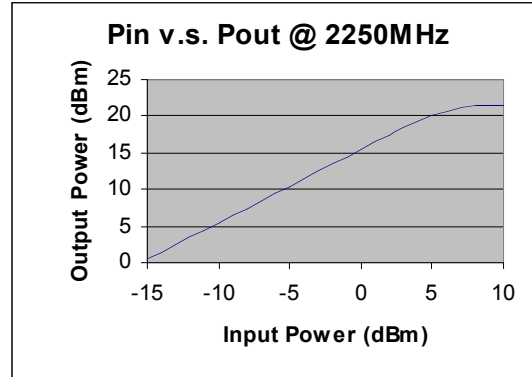
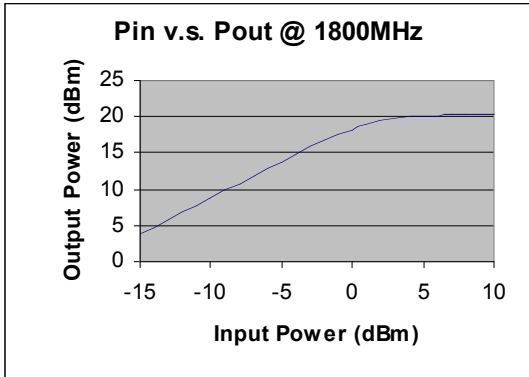
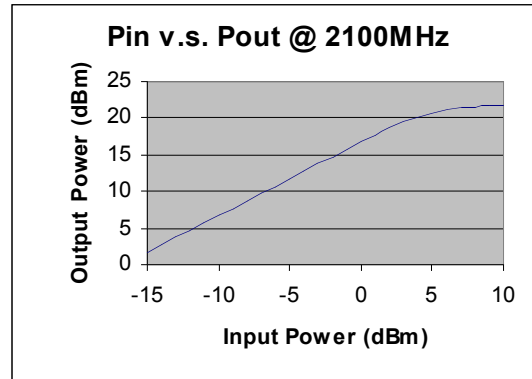
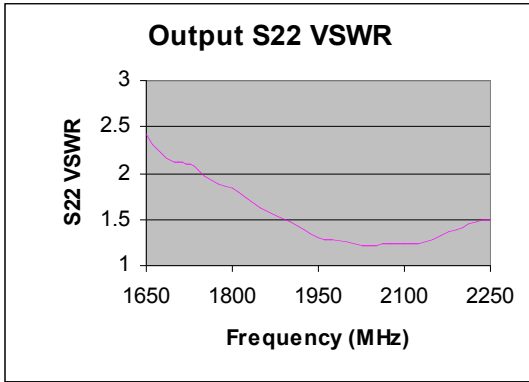
**Typical Performance @ +25 °C**



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**1650–2250MHz Low Noise Amplifier**

**Typical Performance @ +25 °C**



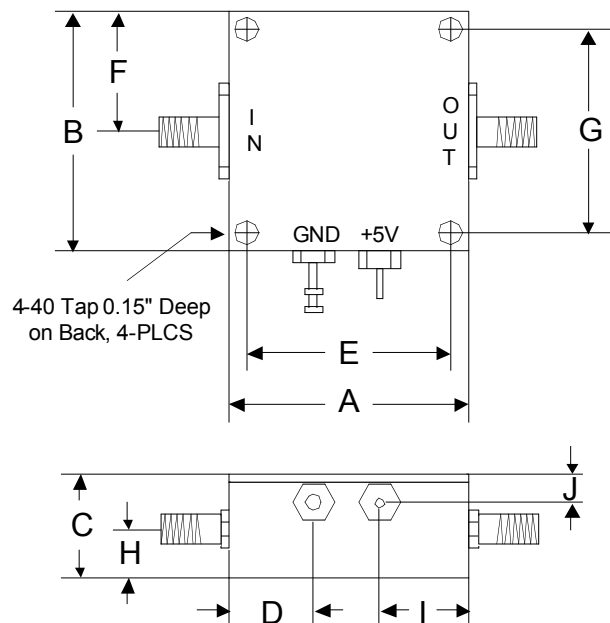
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### Absolute Maximum Ratings

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
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76