

HD27034

800MHz–1000Mhz, 800mW RF Amplifier

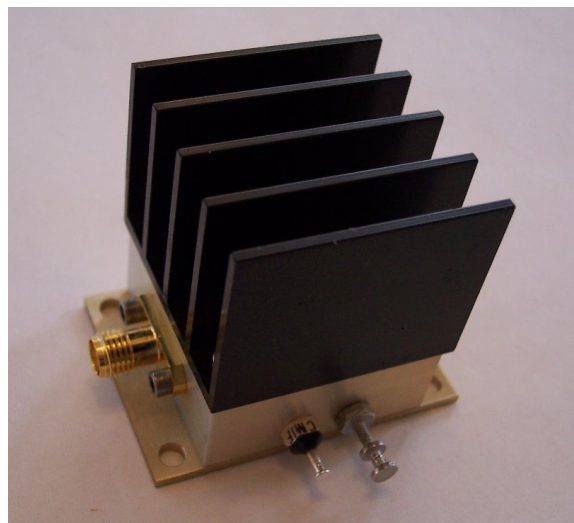
Features

- Frequency Range: 800-1000MHz
- Gain: 15dB
- P_{out} : +29dBm
- IP3: +47dBm
- Noise Figure: 8dB
- Input VSWR: 1.2:1
- DC Power: 5V
- SMA Connector

Performance Tested @ 900MHz

Description

HD27034 is +29dBm (800mW) output RF Amplifier operates with frequency range from 800MHz to 1000MHz.



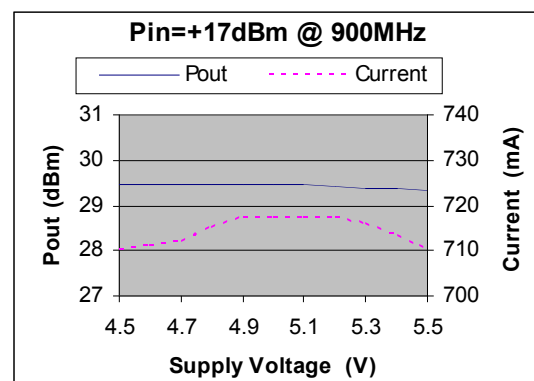
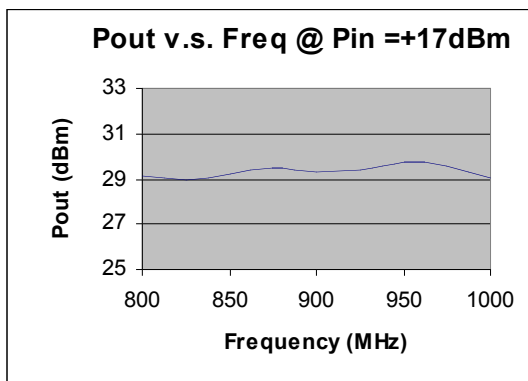
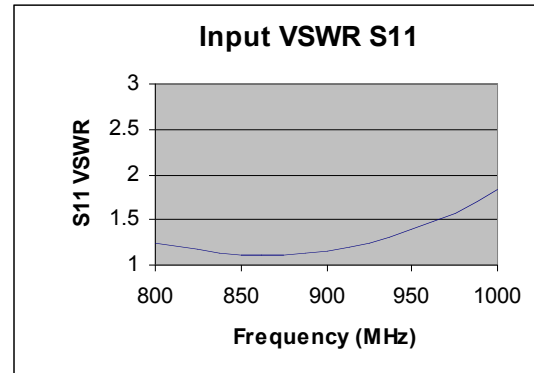
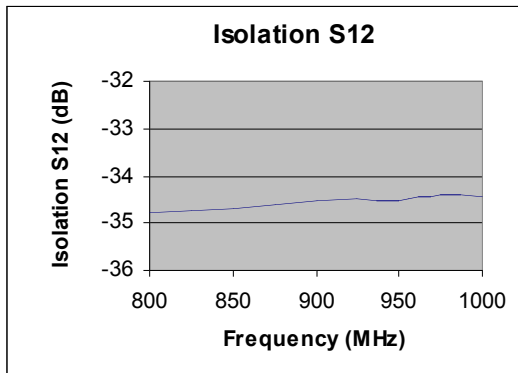
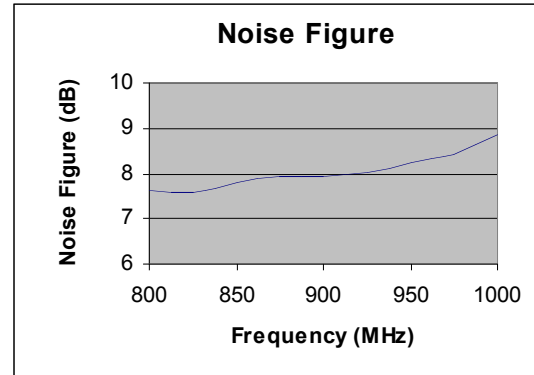
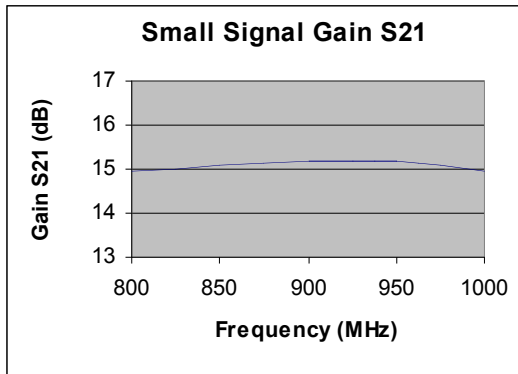
Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \Omega$, $V_{cc}=+5V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	800		1000
Small Signal Gain $f = 800\text{MHz}$	dB		15.0	
$f = 850\text{MHz}$	dB		15.0	
$f = 900\text{MHz}$	dB		15.0	
$f = 950\text{MHz}$	dB		15.0	
$f = 1000\text{MHz}$	dB		15.0	
Gain Flatness	dB		± 0.2	
P_{out} @ $P_{in} = +2\text{dBm}$	dBm		+29	
OIP3	dBm		+47	
Noise Figure at 900MHz	dB		8	
Reverse Isolation	dB		-34	
VSWR Input			1.3:1	
DC Power Supply	V	4.5	5.0	5.5
Supply Current Quiescent (no RF)	mA		300	
@ $P_{out} = +29\text{dBm}$	mA		700	

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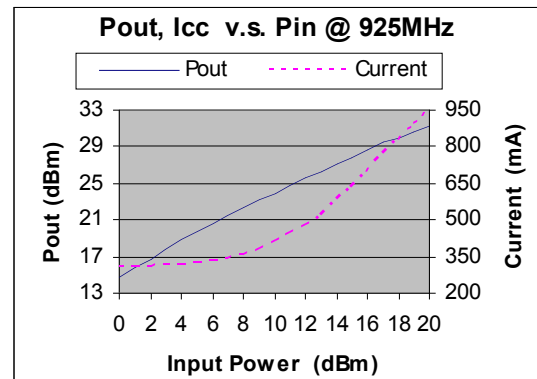
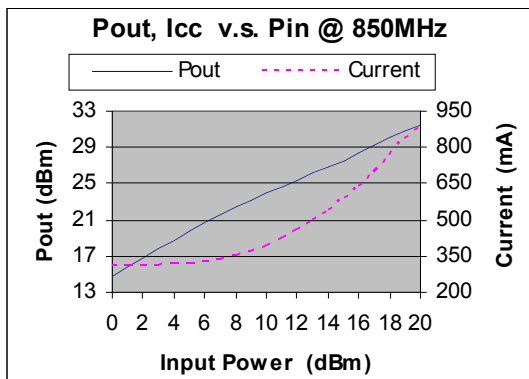
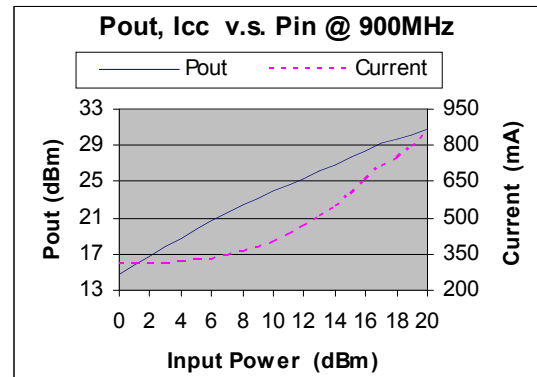
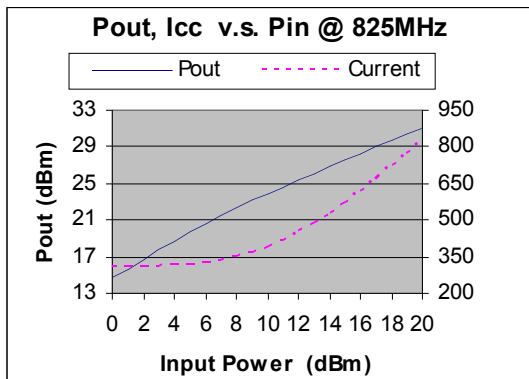
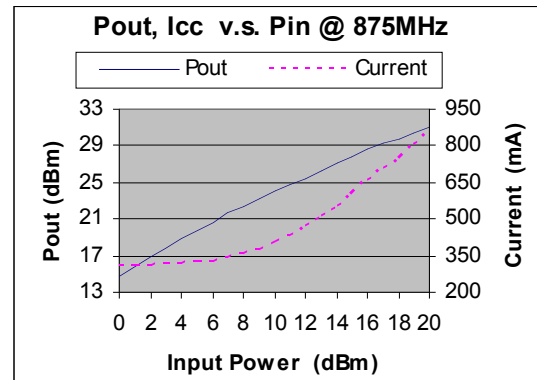
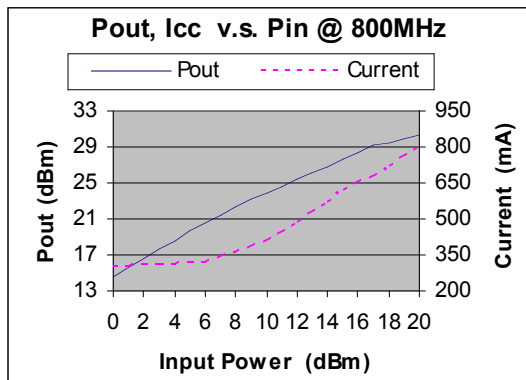
Typical Performance @ +25 °C



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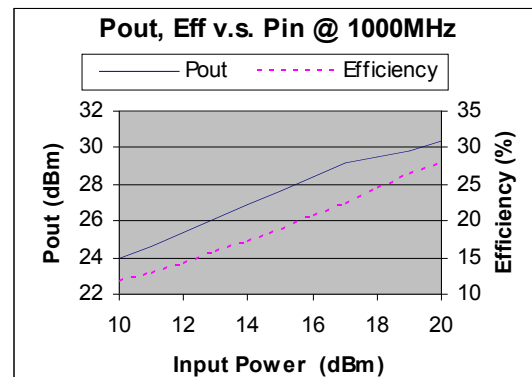
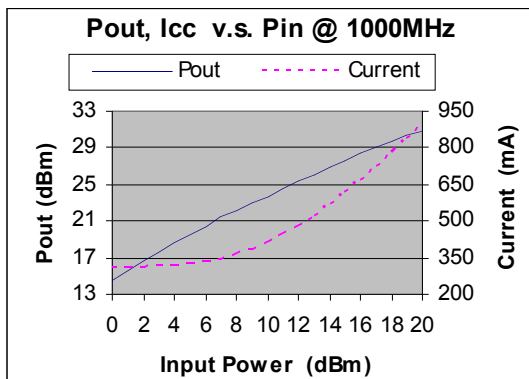
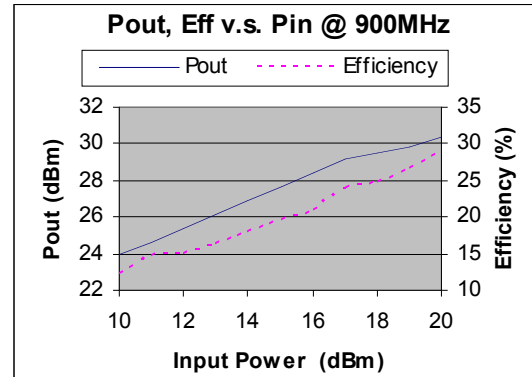
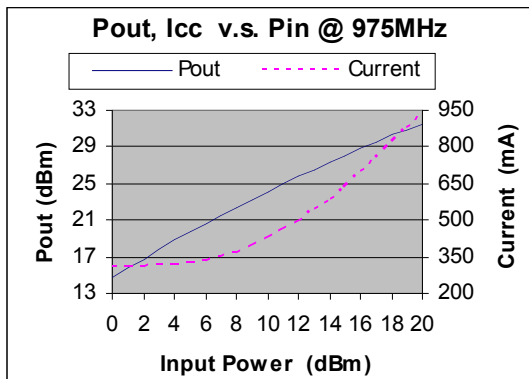
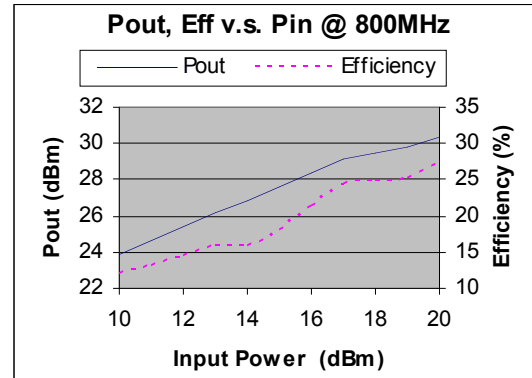
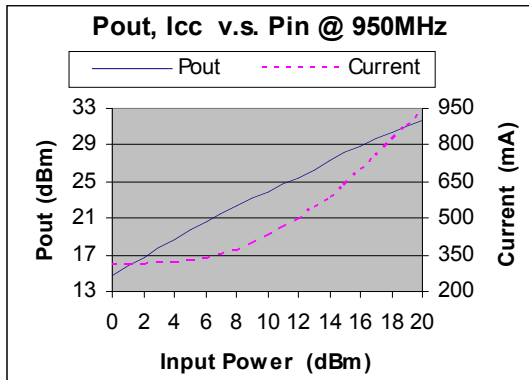
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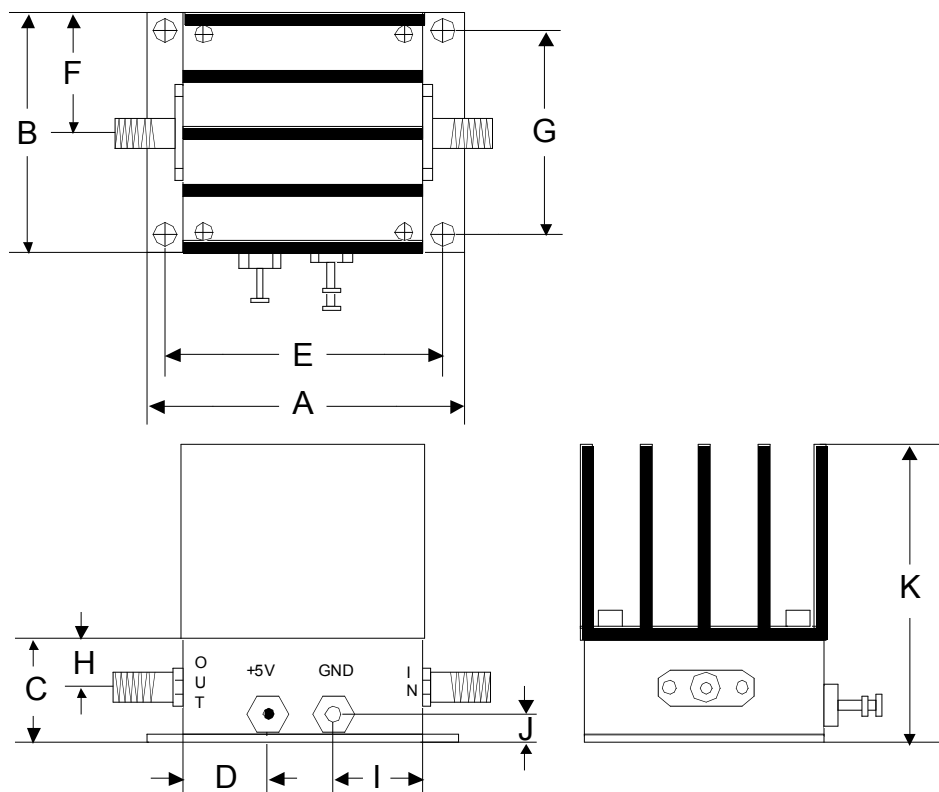
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+24dBm
Supply Voltage	+6V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

Outline



	A	B	C	D	E	F	G	H	I	J	K
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187	1.563
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76	39.70