

HD27032

800MHz–1000Mhz RF Amplifier

Features

- Frequency Range: 800-1000MHz
- Gain: 18.5dB
- P_{1dB} : +27dBm
- IP3: +37dBm
- Noise Figure: 4.2dB
- DC Power: 5V
- SMA Connector

Performance at 900MHz

Description

HD27032 is a 500mW RF Amplifier operates with frequency range from 800 to 1000MHz.



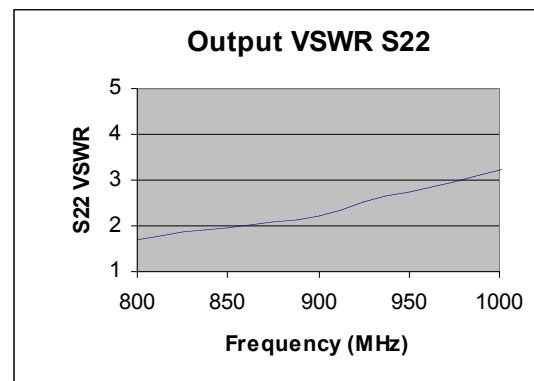
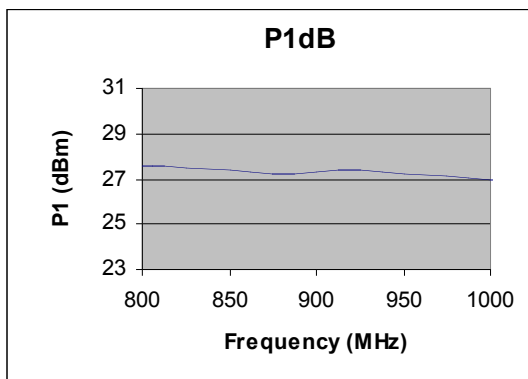
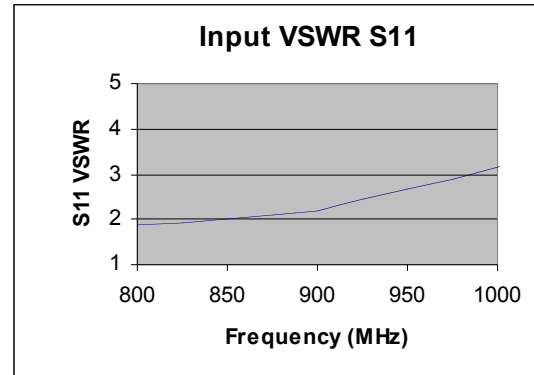
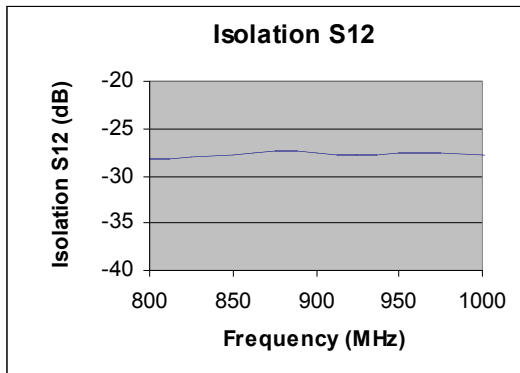
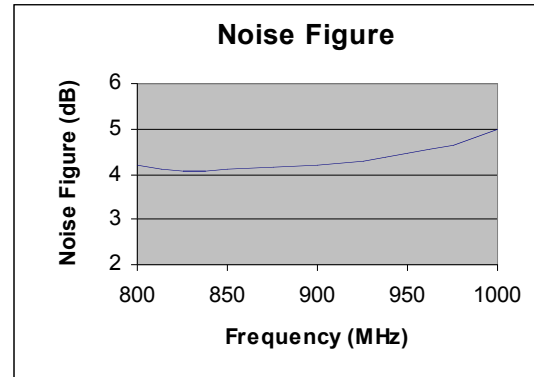
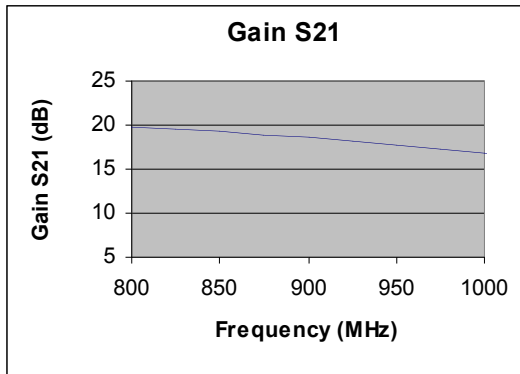
Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \Omega$, $V_{CC}=+5V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	800		1000
Gain $f = 800\text{MHz}$	dB		19.5	
$f = 850\text{MHz}$	dB		19.0	
$f = 900\text{MHz}$	dB		18.5	
$f = 950\text{MHz}$	dB		17.5	
$f = 1000\text{MHz}$	dB		16.5	
P_{1dB}	dBm		+27	
IP3	dBm		+37	
Noise Figure	dB		4.2	5.0
Reverse Isolation	dB		-27	
VSWR Input VSWR			2.2:1	
Output VSWR			2.2:1	
DC Power Supply	V	4.5	5.0	5.5
Supply Current Quiescent (no RF)	mA		100	
@ $P_{1dB} = +27\text{dBm}$	mA		250	

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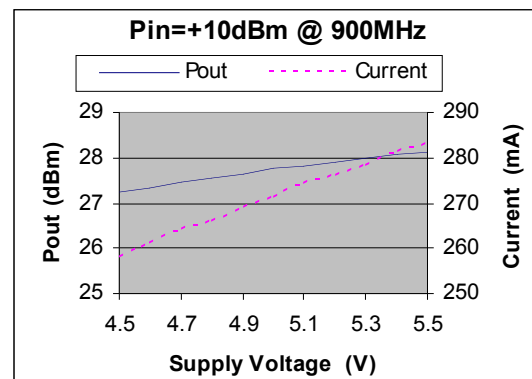
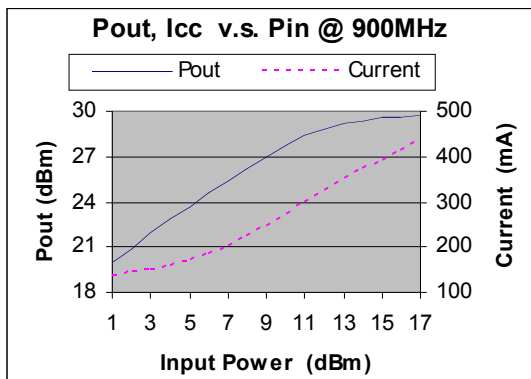
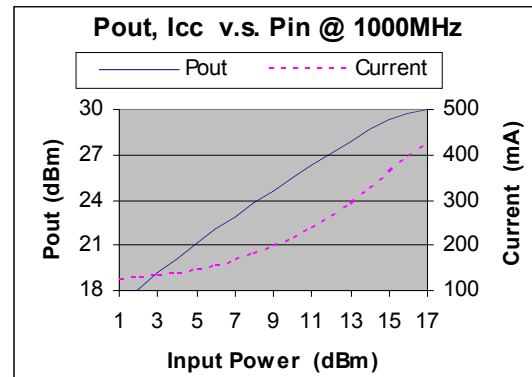
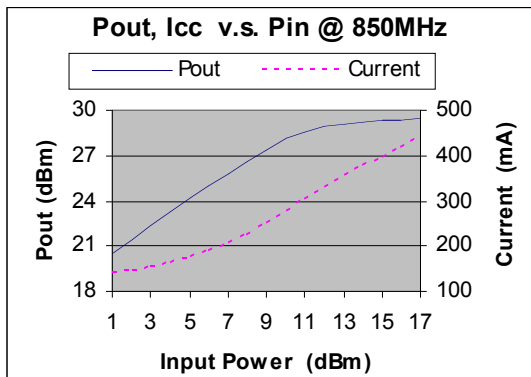
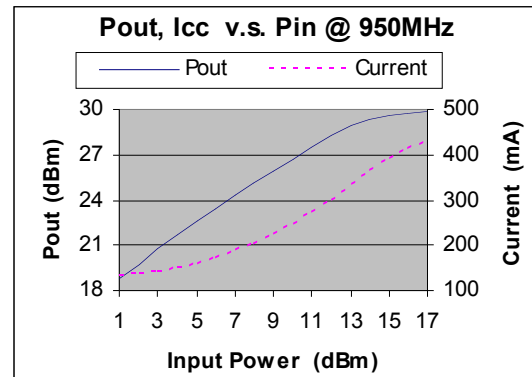
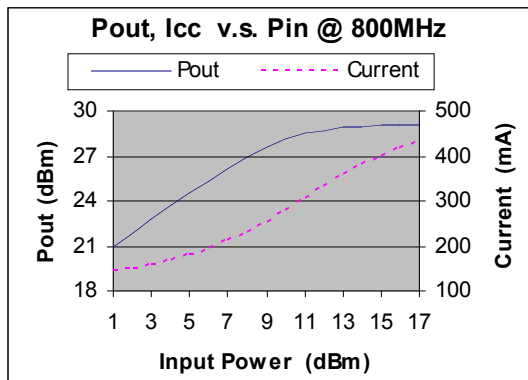
Typical Performance @ +25 °C



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Typical Performance @ +25 °C



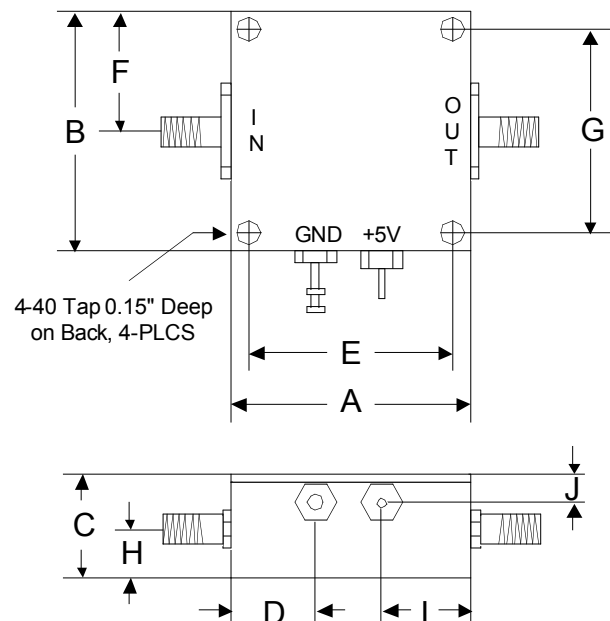
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+6.0V
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
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