

HD24406

40 – 3000MHz 3V Low Noise Amplifier

Features

- Frequency Range: 40-3000MHz
- Gain: 16dB
- P_{1dB}: +8dBm
- IP3: +22dBm
- Noise Figure: 1.3dB
- DC Power: 3V/18mA
- SMA Connector

Performance measured @ 1000MHz

Description

HD24406 is a 3V Low Power 1.3dB Noise Figure Wideband Low Noise Amplifier operates with frequency range usable from 40 to 3000MHz.



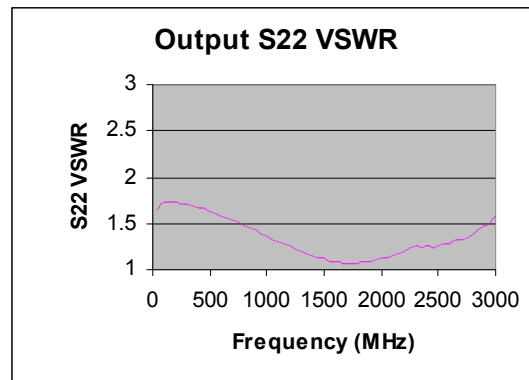
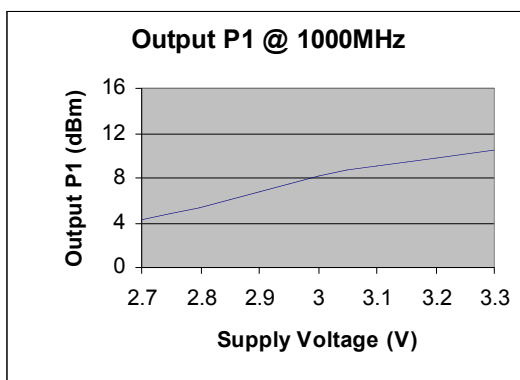
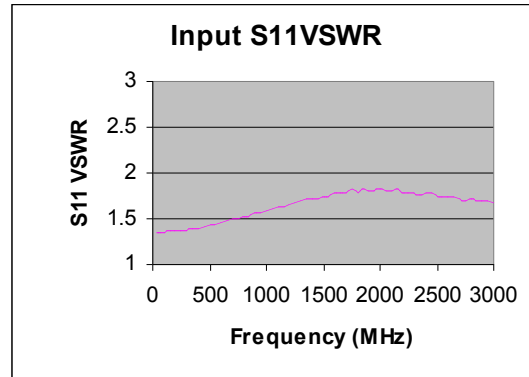
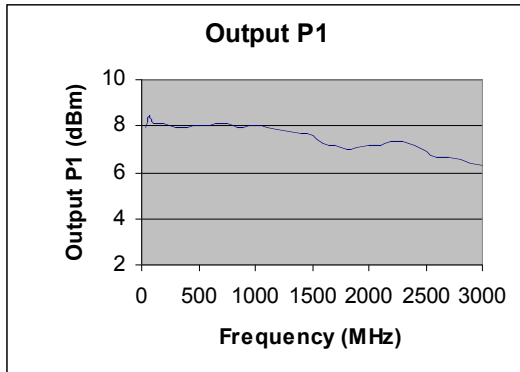
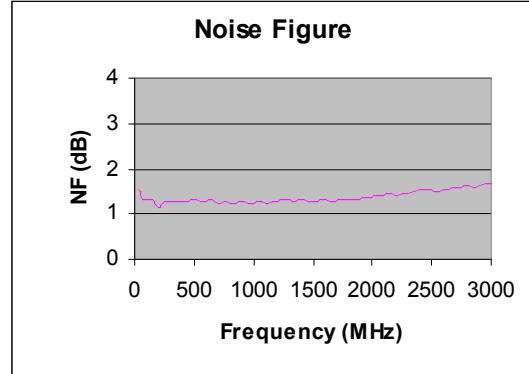
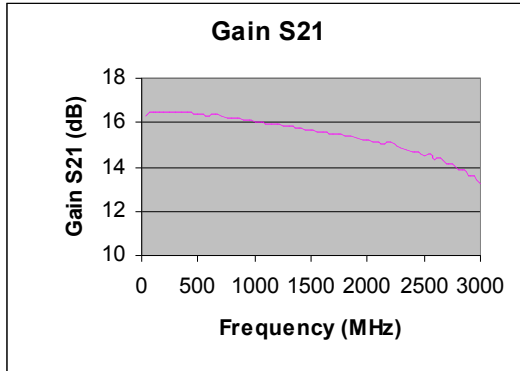
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	40		3000
Gain				
f = 40MHz	dB		16	
f = 1000MHz	dB		16	
f = 2000MHz	dB		15	
f = 3000MHz	dB		13	
P _{1dB}	dBm		+8	
IP3	dBm		+22	
Noise Figure	dB		1.3	
Reverse Isolation	dB		-20	
VSWR				
Input VSWR			1.5:1	
Output VSWR			1.5:1	
DC Power Supply	V	2.7	3.0	3.3
Supply Current	mA		18	

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Typical Performance @ +25 °C



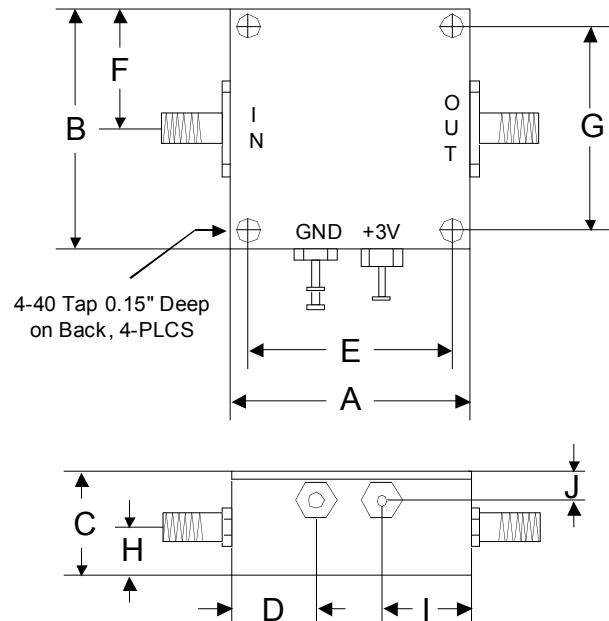
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+7V
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