

HD24222

100 – 6000MHz RF Amplifier

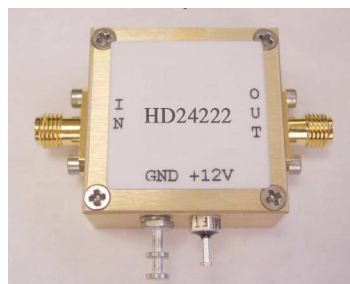
Features

- Frequency Range: 100-6000MHz
- Gain: 34dB
- P_{1dB} : +19dBm
- IP3: +32dBm
- Noise Figure: 4.2dB
- DC Power: 12V
- SMA Connector

Performance measured @ 2000MHz

Description

HD24222 is a wideband, high gain, RF Amplifier that operates with a frequency range from 100MHz to 6000MHz.



Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \text{ Ohms}$

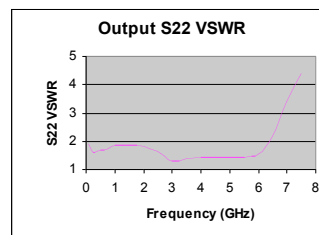
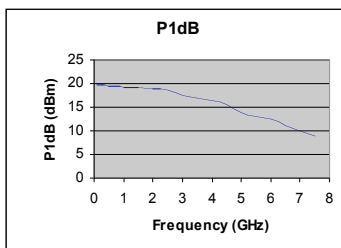
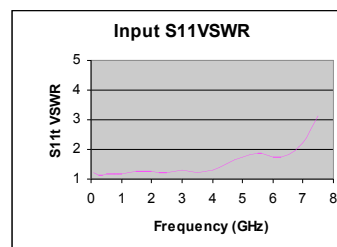
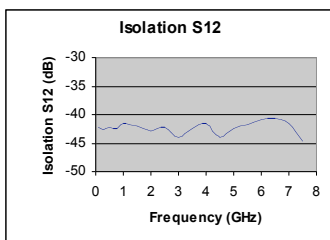
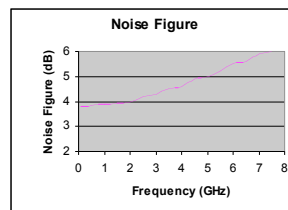
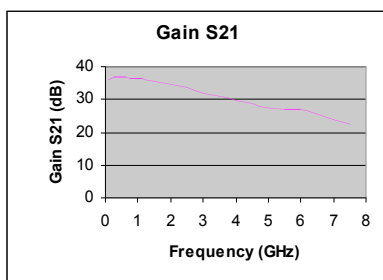
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	100		6000
Gain				
f = 100MHz	dB		35.0	
f = 2000MHz	dB		34.0	
f = 4000MHz	dB		29.0	
f = 6000MHz	dB		26.0	
P_{1dB}				
f = 100MHz	dBm		+19.7	
f = 2000MHz	dBm		+19.0	
f = 4000MHz	dBm		+16.5	
f = 6000MHz	dBm		+12.5	
IP3				
f = 2000MHz	dBm		+32	
Noise Figure				
f = 2000MHz	dB		4.2	
VSWR				
f = 100-6000MHz				

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Input VSWR			2.0:1	
Output VSWR			2.0:1	
DC Power Supply	V	9	12	15
Supply Current	mA		125	

Typical Performance @ +25 °C



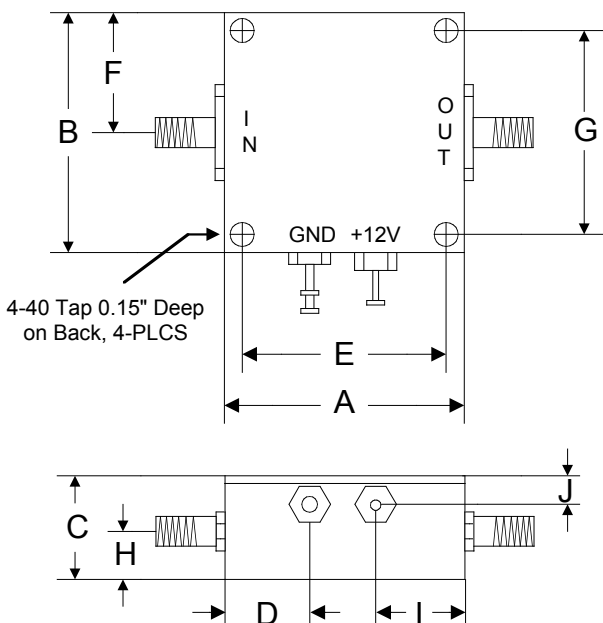
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+16V
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