

HD24632

500 – 1000MHz Low Noise Amplifier

Features

- Frequency Range: 500-1000MHz
- Gain: 35dB
- P_{1dB}: +13dBm
- IP3: +24dBm
- Noise Figure: 1.8dB
- DC Power: 10V-18V/80mA
- SMA Connector



Performance measured @ 750MHz.

Description

HD24632 is a 35dB gain wideband Low Noise Amplifier operates with frequency range from 500 to 1000MHz.

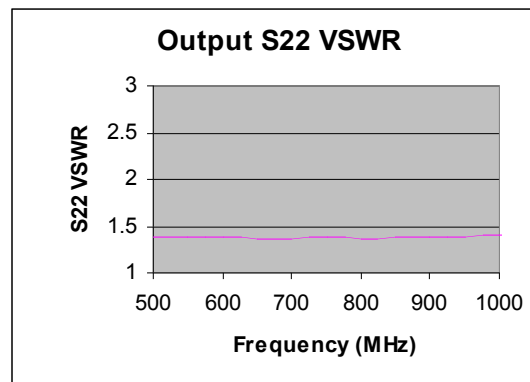
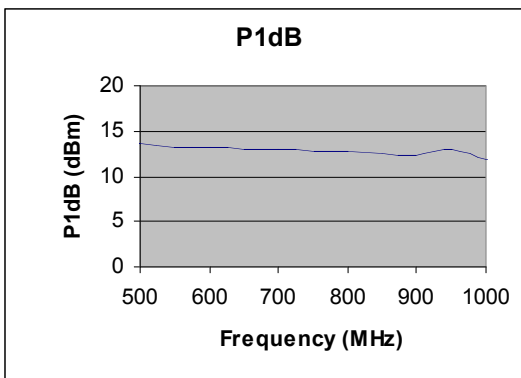
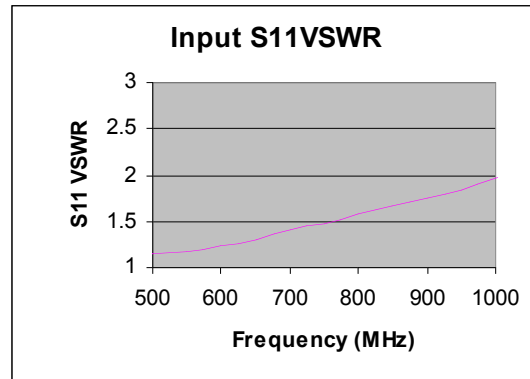
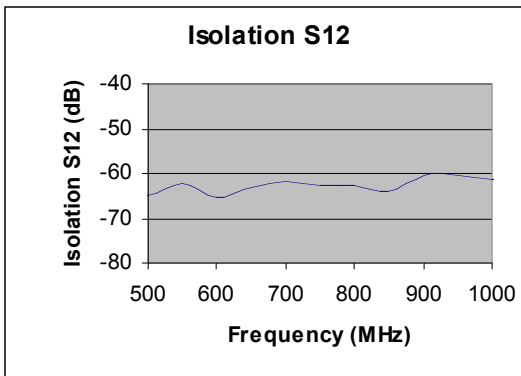
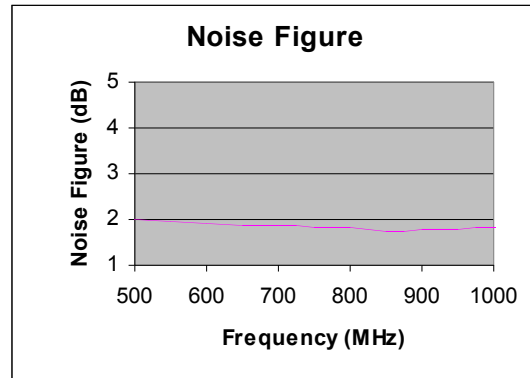
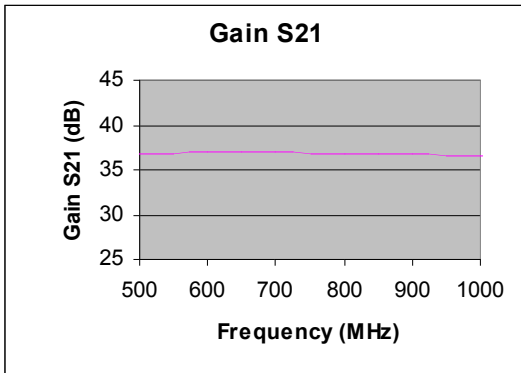
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50Ω, V_{cc} = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	500		1000
Gain	dB	35	36	
Gain Flatness	dB		±0.3	±0.5
P _{1dB}	dBm		+13	
IP3	dBm		+24	
Noise Figure	dB		1.8	2.0
Reverse Isolation	dB		-60	
VSWR				
Input VSWR			1.5:1	
Output VSWR			1.4:1	
DC Power Supply	V	10	12	18
Supply Current	mA		80	

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Typical Performance @ +25 °C



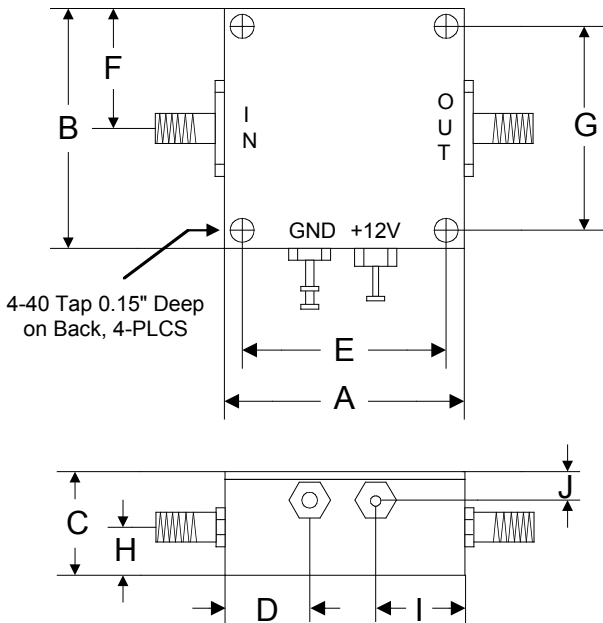
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+25V
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



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