
HD24634 10KHz – 2000MHz Low Noise Amplifier

Features

- Frequency: 10KHz - 2000MHz
- Gain: 26dB
- P_{1dB}: +10dBm
- IP3: +23dBm
- Noise Figure: 3.2dB
- DC Power: 12V/45mA
- SMA Connector

Performance measured @ 1000MHz

Description

HD24634 is a wideband Low Noise Amplifier operates with frequency range from 10KHz to 2000MHz.



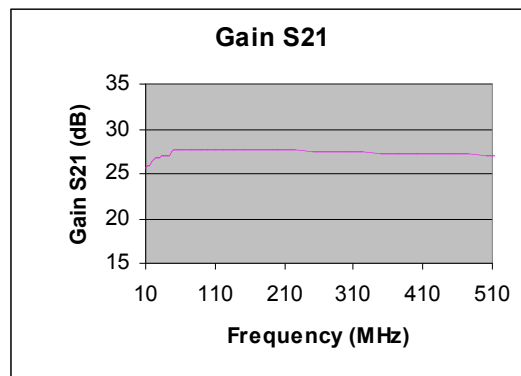
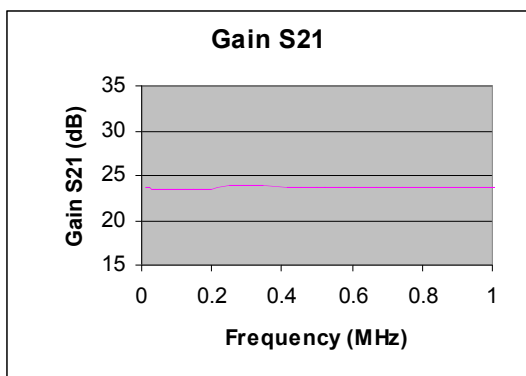
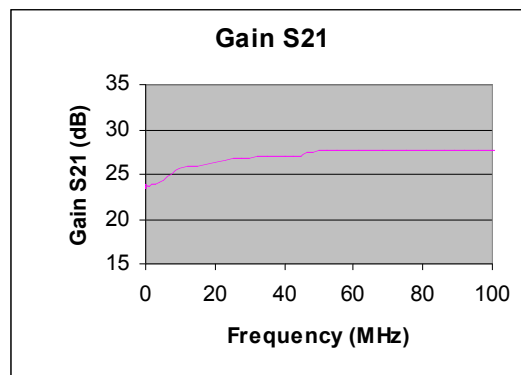
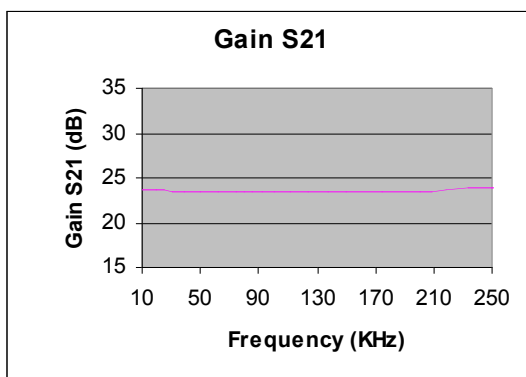
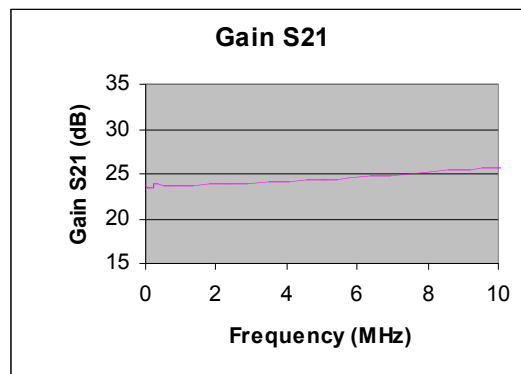
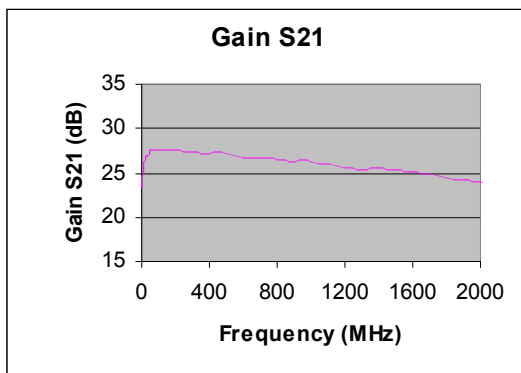
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.01		2000
Gain f = 10KHz	dB		23.7	
f = 1000MHz	dB		26.0	
f = 2000MHz	dB		24.0	
P _{1dB} f = 10KHz	dBm		+12	
f = 1000MHz	dBm		+12	
f = 2000MHz	dBm		+9	
IP3 f= 1000MHz	dBm		+23	
Reserve Isolation f=1000MHz	dB		-35	
Noise Figure f = 10KHz	dB		2.8	
f = 1000MHz	dB		3.2	
f = 2000MHz	dB		4.0	
VSWR Input VSWR			1.5:1	
Output VSWR			1.4:1	
DC Power Supply	V	10	12	18
Supply Current	mA		45	

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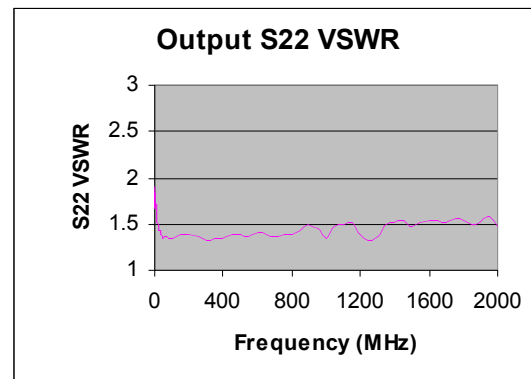
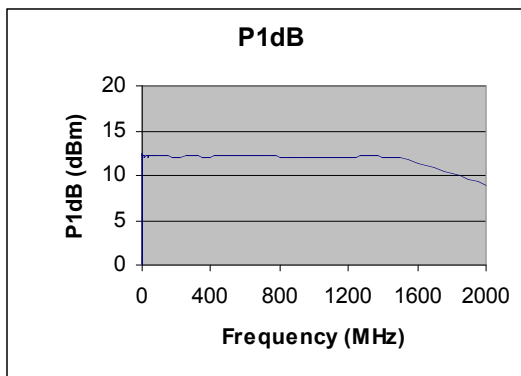
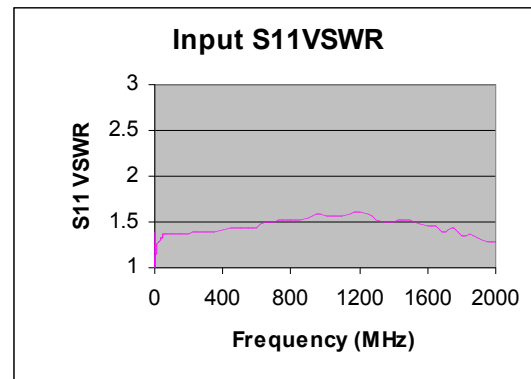
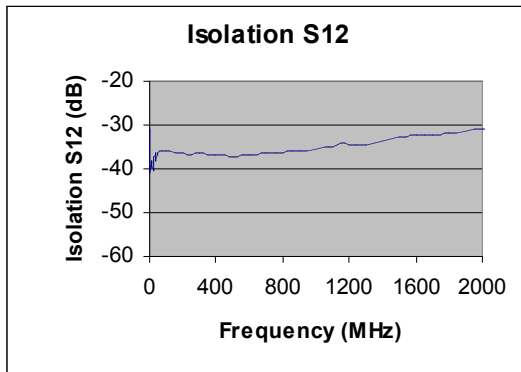
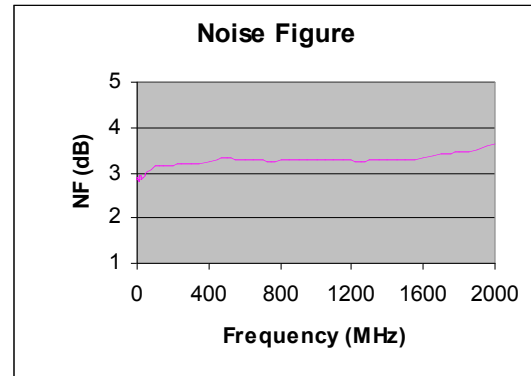
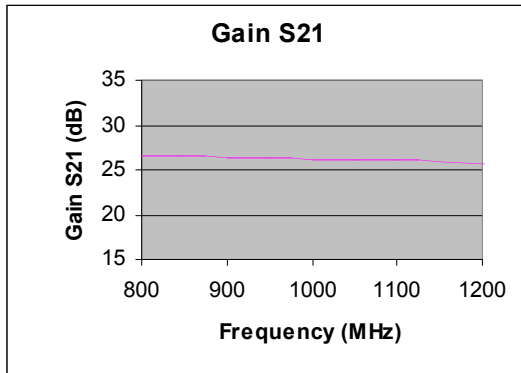
Typical Performance @ +25 °C



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Typical Performance @ +25 °C

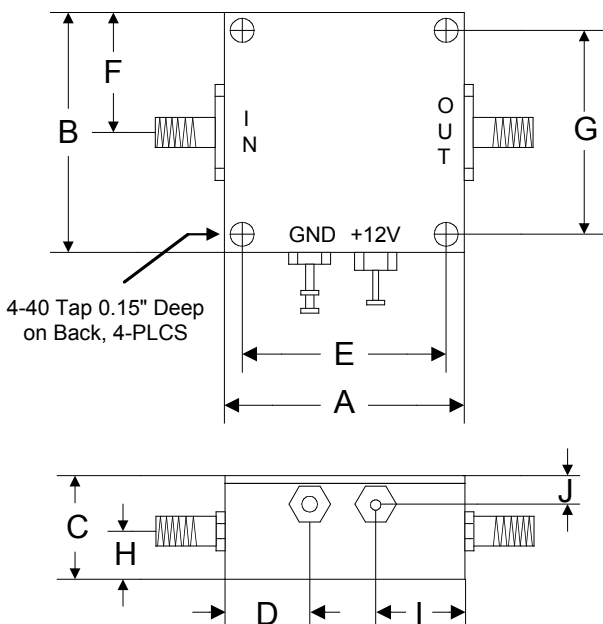


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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+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