

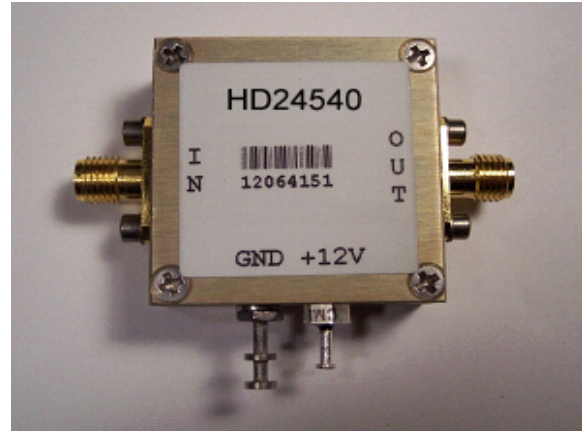
HD24540

10KHz–1450MHz Low Noise Amplifier

Features

- Frequency: 10KHz - 1450MHz
- Gain: 30dB
- P_{1dB}: +9dBm
- IP3: +21dBm
- Noise Figure: 2.0dB
- DC Power: 12V/35mA
- SMA Connector

Performance measured @ 1000MHz



Description

HD24540 is a wideband Low Noise Amplifier operates with frequency range from 10KHz to 1450MHz.

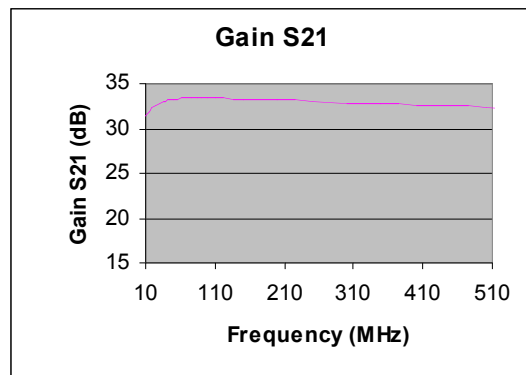
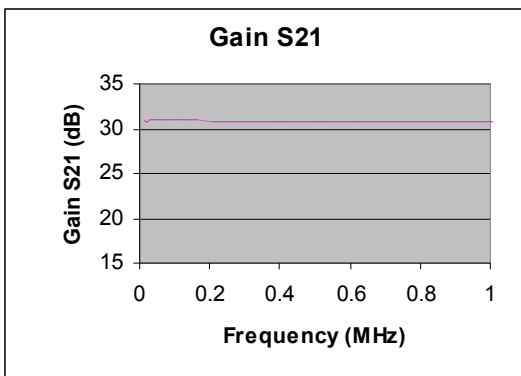
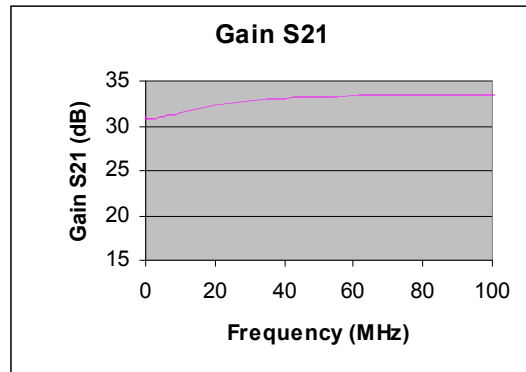
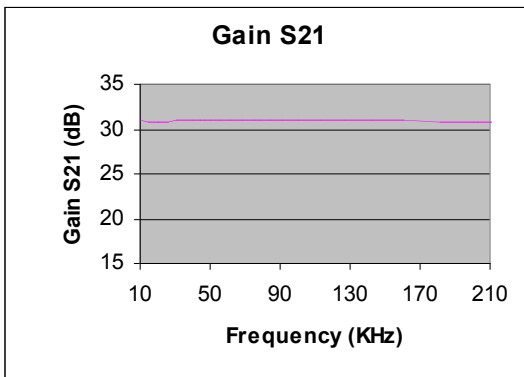
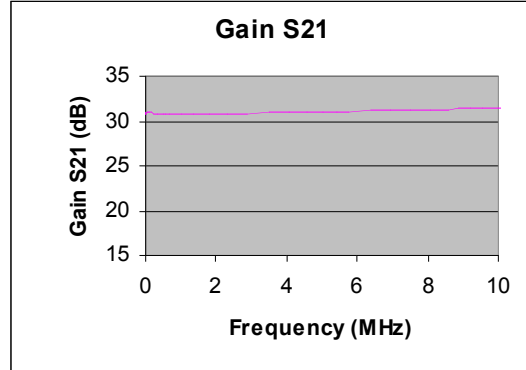
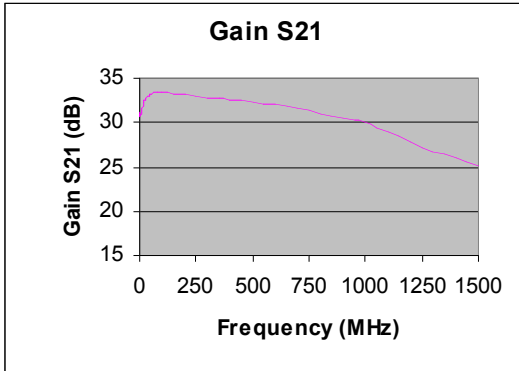
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.01		1450
Gain	f = 10KHz	dB	31.0	
	f = 1000MHz	dB	30.0	
	f = 1450MHz	dB	25.5	
P _{1dB}	f = 10KHz	dBm	+11	
	f = 1000MHz	dBm	+9	
	f = 1450MHz	dBm	+7	
IP3	f= 1000MHz	dBm	+21	
Reserve Isolation	f=1000MHz	dB	-35	
Noise Figure	f = 10KHz	dB	1.8	
	f = 1000MHz	dB	2.0	
	f = 1450MHz	dB	2.5	
VSWR	Input VSWR		1.5:1	
	Output VSWR		1.8:1	
DC Power Supply	V	10	12	18
Supply Current	mA		35	

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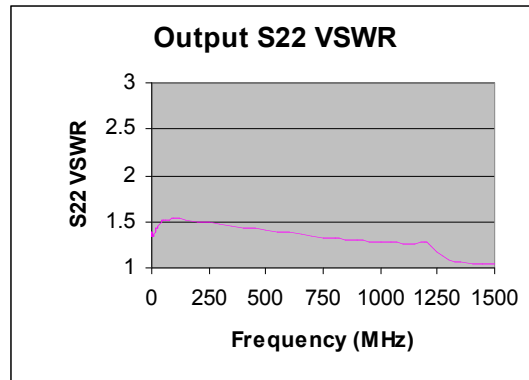
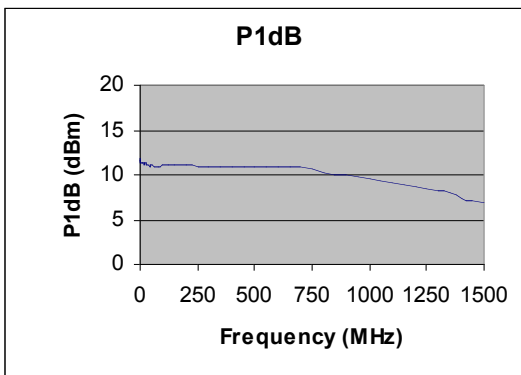
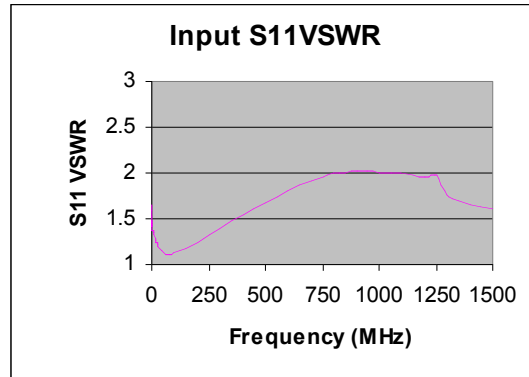
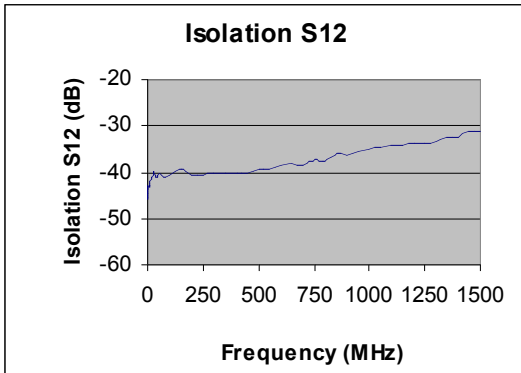
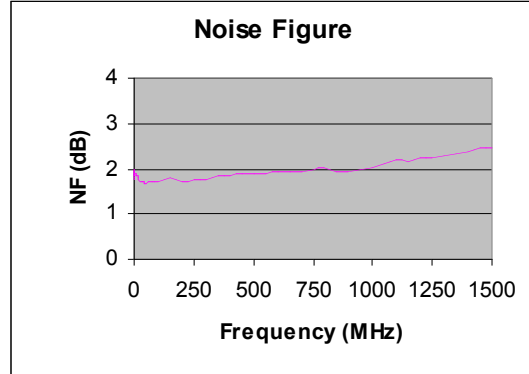
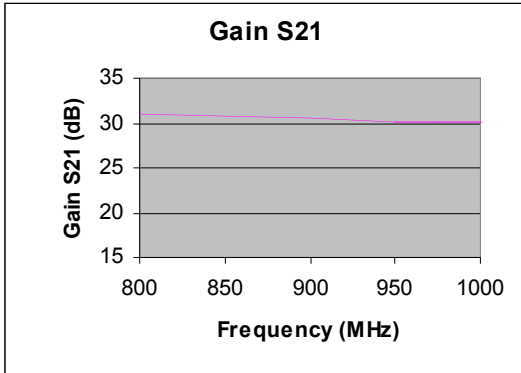
Typical Performance @ +25 °C



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Typical Performance @ +25 °C



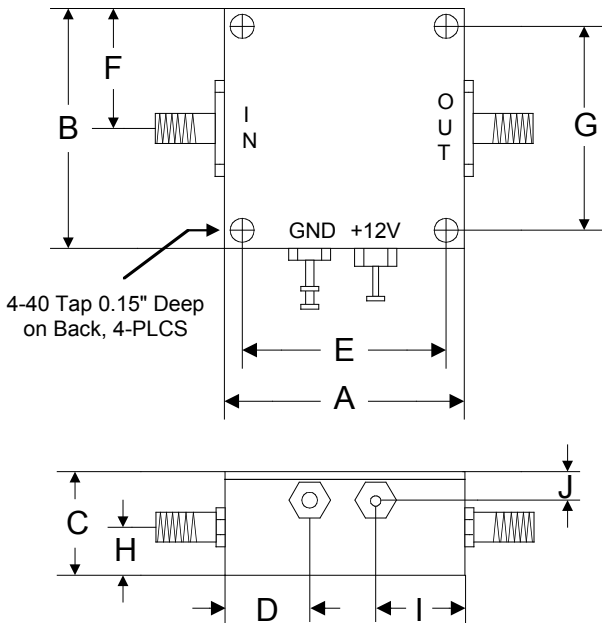
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10KHz–1450MHz Low Noise Amplifier

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