

HD24394

1215 – 1240MHz Low Noise Amplifier

Features

- Frequency Range: 1215-1240MHz
- Gain: 21dB
- P_{1dB}: +12dBm
- IP3: +24dBm
- Noise Figure: 1.2dB
- DC Power: 6 - 24V
- SMA Connector



Performance measured @ 1227MHz

Description

HD24394 is a 1.2dB Noise Figure Low Noise Amplifier operates in GPS band with frequency range from 1215 to 1240MHz.

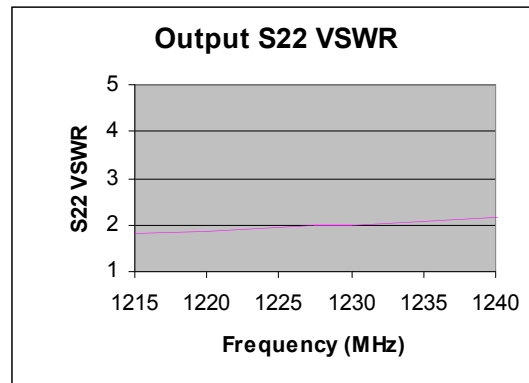
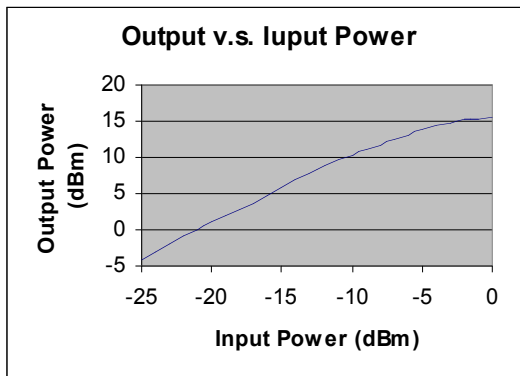
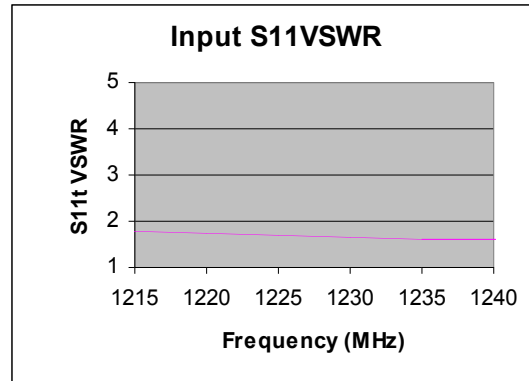
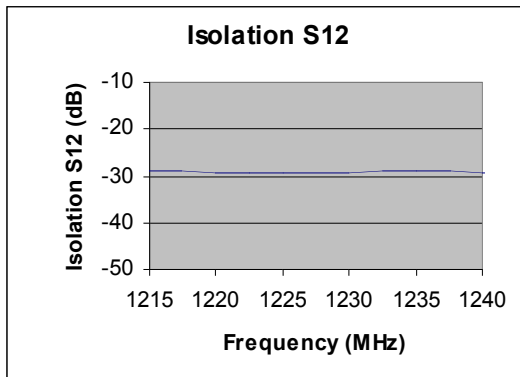
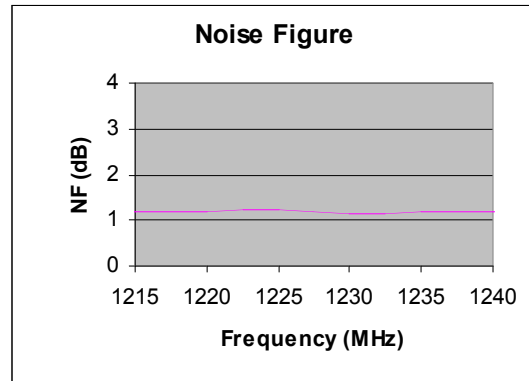
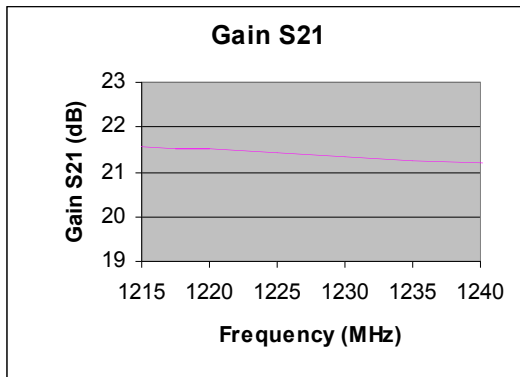
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1215		1240
Gain	f = 1215MHz		21	
	f = 1227MHz	19	21	
	f = 1240MHz		21	
P _{1dB}	f = 1227MHz		+12	
IP3	f = 1227MHz		+24	
Noise Figure			1.2	1.3
Reverse Isolation			-29	
VSWR	f = 1227MHz			
	Input VSWR		1.7:1	
	Output VSWR		1.9:1	
DC Power Supply	V	6	12	24
Supply Current	mA		25	

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Typical Performance @ +25 °C



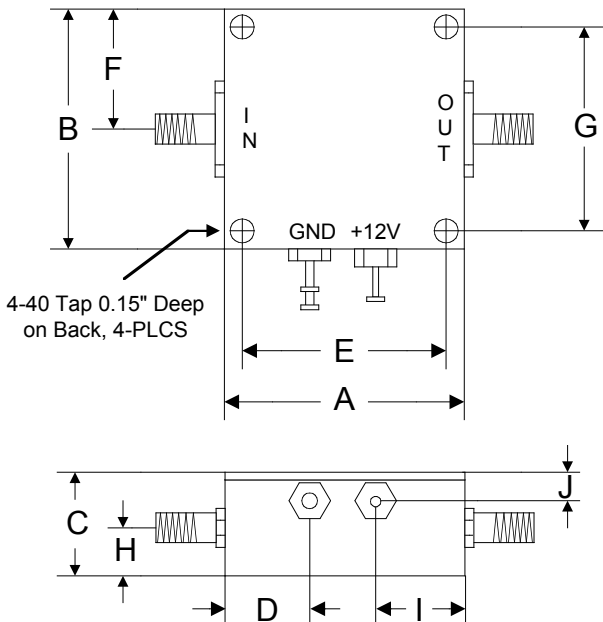
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1215 – 1240MHz Low Noise Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
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