

HD24248

0.1 – 2500MHz Low Noise Amplifier

Features

- Frequency Range: 0.1-2500MHz
- Gain: 25dB
- P_{1dB}: +1dBm
- IP3: +8dBm
- Noise Figure: 2.4dB
- DC Power: 12V
- SMA Connector

Performance measured @ 1000MHz

Description

HD24248 is a wideband Low Noise Amplifier operates with frequency range usable from 100KHz to 2500MHz.



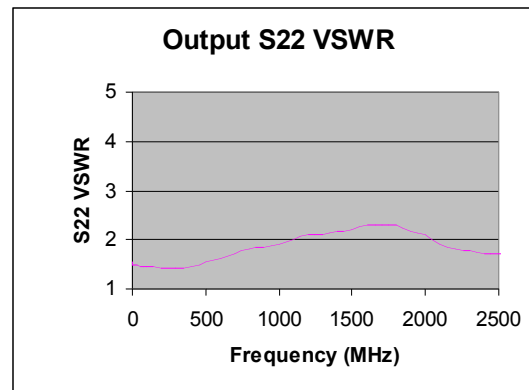
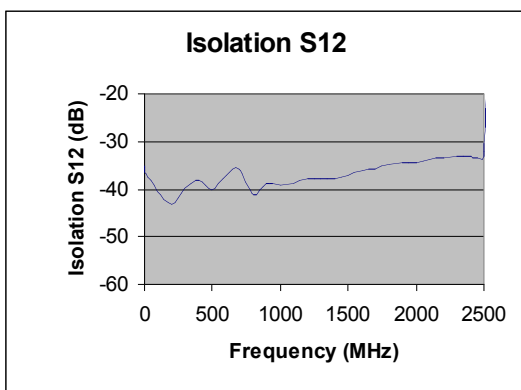
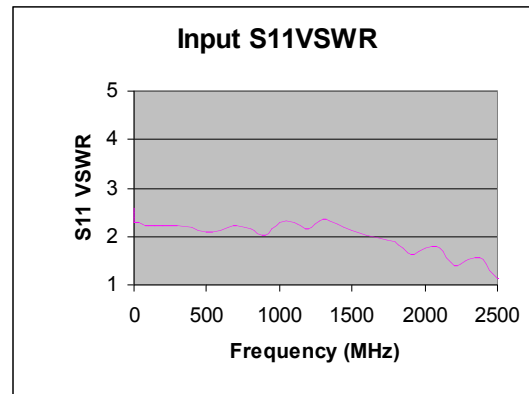
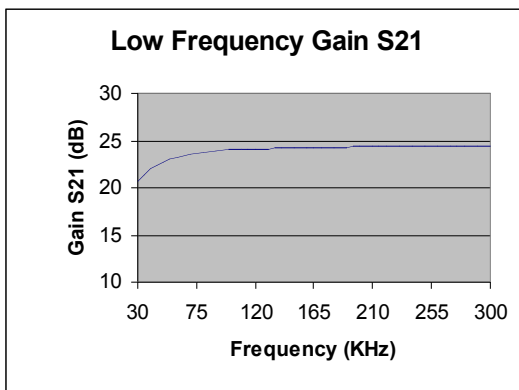
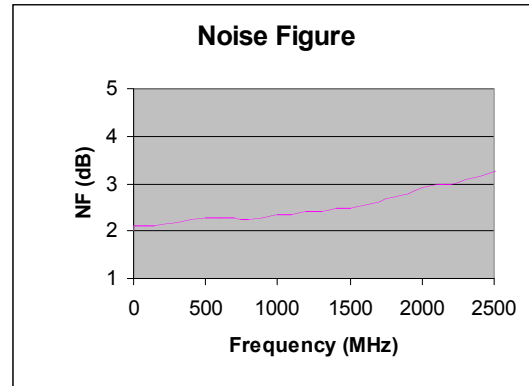
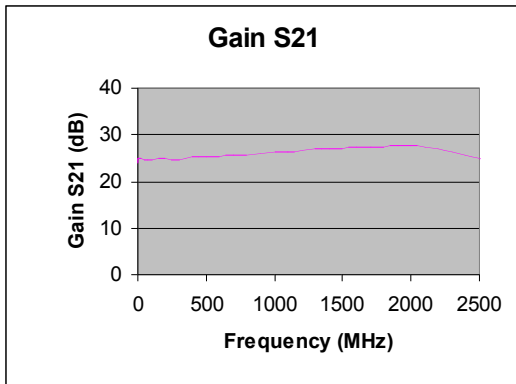
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.1		2500
Gain	f = 100KHz	dB	24	
	f = 1000MHz	dB	25	
	f = 2500MHz	dB	24.5	
P _{1dB}	f = 10MHz	dBm	0	
	f = 1000MHz	dBm	+1	
	f = 2500MHz	dBm	-5	
IP3	f = 1500MHz	dBm	+8	
Noise Figure	f = 10MHz	dB	2.0	
	f = 1000MHz	dB	2.4	
	f = 2500MHz	dB	3.2	
VSWR	f = 2500MHz			
	Input VSWR		1.2:1	
	Output VSWR		1.7:1	
DC Power Supply	V	10	12	15
Supply Current	mA		17	

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Typical Performance @ +25 °C



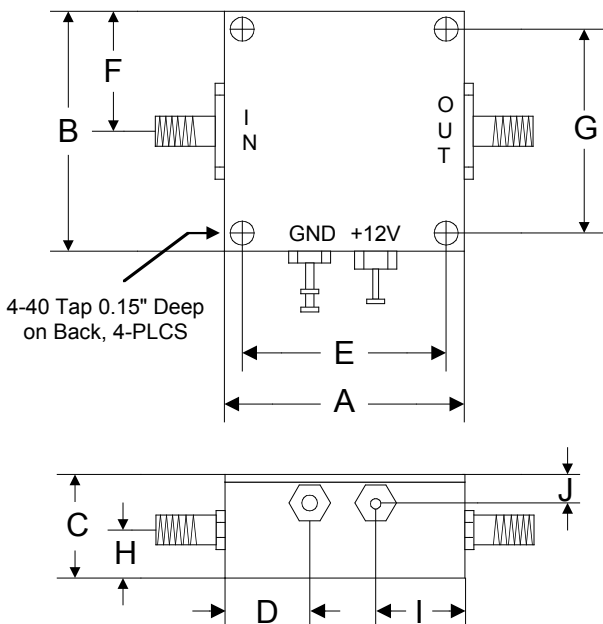
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Absolute Maximum Ratings

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