

HD23571

10 – 500MHz Low Noise Amplifier

Features

- Frequency Range: 10-500MHz
- Gain: 18dB
- P_{1dB}: +2dBm
- IP3: +14.5dBm
- Noise Figure: 2.9dB
- DC Power: 12V
- SMA Connector

Performance measured @ 500MHz

Description

HD23571 is a wideband Low Noise Amplifier operates with frequency range from 10 to 500MHz.



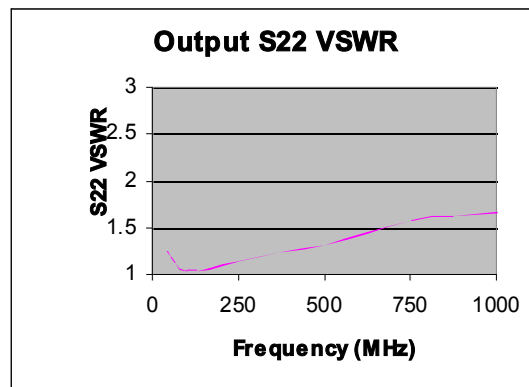
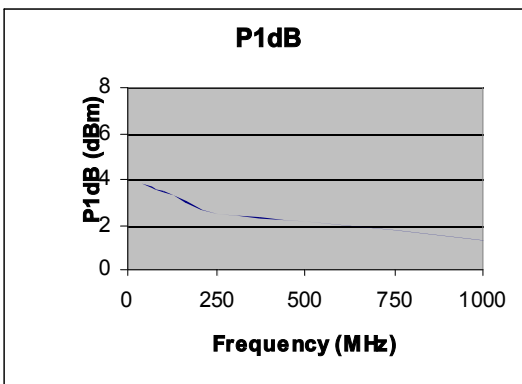
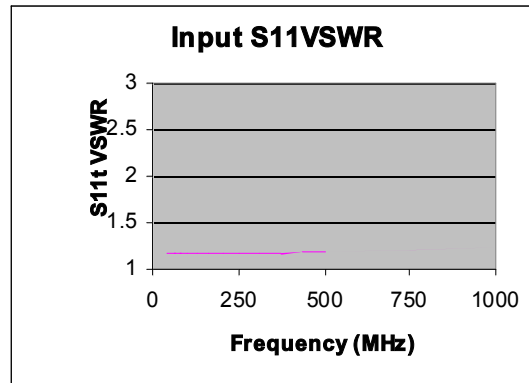
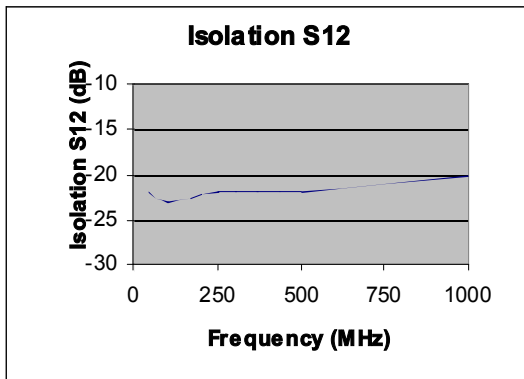
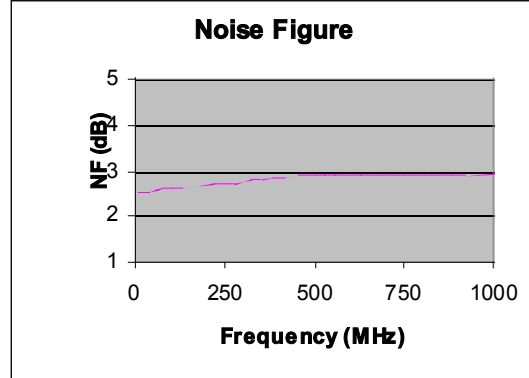
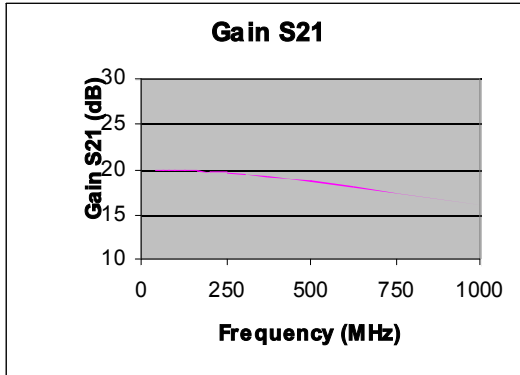
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		500
Gain	f = 10MHz		20.0	
	f = 250MHz		19.5	
	f = 500MHz		18.5	
P _{1dB}	f = 10MHz		+3.5	
	f = 250MHz		+3.0	
	f = 500MHz		+2.0	
IP3	f = 500MHz		+14.5	
Noise Figure	f = 10MHz		2.6	
	f = 250MHz		2.8	
	f = 500MHz		2.9	
VSWR	f = 10-500MHz			
	Input VSWR		1.5:1	
	Output VSWR		1.7:1	
DC Power Supply	V	9	12	15
Supply Current	mA		20	

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Typical Performance @ +25 °C



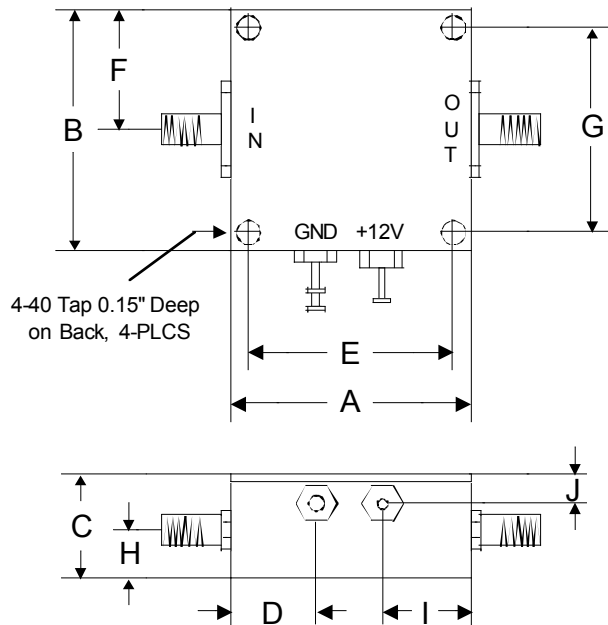
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+16V
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