

HD23569

10 – 1000MHz Low Noise Amplifier

Features

- Frequency Range: 10-1000MHz
- Gain: 33dB
- P_{1dB}: +11dBm
- IP3: +23dBm
- Noise Figure: 2.0dB
- DC Power: 12V
- SMA Connector

Performance measured @ 500MHz



Description

HD23569 is a wideband Low Noise Amplifier operates with frequency range usable from 10 to 1000MHz.

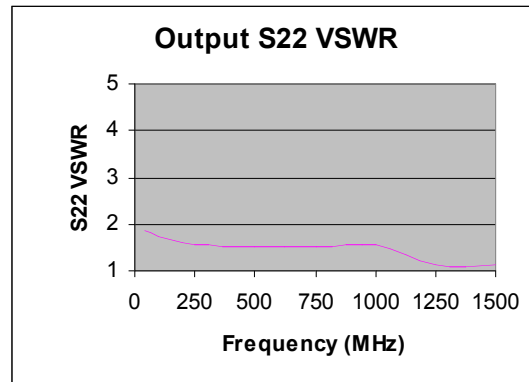
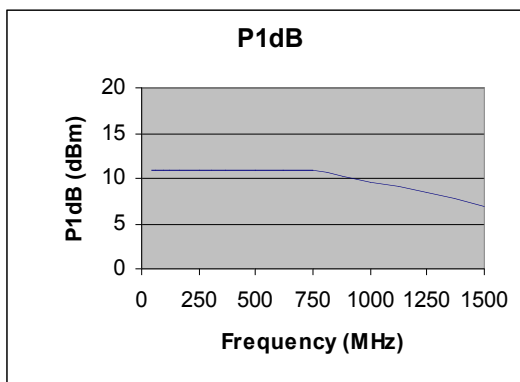
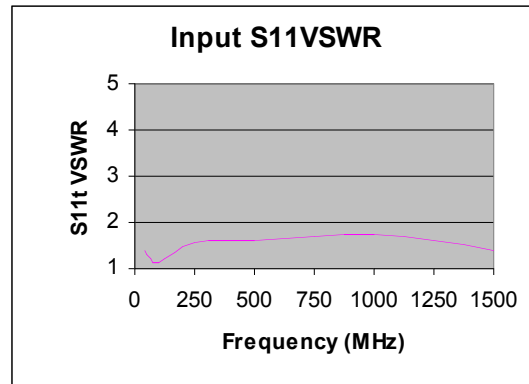
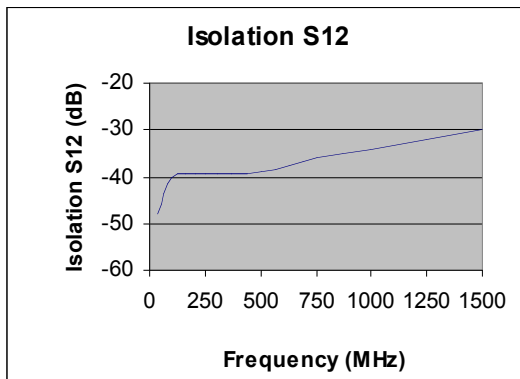
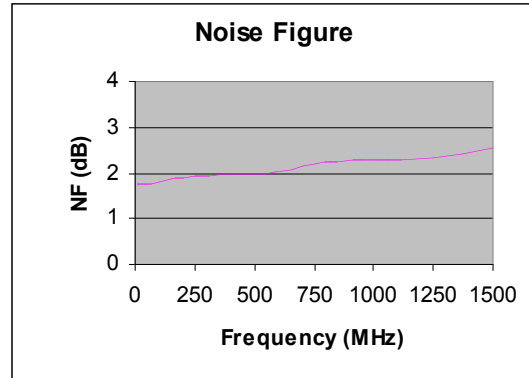
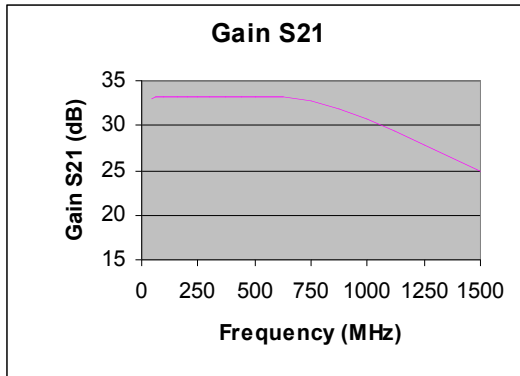
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		1000
Gain				
f = 40MHz	dB		33	
f = 500MHz	dB		33	
f = 1000MHz	dB		30	
P _{1dB}				
f = 40MHz	dBm		+11	
f = 500MHz	dBm		+11	
f = 1000MHz	dBm		+9	
IP3				
f = 500MHz	dBm		+23	
Noise Figure				
f = 40MHz	dB		1.8	
f = 500MHz	dB		2.0	
f = 1000MHz	dB		2.3	
VSWR				
f = 500MHz				
Input VSWR			1.5:1	
Output VSWR			1.5:1	
DC Power Supply	V	9	12	15
Supply Current	mA		35	

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Typical Performance @ +25 °C



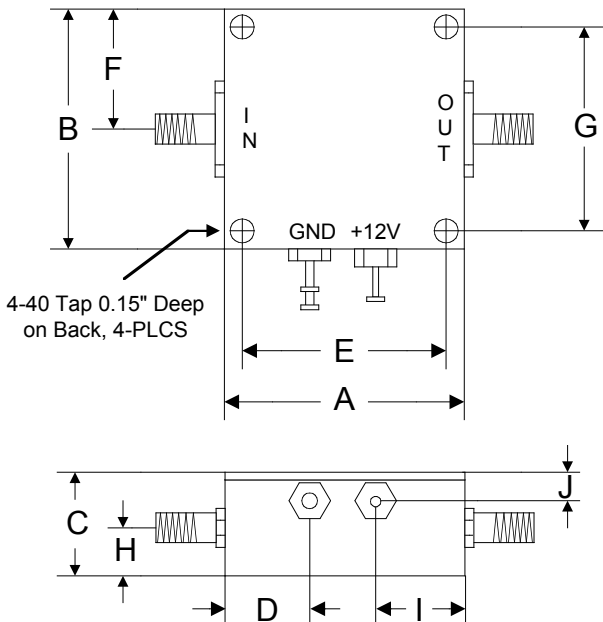
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Absolute Maximum Ratings

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