

HD24389

200 – 1000MHz Low Noise Amplifier

Features

- Frequency Range: 200-1000MHz
- Gain: 20dB
- P_{1dB}: +17dBm
- IP3: +35dBm
- Noise Figure: 0.85dB
- DC Power: 7 - 15V
- SMA Connector



Performance measured @ 600MHz

Description

HD24389 is a 0.85dB Noise Figure Wideband Low Noise Amplifier operates with frequency range usable from 200 to 1000MHz.

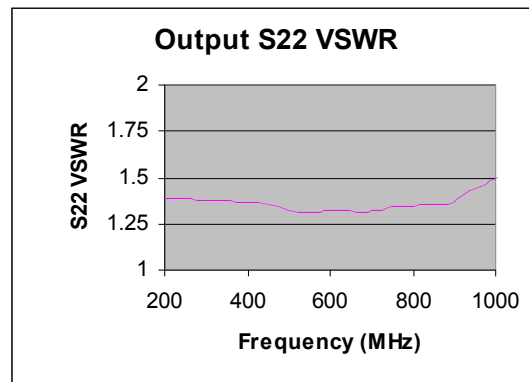
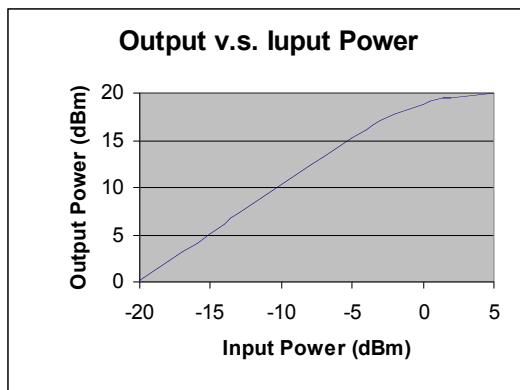
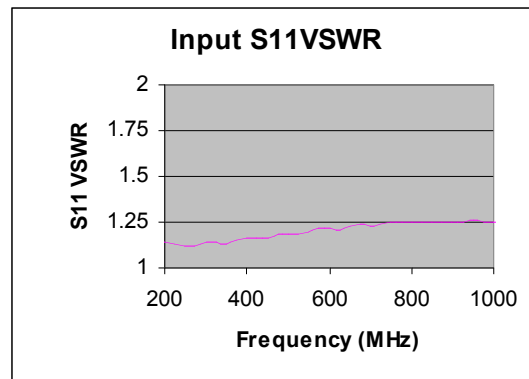
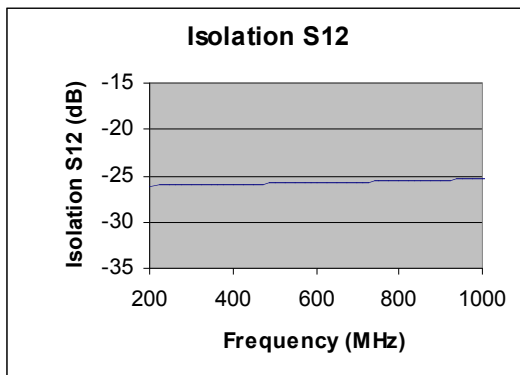
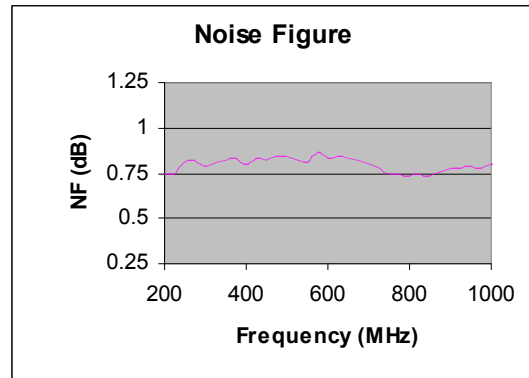
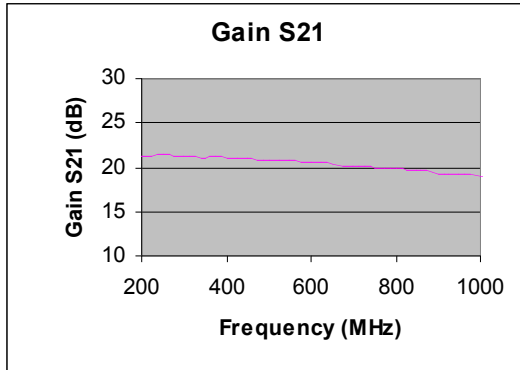
Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	200		1000
Gain	dB		20	
Gain Flatness	dB		± 1.2	
P _{1dB}	dBm		+17	
IP3	dBm		+35	
Noise Figure	dB		0.85	
Reverse Isolation	dB		-25	
VSWR				
Input VSWR			1.3:1	
Output VSWR			1.5:1	
DC Power Supply	V	7	12	15
Supply Current	mA		75	

HD24389

200 – 1000MHz Low Noise Amplifier

Typical Performance @ +25 °C



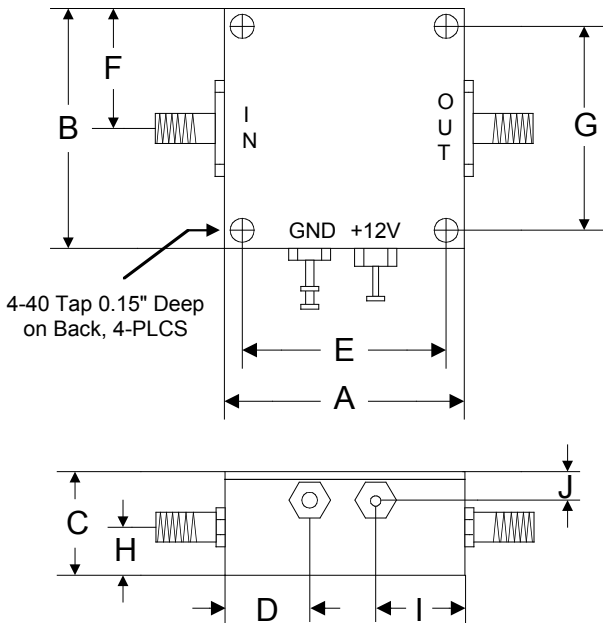
HD24389

200 – 1000MHz 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