

LNA Series

5000 – 6000MHz Low Noise Amplifier

Features

- Frequency Range: 5.0 – 6.0GHz
- Gain: 16dB
- P_{1dB}: +12dBm
- IP3: +24dBm
- Noise Figure: 2.0dB
- DC Power: 12V
- SMA Connector

Performance measured @ 5.5GHz

Description

LNA-5500 is a 16dB Gain Low Noise Amplifier operates with frequency range from 5.0 to 6.0GHz, cover both 5.2GHz and 5.8GHz ISM Band

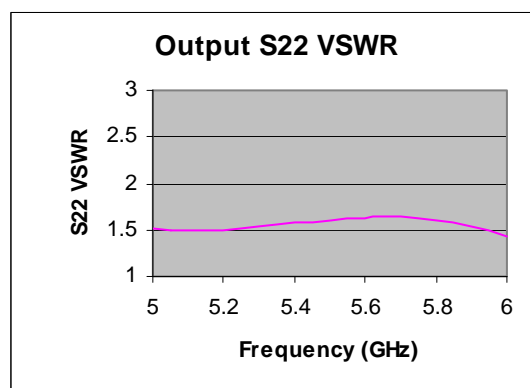
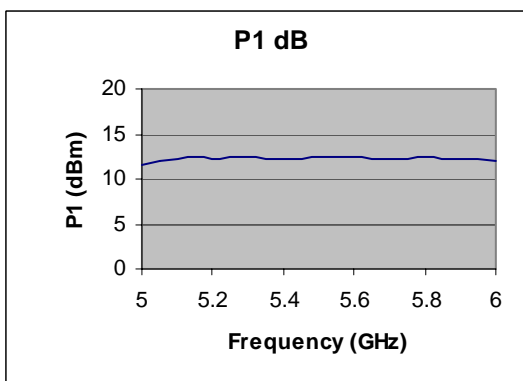
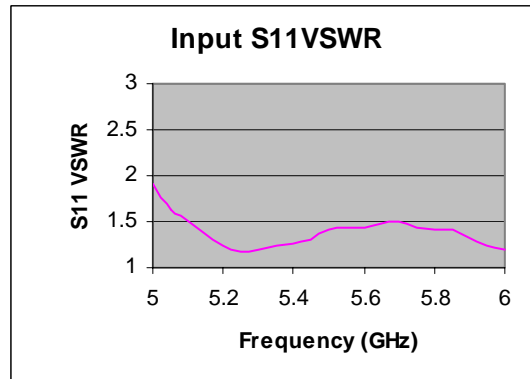
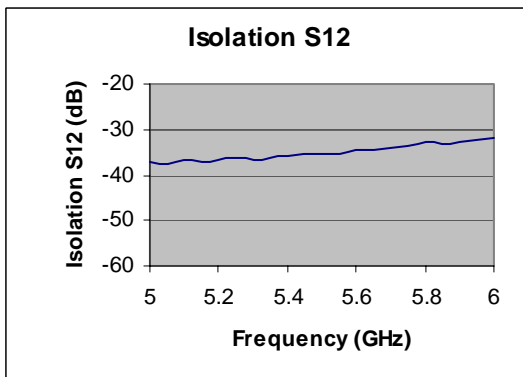
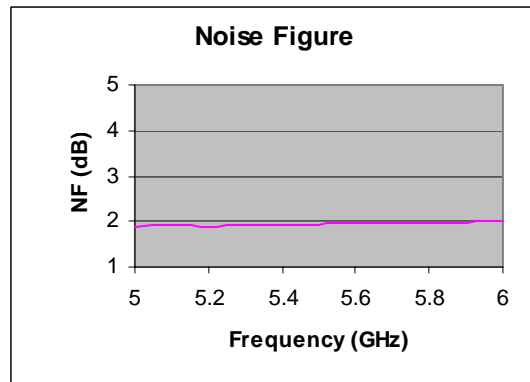
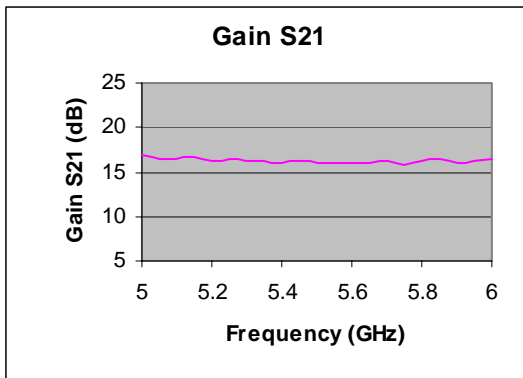
Picture



Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5.0		6.0
Gain				
f = 5.0 GHz	dB		16.5	
f = 5.5 GHz	dB		16	
f = 6.0 GHz	dB		16	
P _{1dB}				
f = 5.0 GHz	dBm		+11	
f = 5.5 GHz	dBm		+12	
f = 6.0 GHz	dBm		+12	
IP3				
f = 5.5 GHz	dBm		+24	
Noise Figure	dB		2.0	
Reverse Isolation	dB		-35	
VSWR				
f = 5.0 – 6.0 GHz				
Input VSWR			1.5:1	
Output VSWR			1.6:1	
DC Power Supply	V	7	12	15
Supply Current	mA		55	

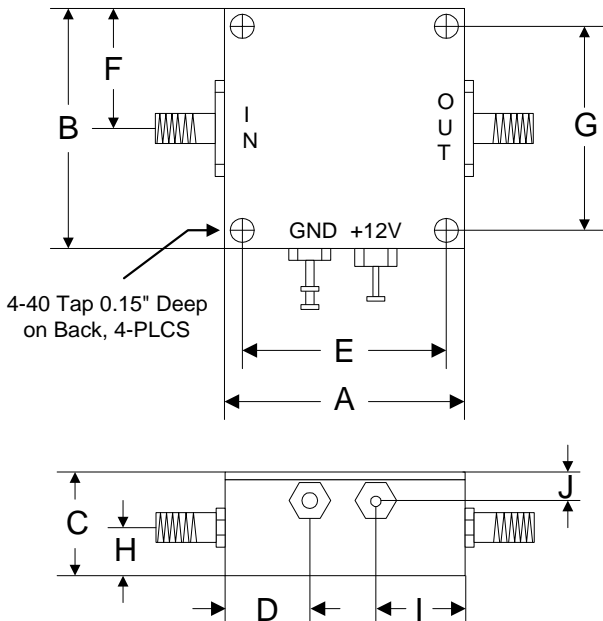
Typical Performance @ +25 °C



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