

LNA Series

5800 – 6500MHz Low Noise Amplifier

Features

- Frequency Range: 5.8 – 6.5GHz
- Gain: 18dB
- P_{1dB}: +14dBm
- IP3: +27dBm
- Noise Figure: 2.5dB
- DC Power: 10V -18V
- SMA Connector

Performance measured @ 6.1GHz

Description

LNA-6500 is an 18dB Gain Low Noise Amplifier operates with frequency range for 5.8 to 6.5GHz Band.

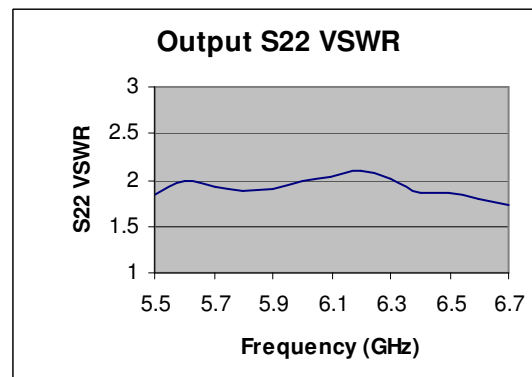
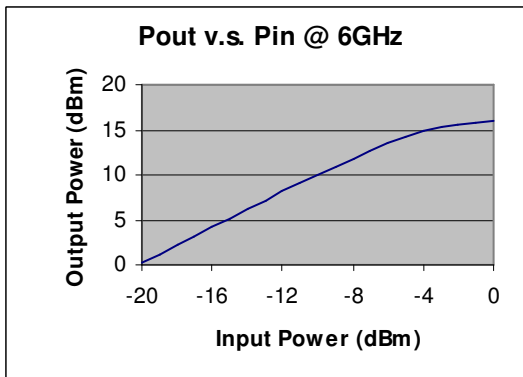
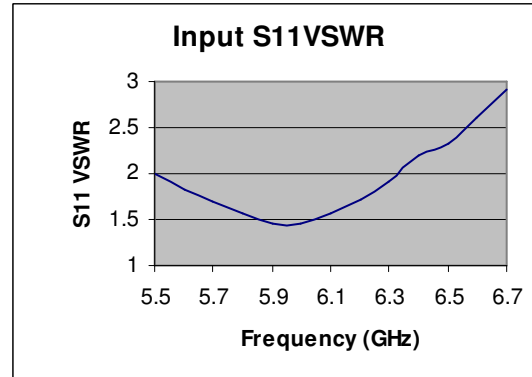
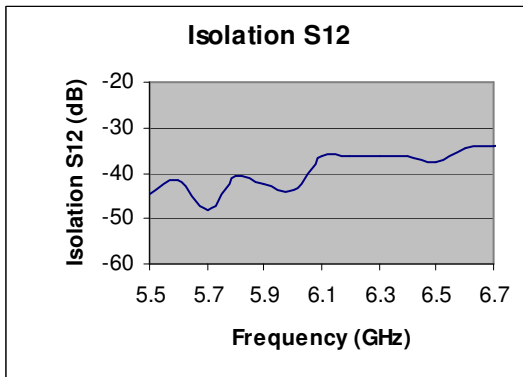
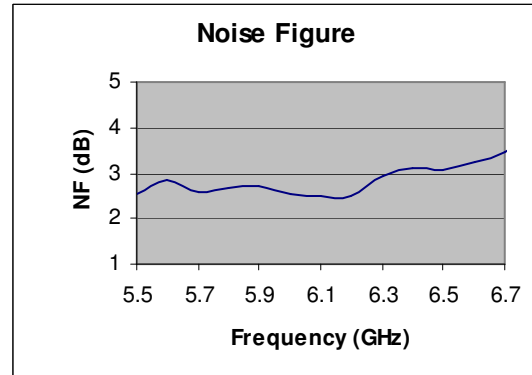
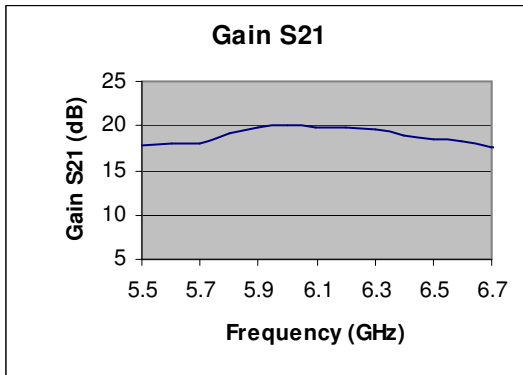
Picture



Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{cc} = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	5.8		6.5
Gain				
f = 5.8 GHz	dB		18	
f = 6.1 GHz	dB		19	
f = 6.5 GHz	dB		18	
P _{1dB}	dBm		+14	
IP3	dBm		+27	
Noise Figure	dB		2.5	3.5
Reverse Isolation	dB		-35	
VSWR				
Input VSWR			1.6:1	
Output VSWR			2.0:1	
DC Power Supply	V	10	12	18
Supply Current	mA		88	

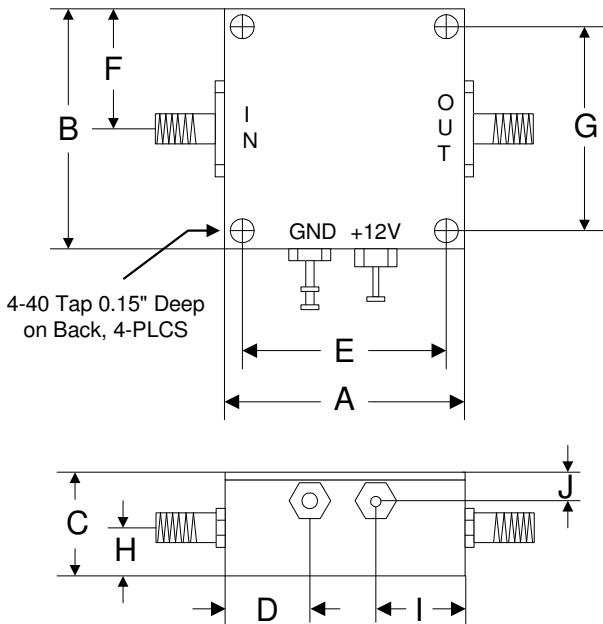
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
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