

## LNA Series

## 7 – 14GHz Low Noise Amplifier

### Features

- Frequency Range: 7-14GHz
- Gain: 17dB
- P<sub>1dB</sub>: +13dBm
- IP3: +25dBm
- Noise Figure: 1.8dB
- DC Power: 4.5V-16V/60mA
- SMA Connector

### Description

LNA-14G is a high performance wideband Low Noise Amplifier and Driver Amplifier operates with frequency range from 7 to 14GHz.

### Picture



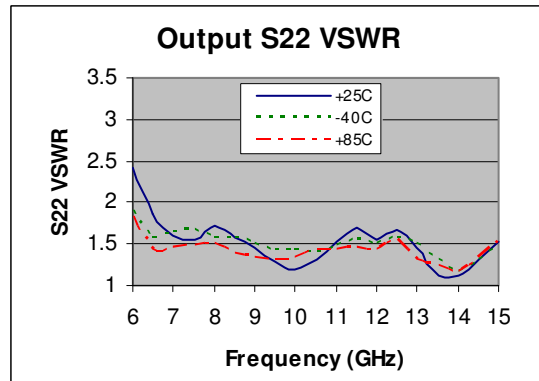
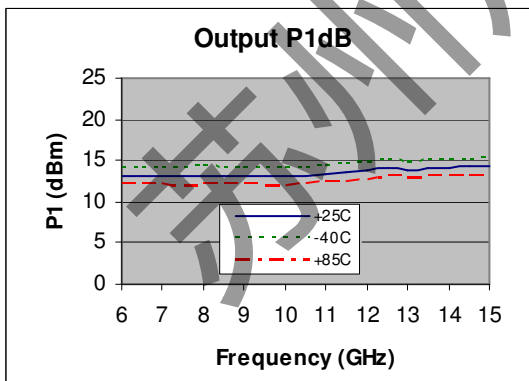
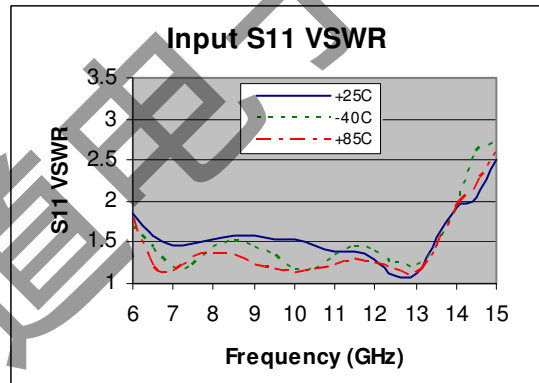
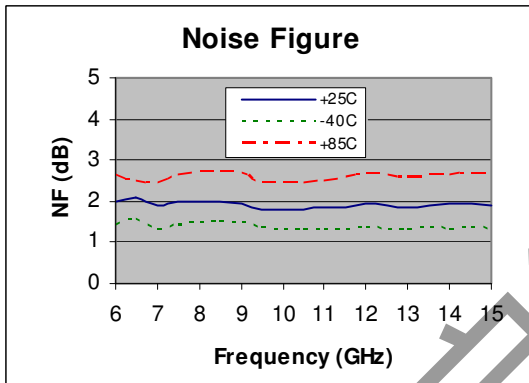
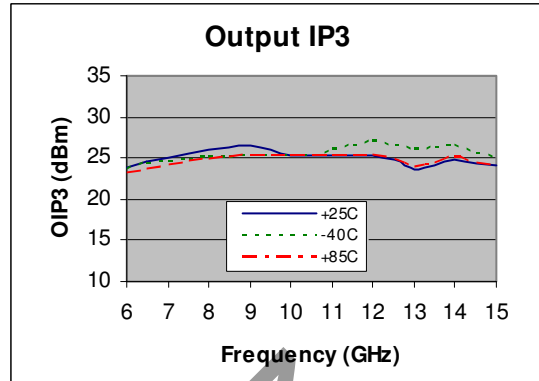
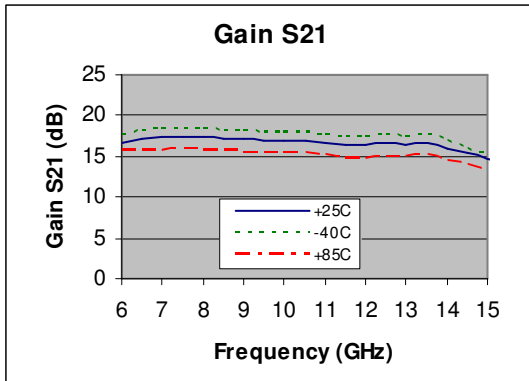
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>cc</sub> = +5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	7		14
Gain f = 7GHz	dB		17.0	
f = 10GHz	dB		17.0	
f = 14GHz	dB		16.0	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P <sub>1dB</sub>	dBm		+13	
Saturated Output Power P <sub>Sat</sub>	dBm		+14.5	
Output Third Order Intercept IP3	dBm		+25	
Noise Figure	dB		1.8	2.2
Reverse Isolation f = 10GHz	dB		-34	
VSWR Input VSWR			1.5:1	
Output VSWR			1.5:1	
DC Power Supply	V	4.5	5	16
Supply Current	mA		60	75
Operating Temperature	°C	-40		+85
Size (excluding RF Connectors)	Inch	1.250" (L) x 1.250" (W) x 0.563" (H)		
Weight	Oz.	1.5		

## LNA Series

## 7 – 14GHz Low Noise Amplifier

### Typical Performance @ +25 °C



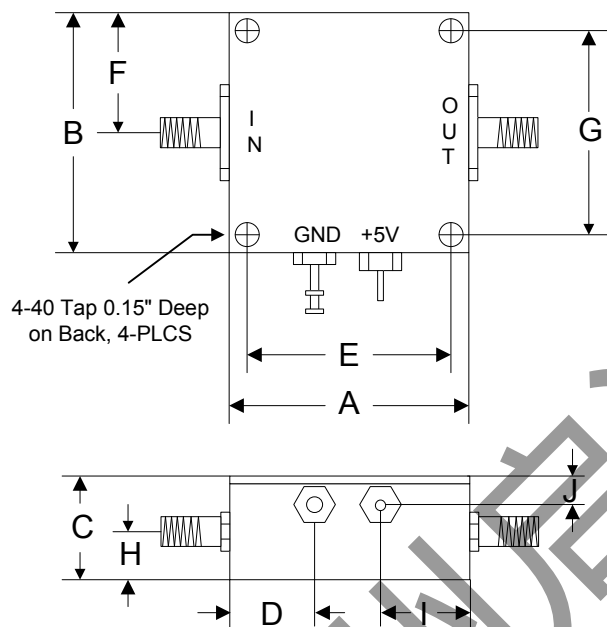
## LNA Series

## 7 – 14GHz Low Noise Amplifier

### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+5dBm
Supply Voltage	+20V
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