

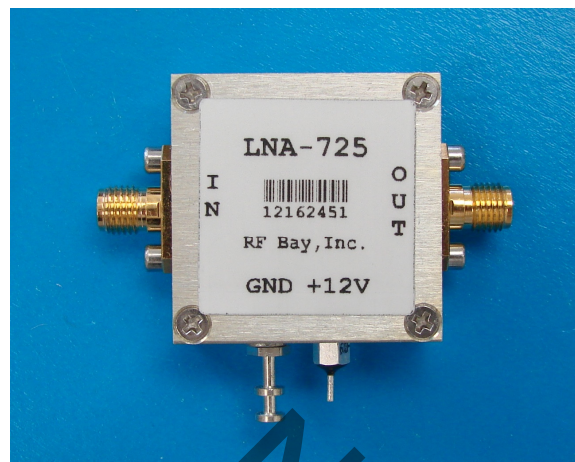
## LNA Series

## 5 – 700MHz Low Noise Amplifier

### Features

- Frequency Range: 5-700MHz
- Gain: 25dB
- P<sub>1dB</sub>: +23dBm
- IP3: +38dBm
- Noise Figure: 1.5dB
- DC Power: 12V/150mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

### Picture



### Description

LNA-725 is a 25dB Gain Flat Frequency Response Low Noise Amplifier operates in frequency range from 5 to 700MHz.

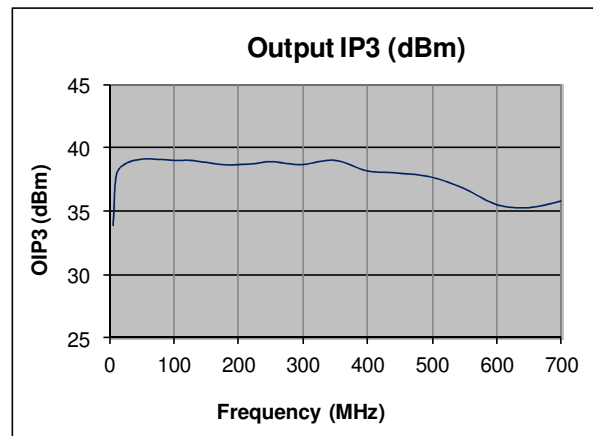
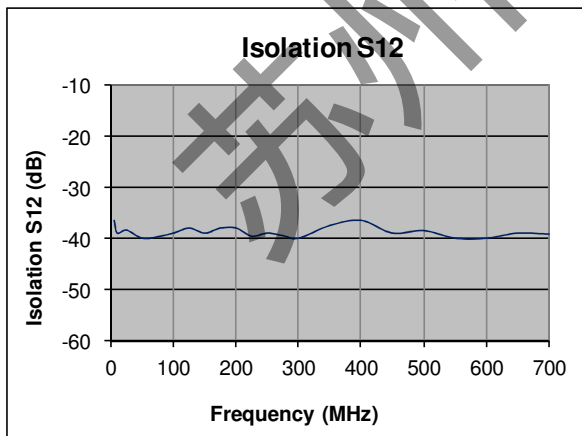
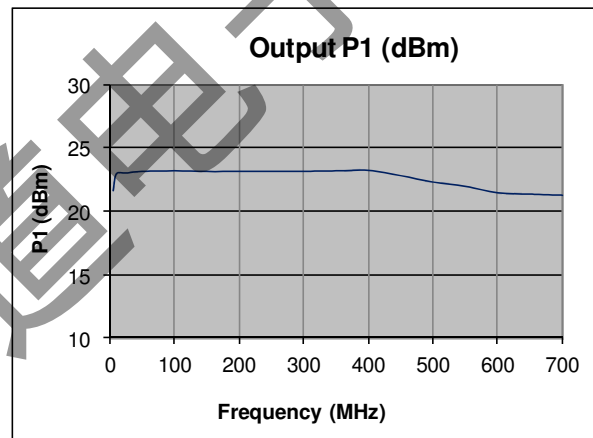
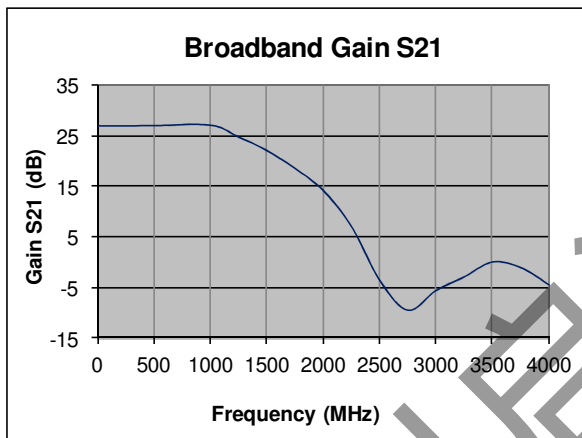
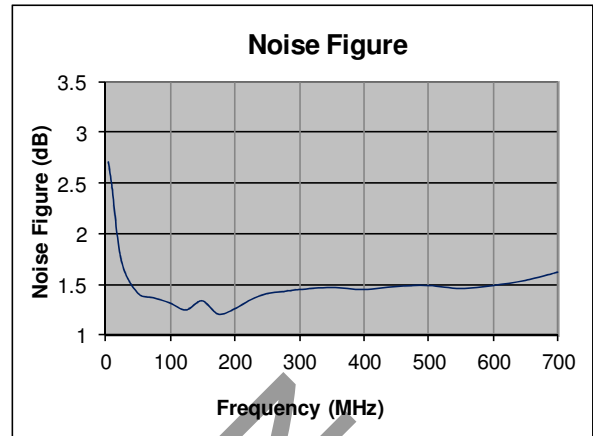
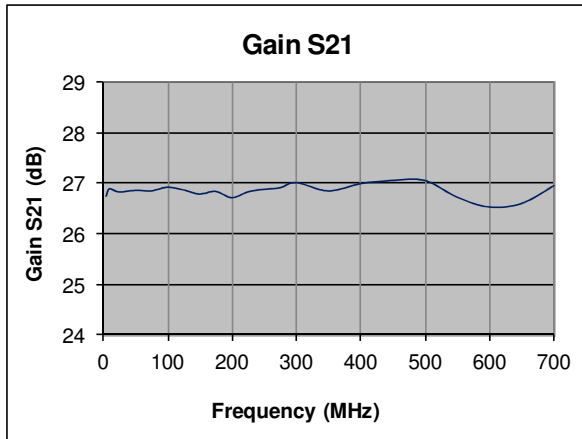
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>supply</sub> = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	5		700
Gain S <sub>21</sub> f = 5MHz	dB	24.0	26.7	
f = 25MHz	dB	24.0	26.8	
f = 100MHz	dB	24.0	26.9	
f = 300MHz	dB	24.0	27.0	
f = 500MHz	dB	24.0	27.0	
f = 700MHz	dB	24.0	26.9	
Gain Flatness	dB		± 0.25	± 0.5
P <sub>1dB</sub> @ 350MHz	dBm	+21	+23	
Output IP3 @ 350MHz	dBm	+30	+38	
Noise Figure @ 350MHz	dB		1.5	1.8
Reverse Isolation S <sub>12</sub>	dB		-37	
VSWR Input VSWR S <sub>11</sub>			1.2:1	2.0:1
Output VSWR S <sub>22</sub>			1.4:1	2.0:1
DC Power Supply	V	11	12 to 15	30
Supply Current	mA		150	180

## LNA Series

## 5 – 700MHz Low Noise Amplifier

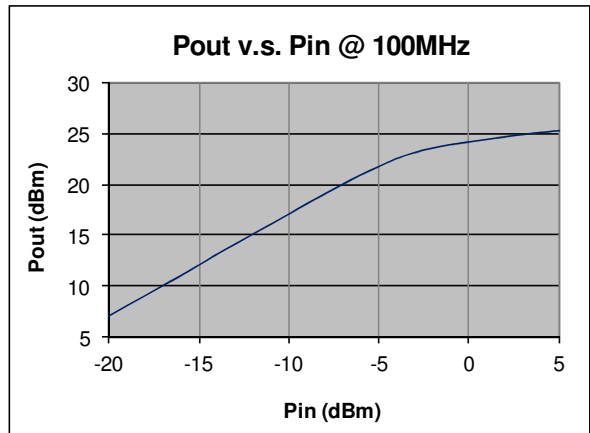
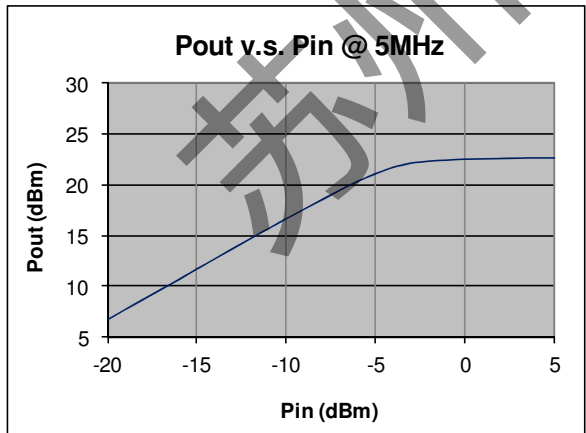
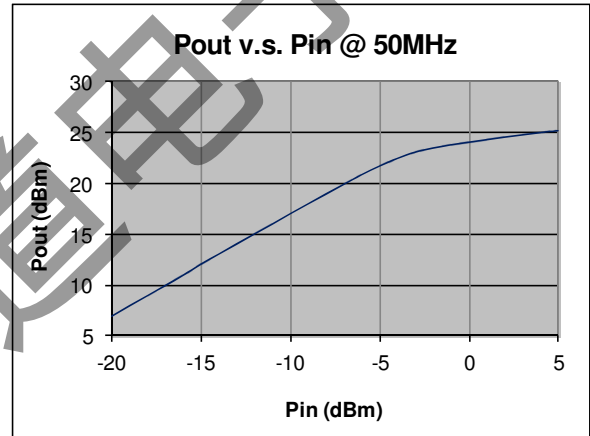
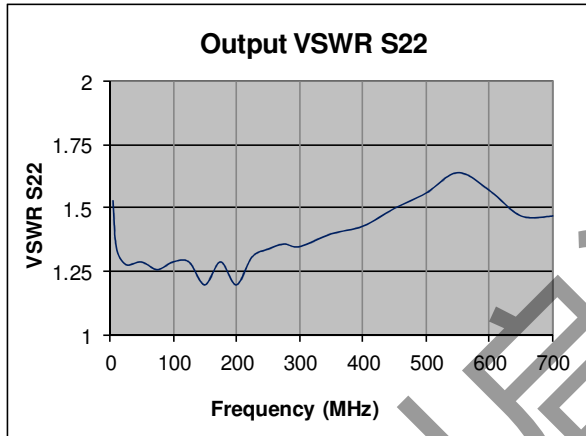
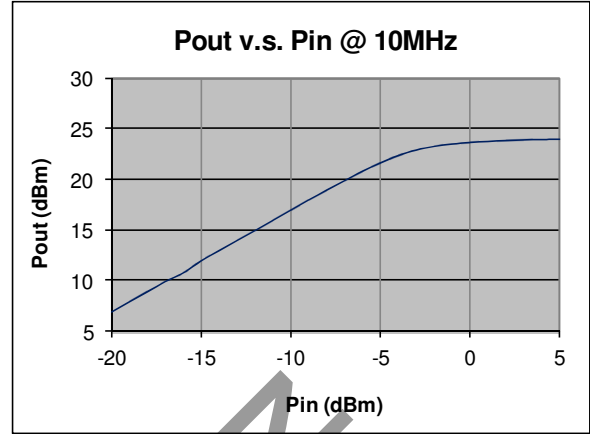
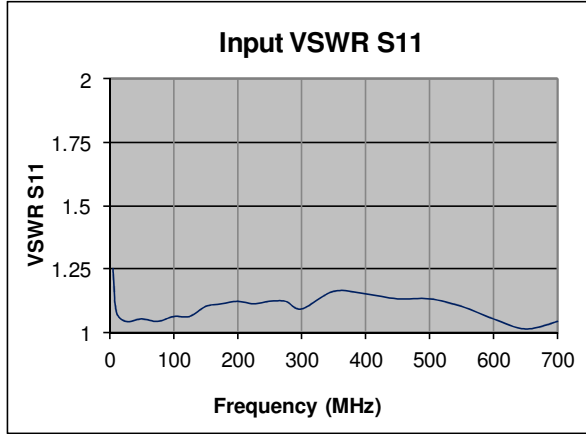
### Typical Performance @ +25 °C



## LNA Series

## 5 – 700MHz Low Noise Amplifier

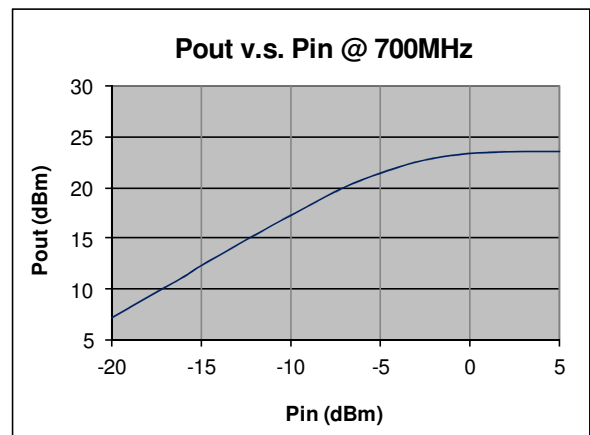
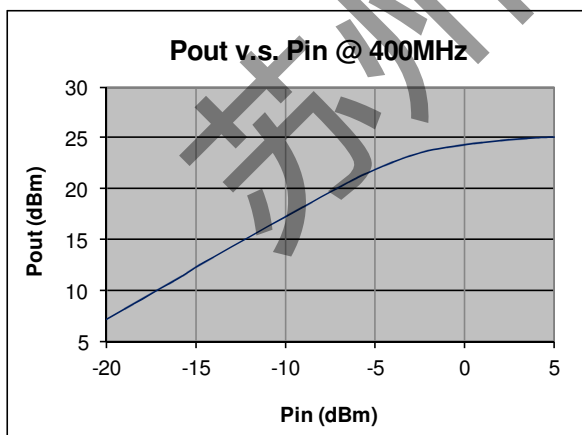
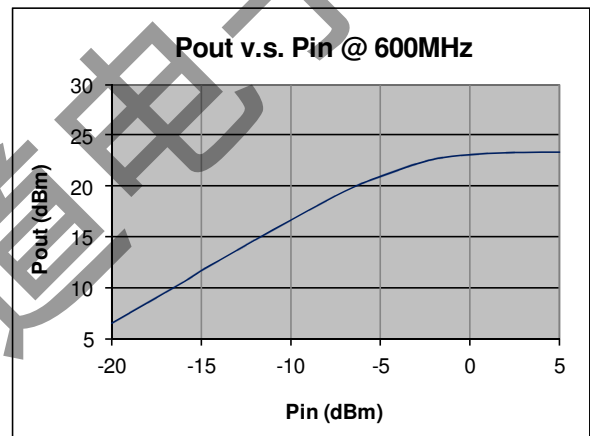
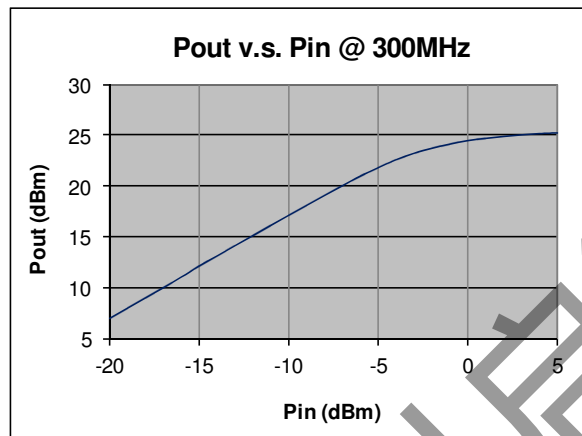
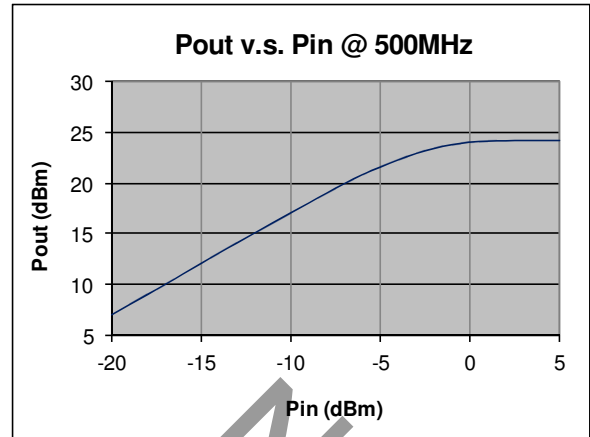
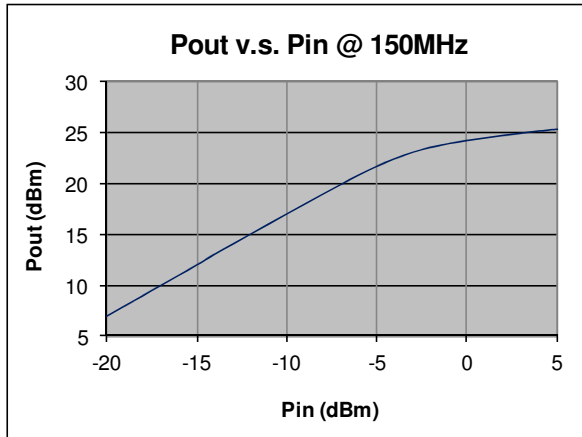
### Typical Performance @ +25 °C



## LNA Series

## 5 – 700MHz Low Noise Amplifier

### Typical Performance @ +25 °C



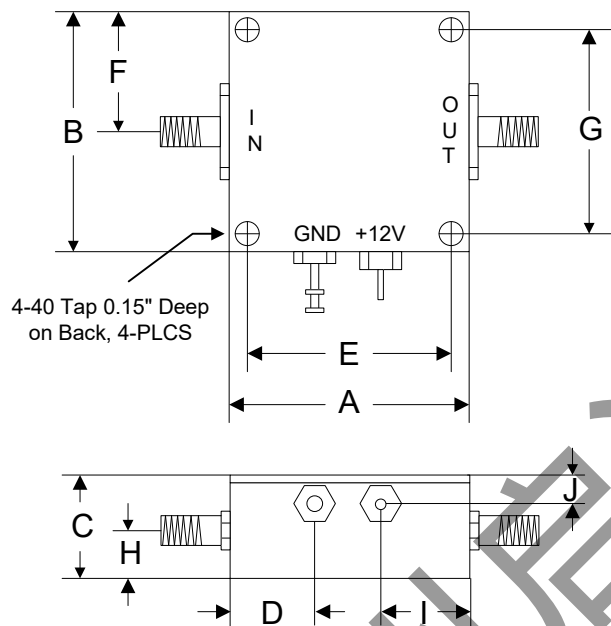
## LNA Series

## 5 – 700MHz Low Noise Amplifier

### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+35V
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

**WARNING: MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50 °C**