

## LNA Series

## 10 – 700MHz Low Noise Amplifier

### Features

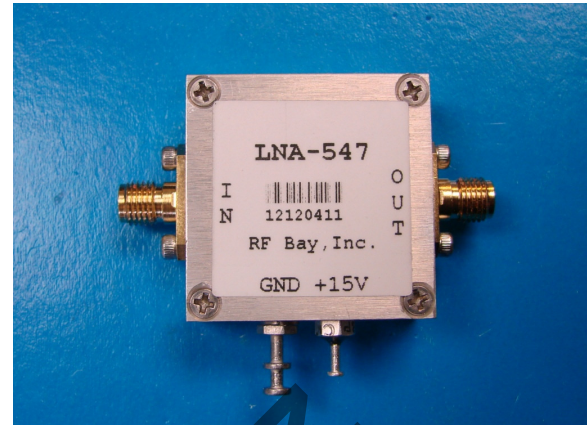
- Frequency: 10 - 700MHz
- Gain: 47dB
- $P_{1dB}$ : +22dBm
- IP3: +38dBm
- Noise Figure: 2dB
- DC Power: 15V/150mA
- SMA Connector

Performance measured @ 350MHz

### Description

LNA-547 is a wideband 47dB Gain Low Noise Amplifier operates with frequency range from 10 to 700MHz.

### Picture



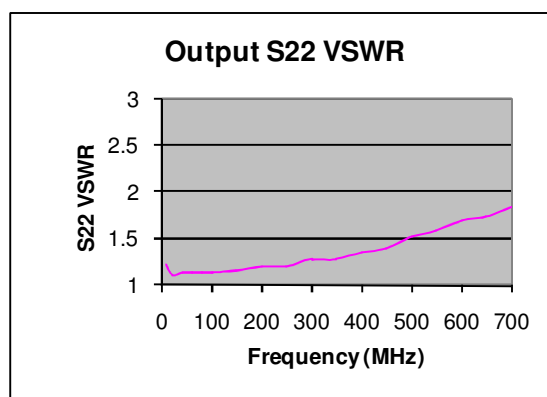
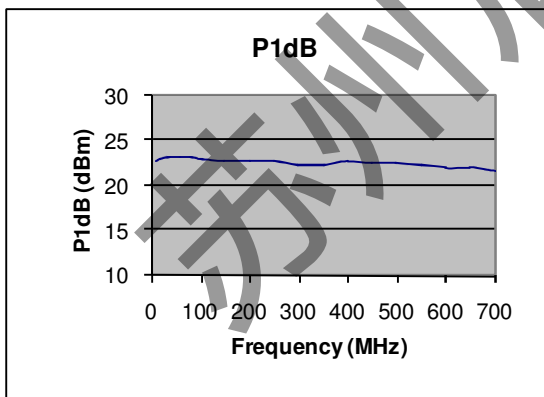
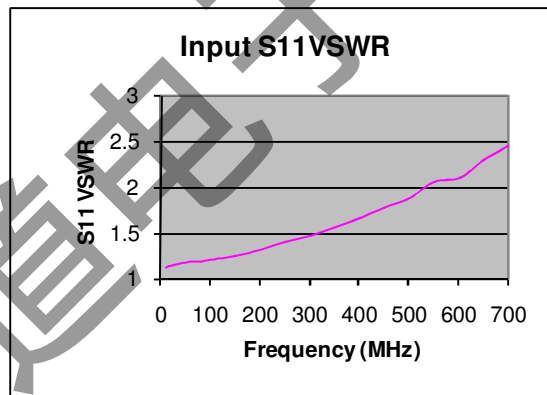
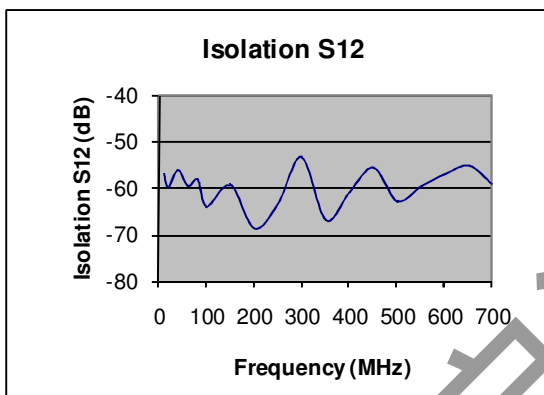
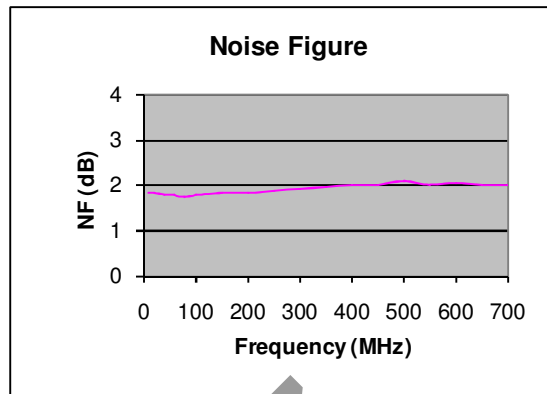
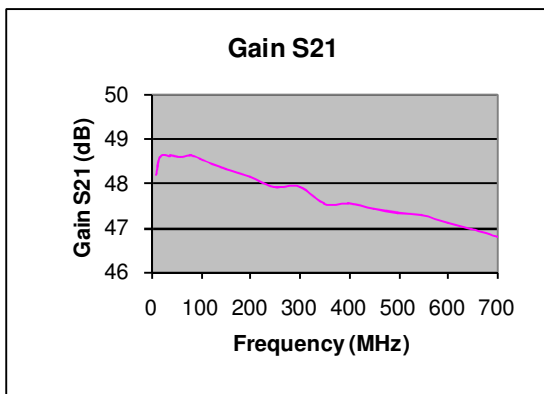
### Electrical Specifications @ +25 °C, $Z_{in} = Z_{out} = 50 \Omega$ , $V_{cc} = +15V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		700
Gain	dB			
f = 10MHz	dB		48.0	
f = 350MHz	dB		47.5	
f = 700MHz	dB		46.8	
Gain Flatness	dB			± 1.0
$P_{1dB}$	dBm		+22	
IP3	dBm		+38	
Reserve Isolation	dB		-58	
Noise Figure	dB		2.0	
VSWR				
Input VSWR			1.6:1	
Output VSWR			1.3:1	
DC Power Supply	V		15	
Supply Current	mA		150	

## LNA Series

## 10 – 700MHz Low Noise Amplifier

### Typical Performance @ +25 °C



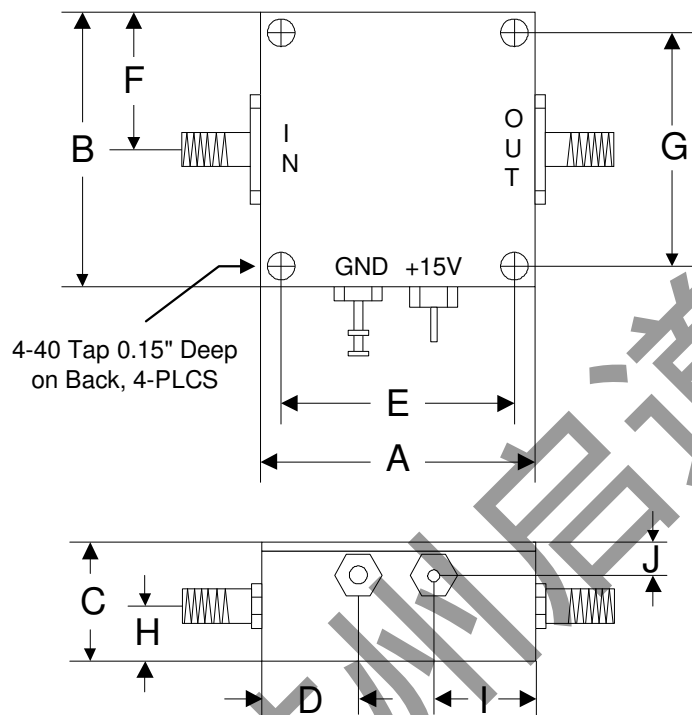
## LNA Series

## 10 – 700MHz Low Noise Amplifier

### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+18V
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
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76