

## LPA Series

## 10KHz – 3000MHz RF Amplifier

### Features

- Frequency Range:0.01-3000MHz
- Gain: 13dB
- P<sub>1dB</sub>: +13dBm
- IP3: +27dBm
- Noise Figure: 4dB
- DC Power: 15V/47mA
- SMA Connector

### Picture



Performance at 3000MHz

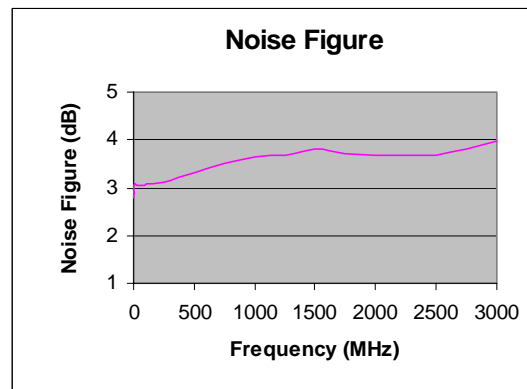
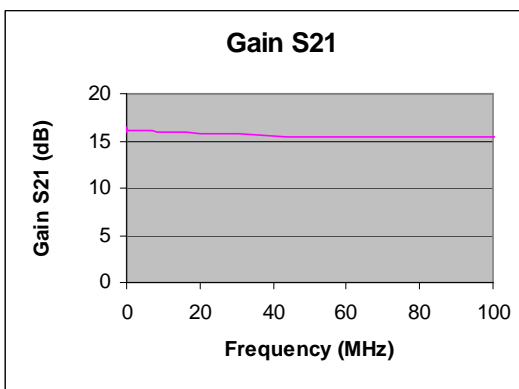
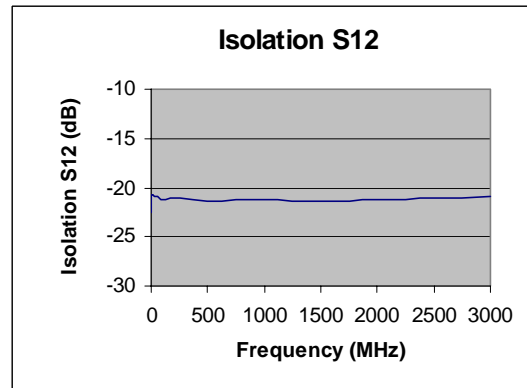
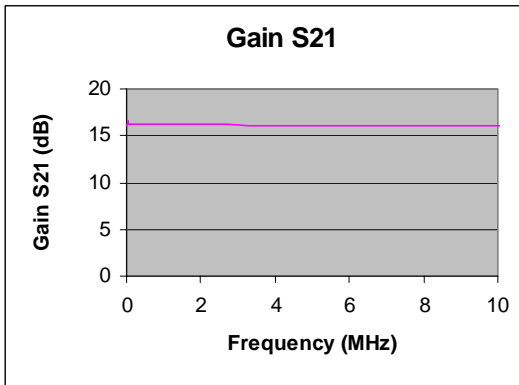
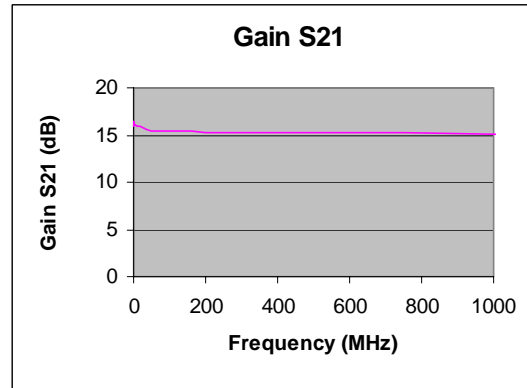
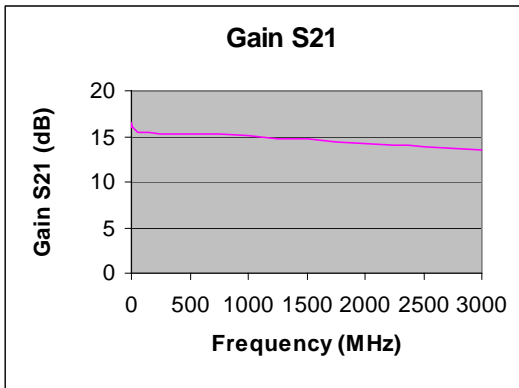
### Description

LPA-3-13 is a wideband RF Amplifier operates with frequency range from 10KHz to 3000MHz.

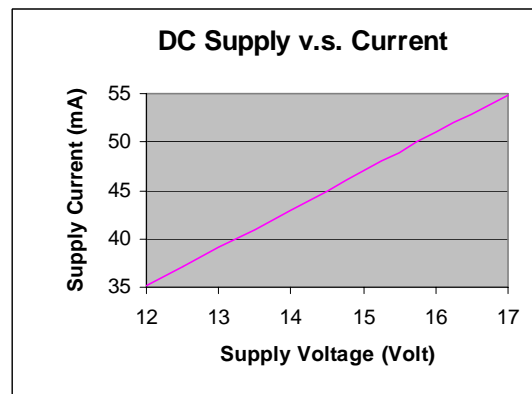
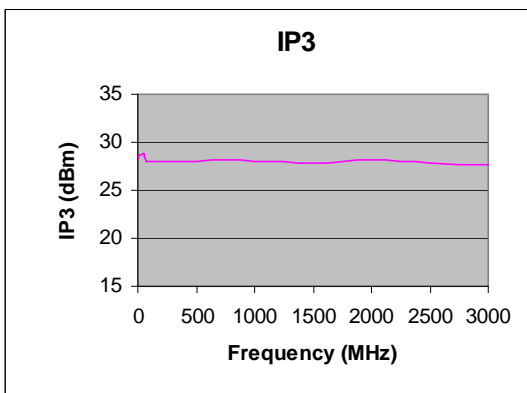
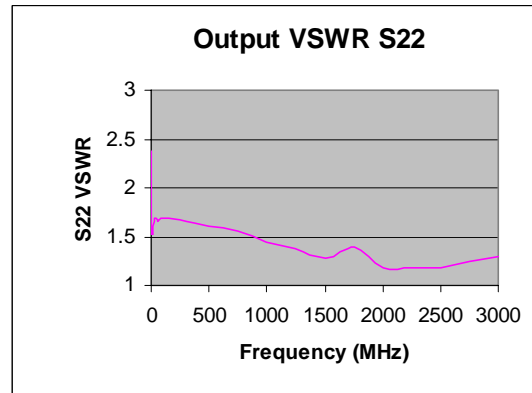
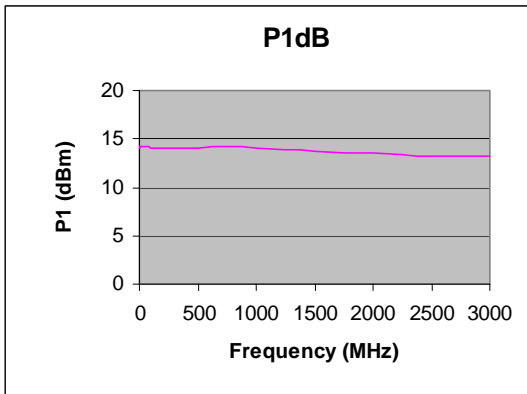
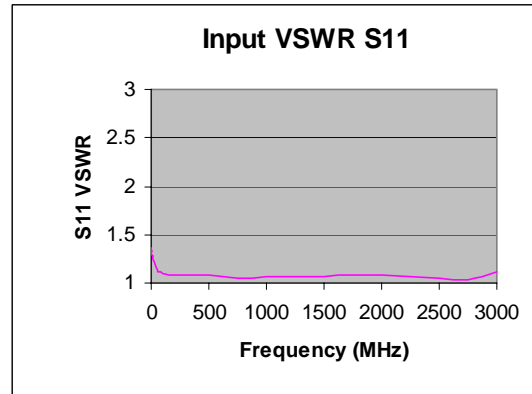
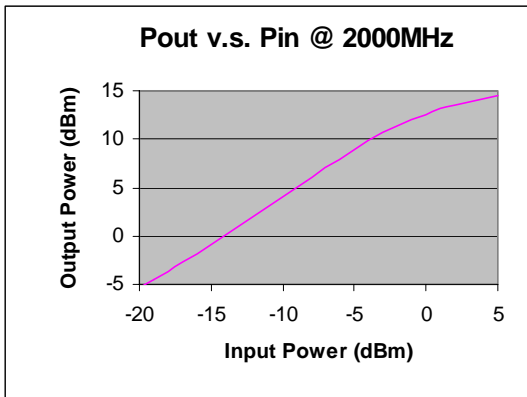
### Electrical Specifications @ +25 °C, Z<sub>S</sub> = Z<sub>L</sub> = 50 Ohms, V<sub>cc</sub>=+15V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.01		3000
Gain				
f = 1KHz	dB		16.0	
f = 1MHz	dB		16.0	
f = 100MHz	dB		15.0	
f = 500MHz	dB		15.0	
f = 1000MHz	dB		15.0	
f = 2000MHz	dB		14.0	
f = 3000MHz	dB		13.0	
P <sub>1dB</sub>	dBm		+13	
IP3	dBm		+27	
Noise Figure	dB		4.0	
Reverse Isolation	dB		-20	
VSWR				
Input VSWR			1.2:1	
Output VSWR			1.5:1	
DC Power Supply	V		15	
Supply Current	mA		47	

### Typical Performance @ +25 °C



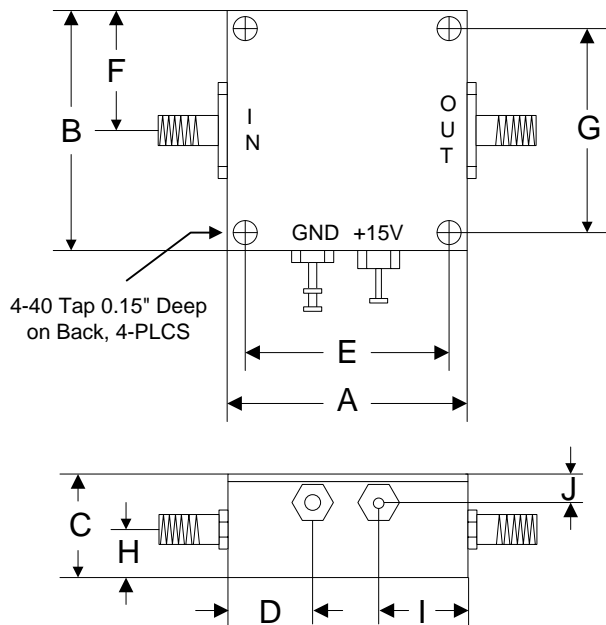
### Test Data @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
Supply Voltage	+17V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °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