

## LPA Series

## 50-6000MHz RF Amplifier

### Features

- Frequency: 50 - 6000MHz
- Gain: 27dB
- $P_{1dB}$ : +16.9dBm
- IP3: +31dBm
- Noise Figure: 5.5dB
- DC Power: 9V to 15V
- SMA Connector

Performance measured @ 3000MHz

### Description

LPA-6-27 is Low Power RF Amplifier operates with frequency range from 50MHz to 6000MHz.

### Picture



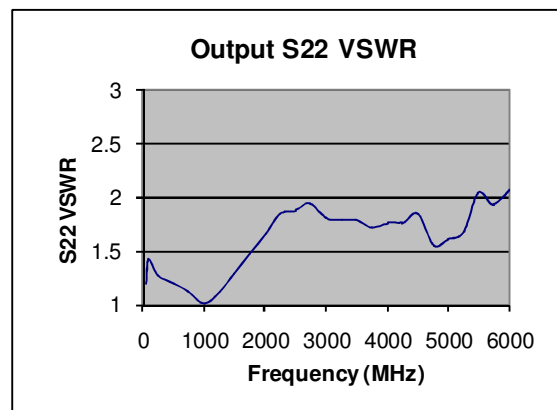
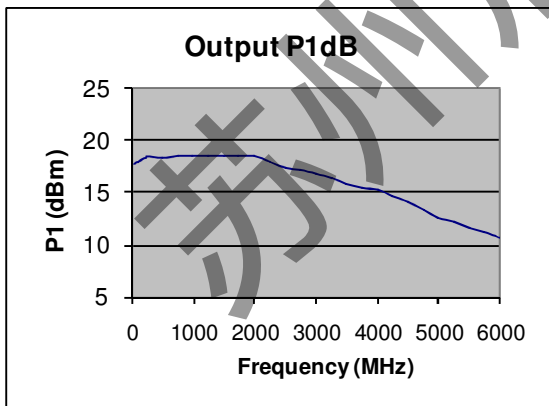
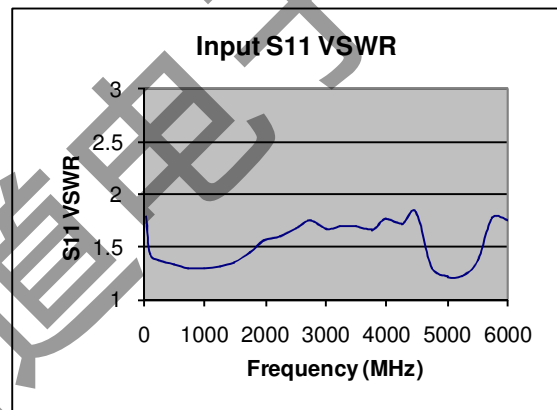
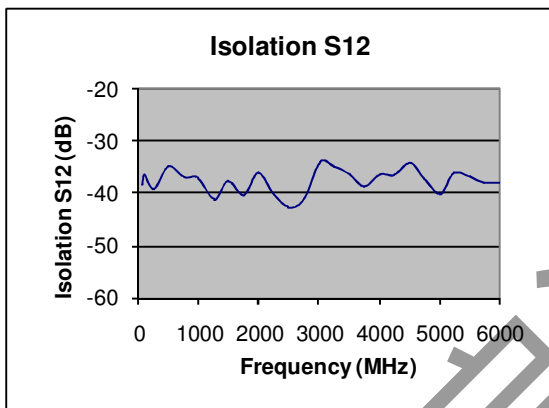
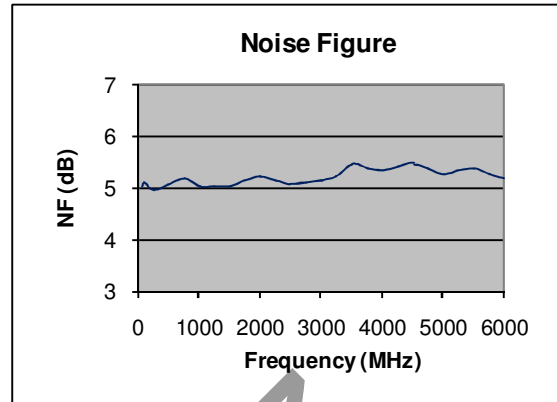
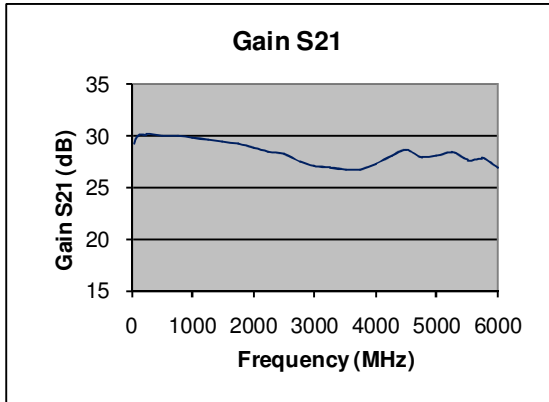
### Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \Omega$ , $V_{supply} = +12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		6000
Gain				
f = 50MHz	dB		29.0	
f = 500MHz	dB		30.0	
f = 2000MHz	dB		29.0	
f = 4000MHz	dB		27.0	
f = 6000MHz	dB		26.5	
$P_{1dB}$				
f = 50MHz	dBm		+17.7	
f = 500MHz	dBm		+18.3	
f = 2000MHz	dBm		+18.5	
f = 4000MHz	dBm		+15.3	
f = 6000MHz	dBm		+10.7	
IP3	dBm		+31.0	
Noise Figure	dB		5.5	
VSWR				
Input VSWR			1.7:1	
Output VSWR			1.8:1	
DC Power Supply	V	9	12	15
Supply Current	mA		130	

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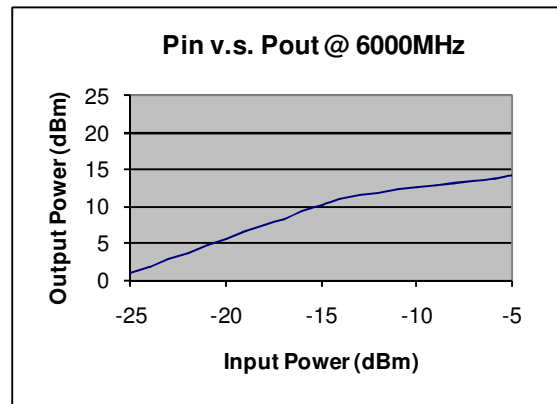
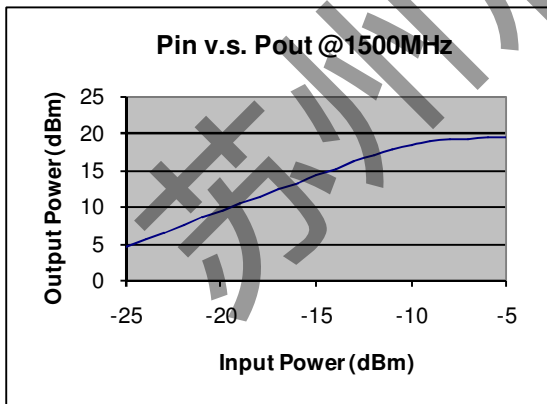
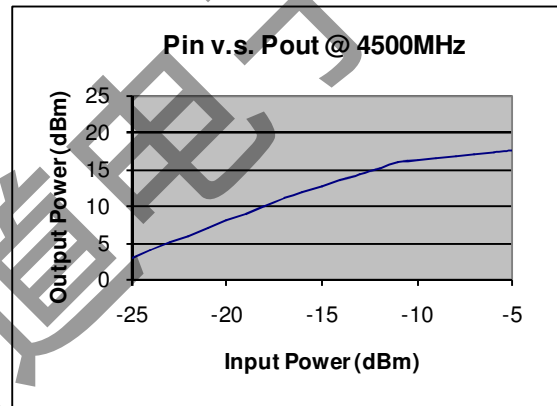
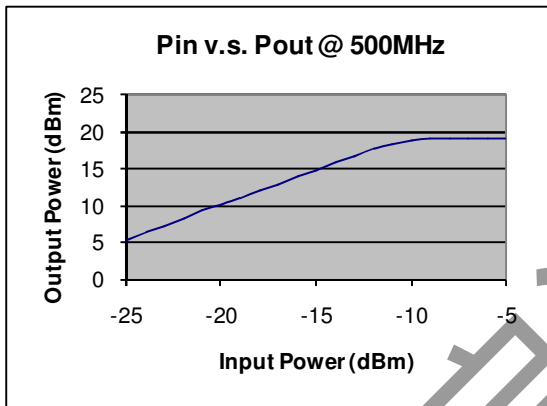
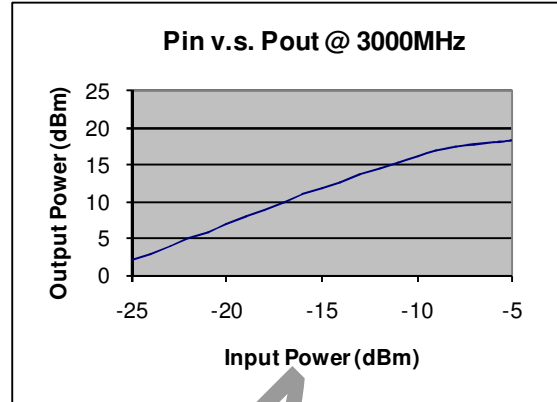
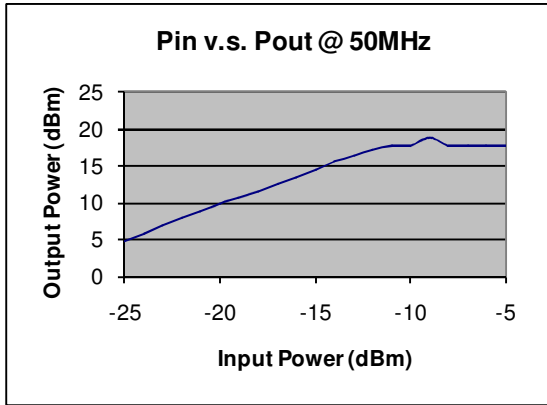
### Typical Performance @ +25 °C



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**Typical Performance @ +25 °C**



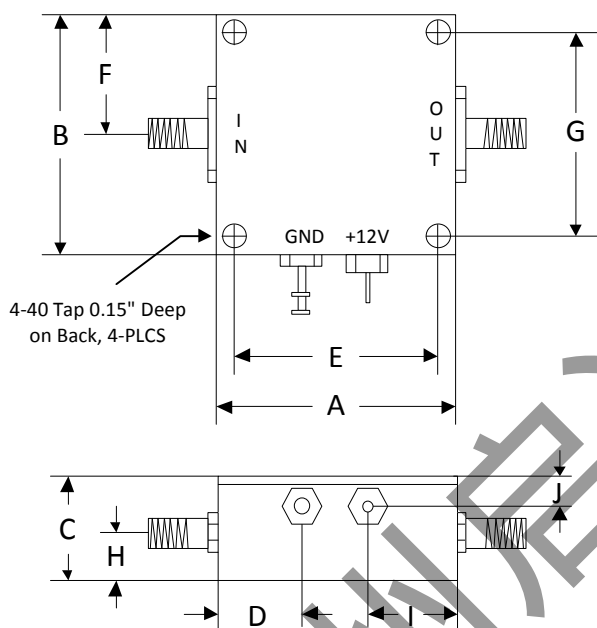
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
Supply Voltage	+25V
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
<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