

### Features

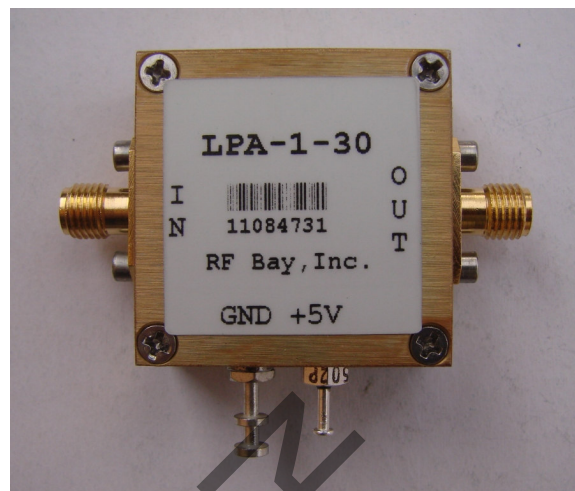
- Frequency Range: 5-1000MHz
- Gain: 32dB
- P<sub>1dB</sub>: +8.5dBm
- IP3: +19dBm
- Noise Figure: 3.5dB
- DC Power: 5V/25mA
- SMA Connector

Performance Test @ 500MHz

### Description

LPA-1-30 is a wideband low voltage RF Amplifier operates with frequency range from 5MHz to 1000MHz.

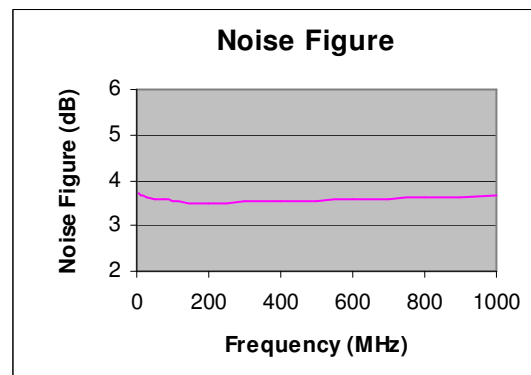
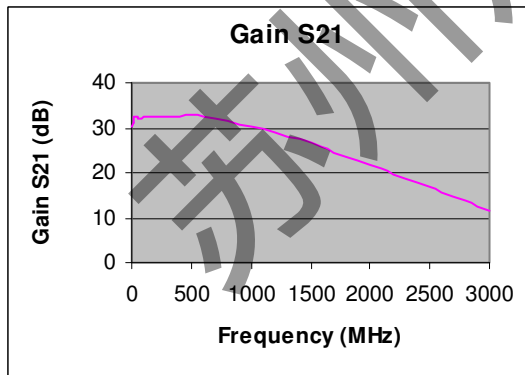
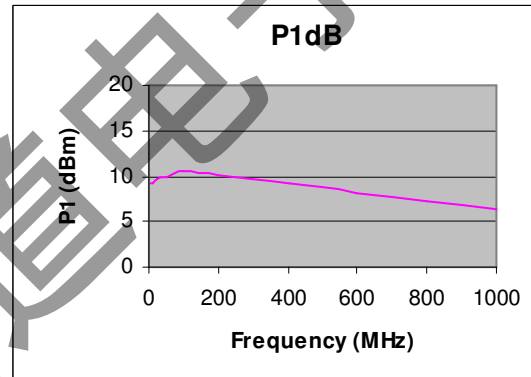
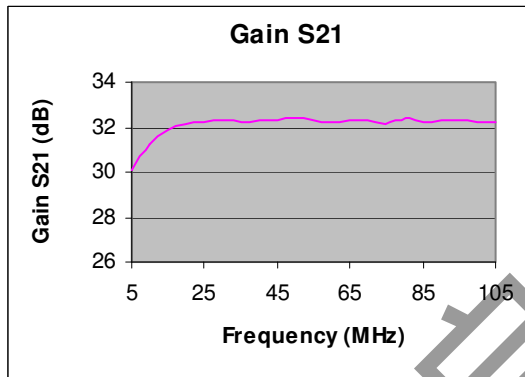
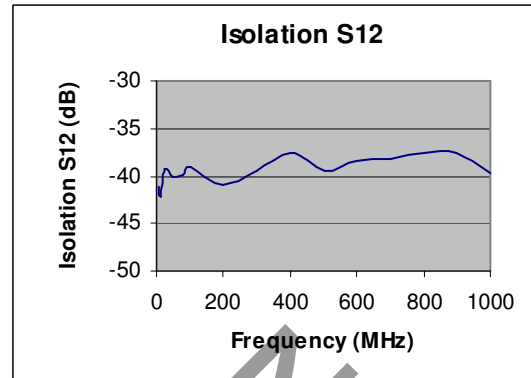
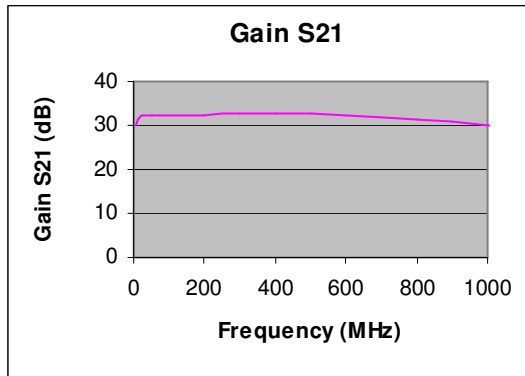
### Picture



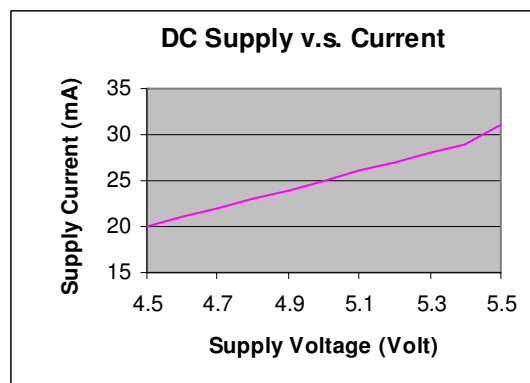
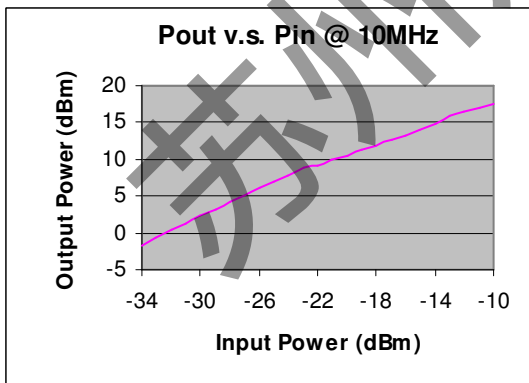
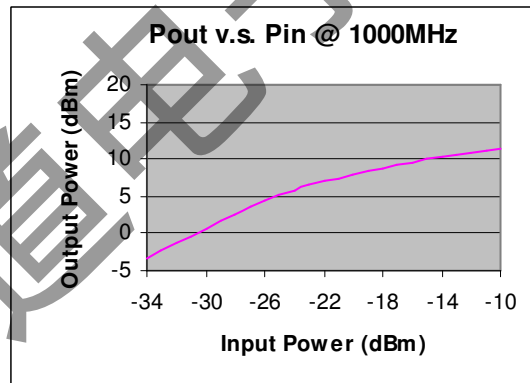
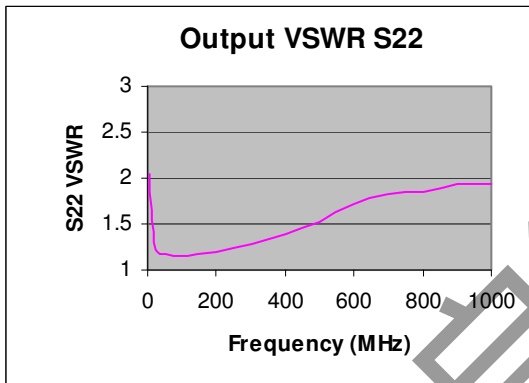
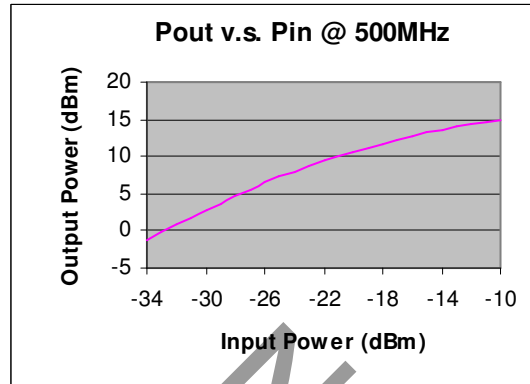
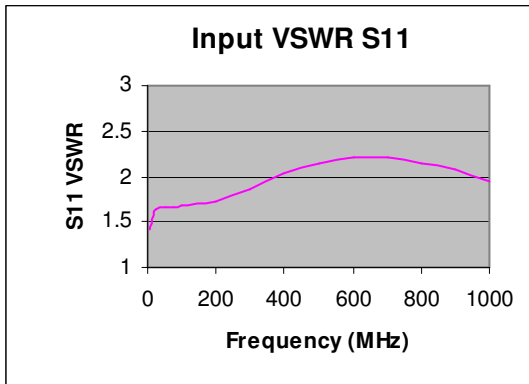
### Electrical Specifications @ +25 °C, Z<sub>S</sub> = Z<sub>L</sub> = 50 Ω, V<sub>cc</sub> = +5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	5		1000
Gain				
f = 5 MHz	dB		30	
f = 100 MHz	dB		32	
f = 500 MHz	dB		32	
f = 1000MHz	dB		30	
P <sub>1dB</sub> at 500MHz	dBm		+8.5	
P <sub>SAT</sub> at 500MHz	dBm		+14	
IP3 at 500MHz	dBm		+19	
Noise Figure at 500MHz	dB		3.5	5.0
Reverse Isolation	dB		-39	
VSWR				
Input VSWR			2.2:1	
Output VSWR			1.5:1	
DC Power Supply	V	4.5	5.0	5.5
Supply Current	mA		25	

**Typical Performance @ +25 °C**



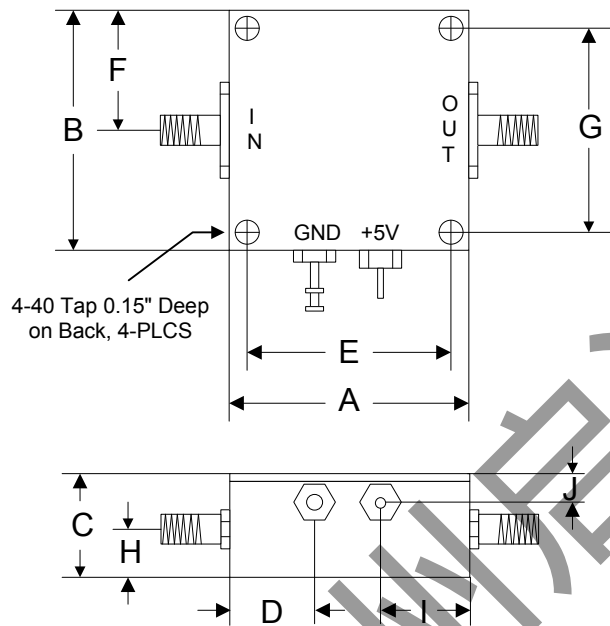
**Typical Performance @ +25 °C**



## Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
Supply Voltage	+6V
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