

## LPA Series

## 800 – 1000MHz RF Amplifier

### Features

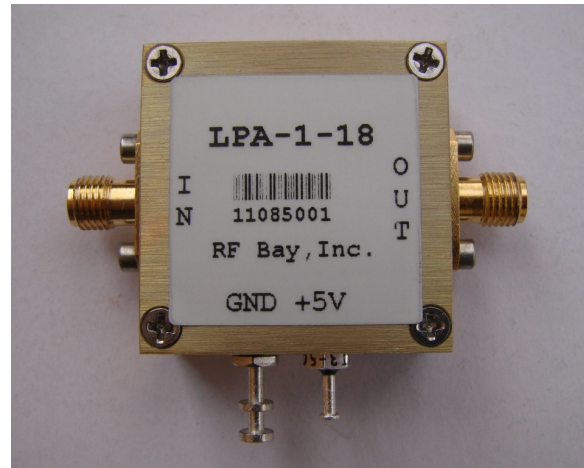
- Frequency Range: 800-1000MHz
- Gain: 18.5dB
- P<sub>1dB</sub>: +27dBm
- IP3: +37dBm
- Noise Figure: 4.2dB
- DC Power: 5V
- SMA Connector

Performance at 900MHz

### Description

LPA-1-18 is a 500mW RF Amplifier operates with frequency range from 800 to 1000MHz.

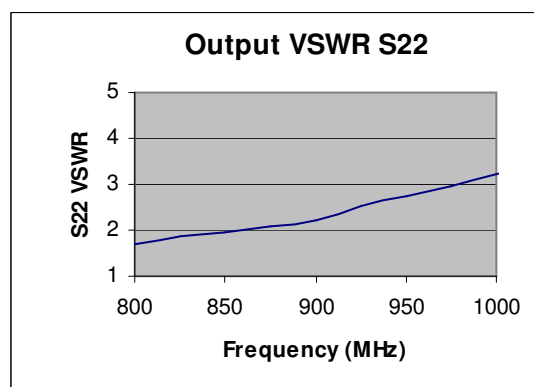
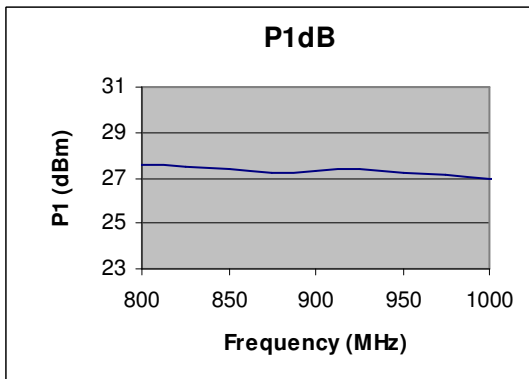
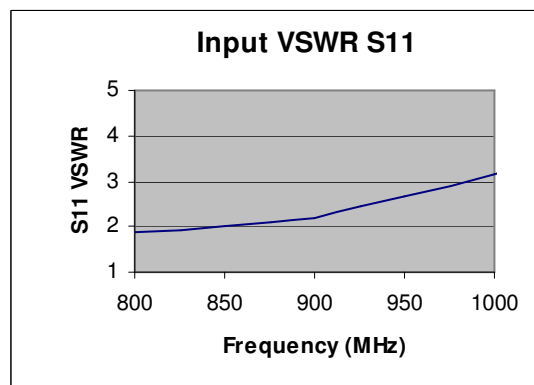
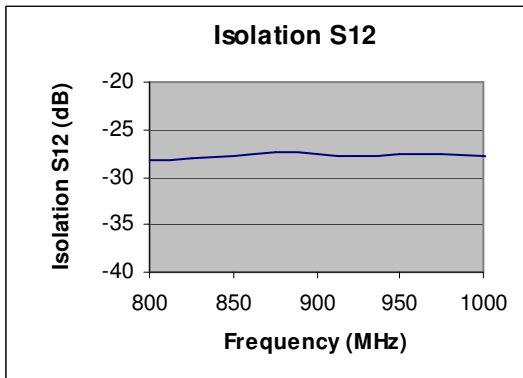
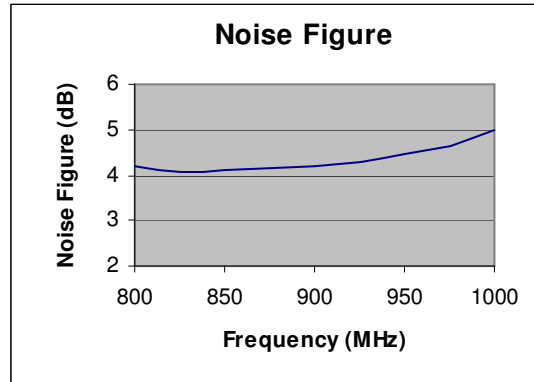
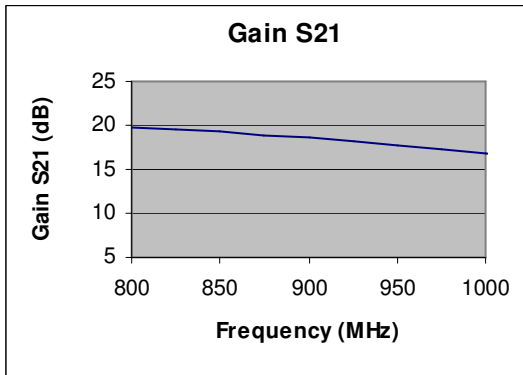
### Picture



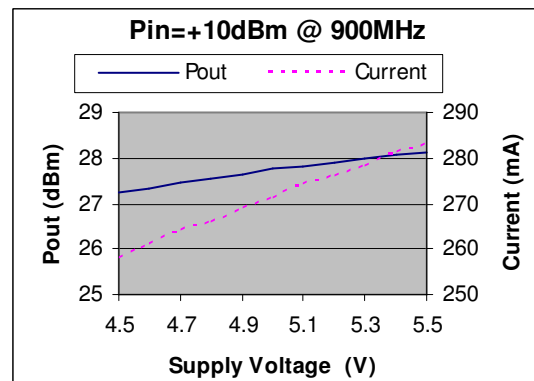
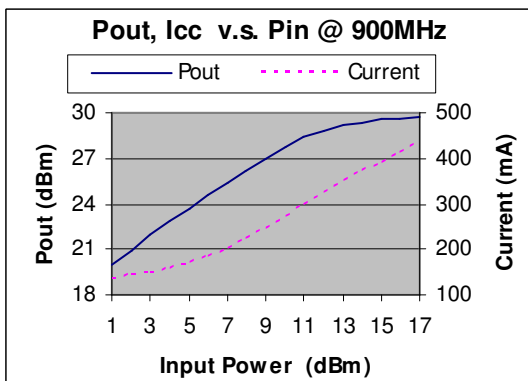
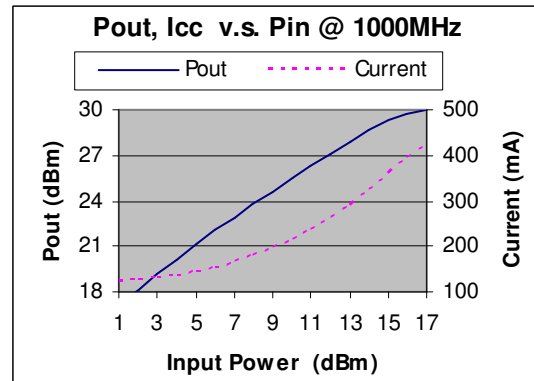
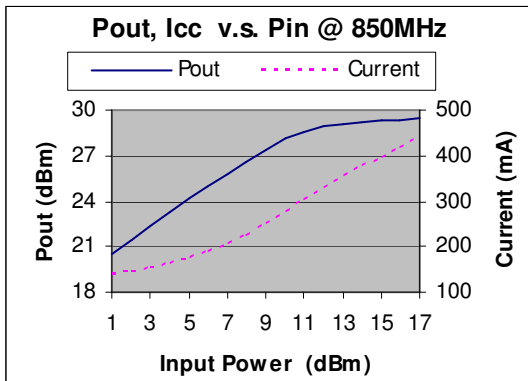
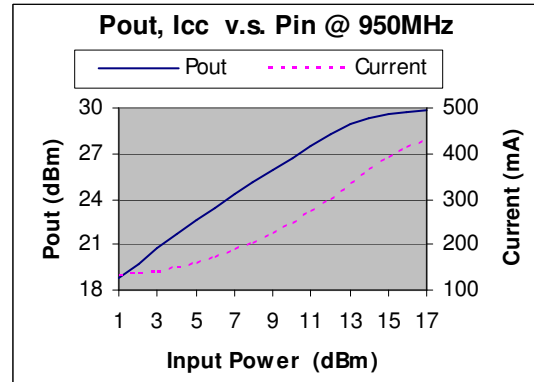
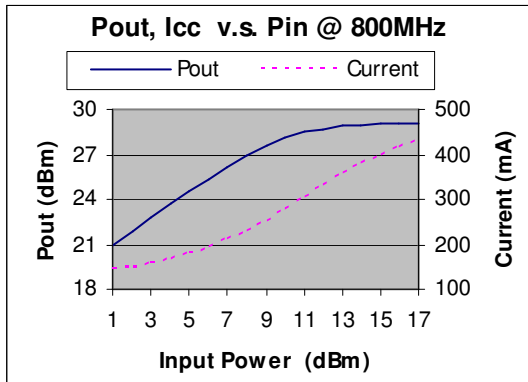
### Electrical Specifications @ +25 °C, Z<sub>S</sub> = Z<sub>L</sub> = 50 Ω, V<sub>cc</sub>=+5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	800		1000
Gain f = 800MHz	dB		19.5	
f = 850MHz	dB		19.0	
f = 900MHz	dB		18.5	
f = 950MHz	dB		17.5	
f = 1000MHz	dB		16.5	
P <sub>1dB</sub>	dBm		+27	
IP3	dBm		+37	
Noise Figure	dB		4.2	5.0
Reverse Isolation	dB		-27	
VSWR Input VSWR			2.2:1	
Output VSWR			2.2:1	
DC Power Supply	V	4.5	5.0	5.5
Supply Current Quiescent (no RF)	mA		100	
@ P <sub>1dB</sub> = +27dBm	mA		250	

### Typical Performance @ +25 °C



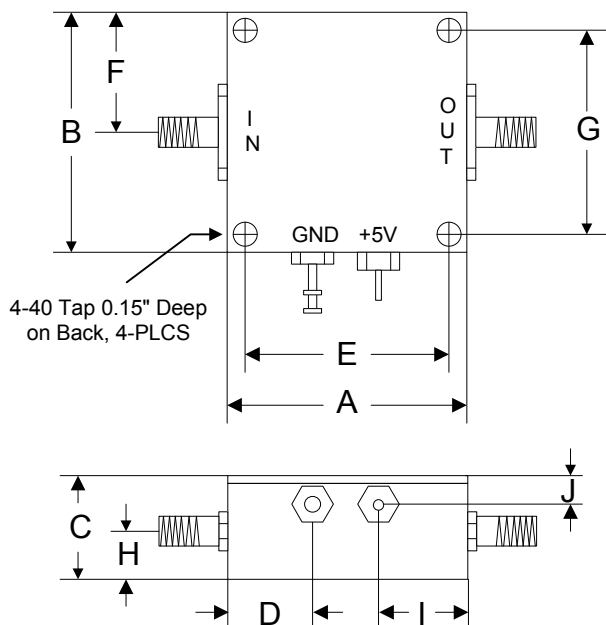
### Typical Performance @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+6.0V
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