

## LPA Series

## 50MHz – 2500MHz RF Amplifier

### Features

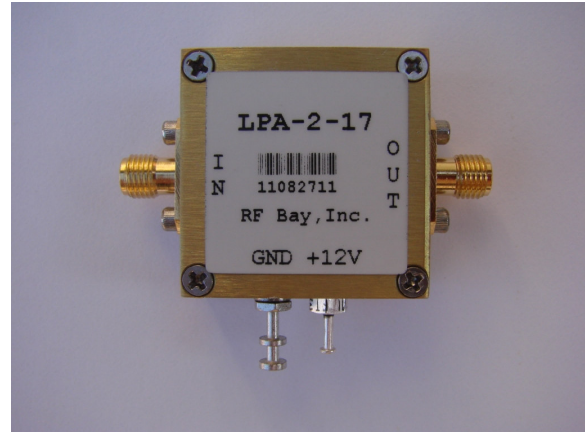
- Frequency Range: 50-2500MHz
- Gain: 17dB
- P<sub>1dB</sub>: +18.5dBm
- IP3: +32.5dBm
- Noise Figure: 4dB
- DC Power: 12V/85mA
- SMA Connector

Performance Test @ 2500MHz

### Description

LPA-2-17 is a wideband response RF Amplifier operates with frequency range from 50MHz to 2500MHz.

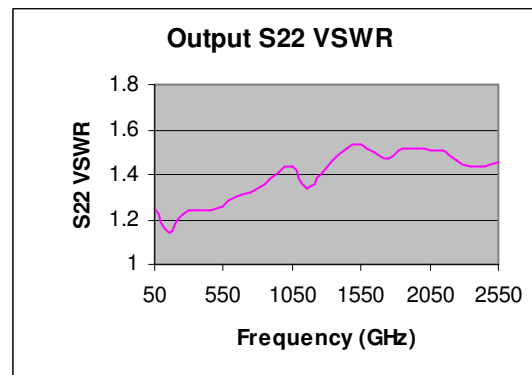
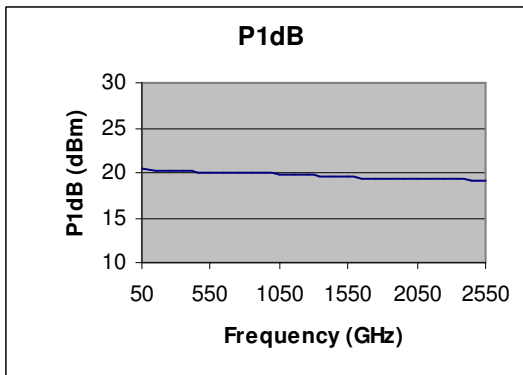
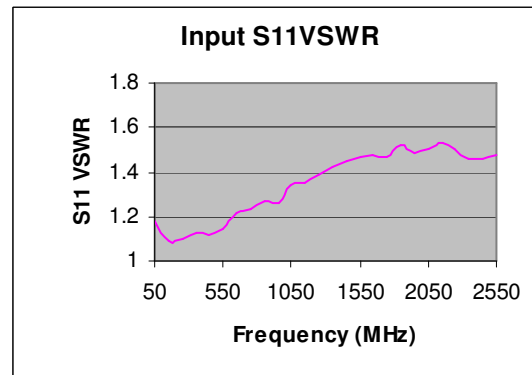
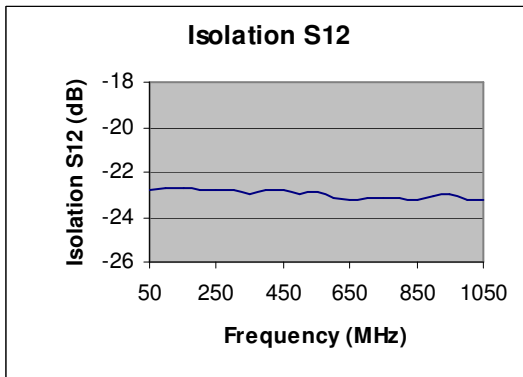
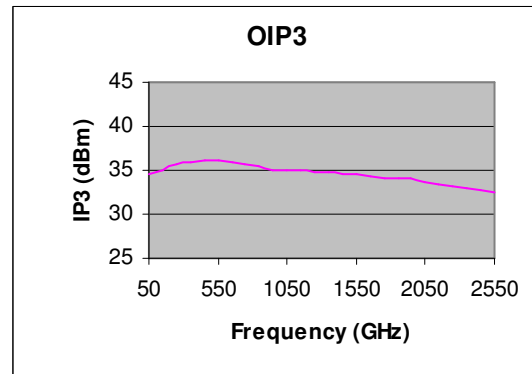
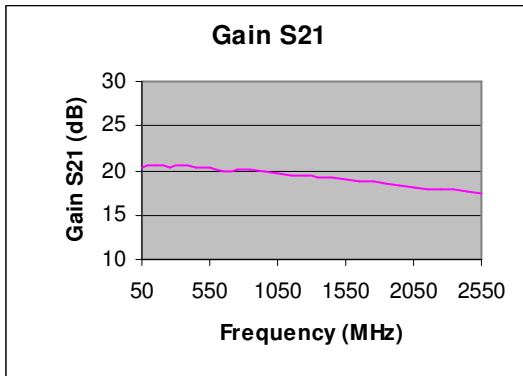
### Picture



### Electrical Specifications @ +25 °C, Z<sub>S</sub> = Z<sub>L</sub> = 50 Ohms, V<sub>cc</sub>=+12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		2500
Gain				
f = 50 MHz	dB		20.3	
f = 500 MHz	dB		20.4	
f = 1000 MHz	dB		19.8	
f = 2500 MHz	dB		17.5	
P <sub>1dB</sub> at 2500MHz	dBm		+18.5	
IP3 at 2500MHz	dBm		+32.5	
Noise Figure at 2500MHz	dB		4.0	4.5
Reverse Isolation	dB		-24	
VSWR				
f = 50-2500MHz				
Input VSWR			1.5:1	
Output VSWR			1.5:1	
DC Power Supply	V	10	12	18
Supply Current	mA		85	

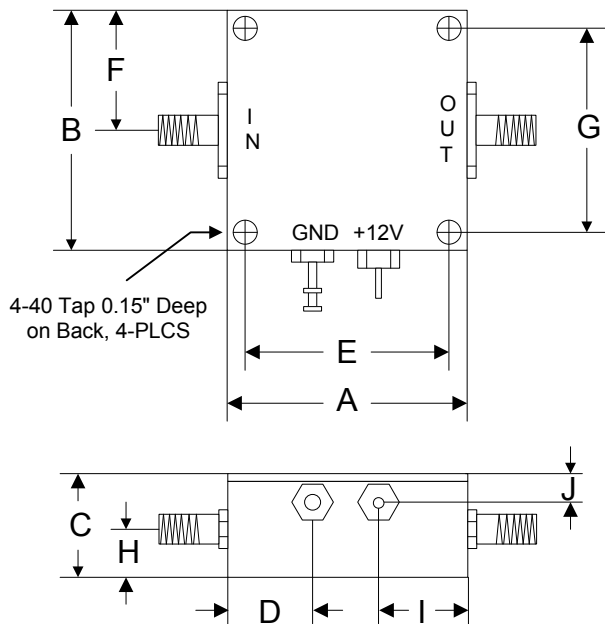
### Typical Performance @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
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