

## LPA Series

## DC – 4000MHz RF Amplifier

### Features

- Frequency Range: 10-4000MHz
- Gain: 18dB
- P<sub>1dB</sub>: +18.5dBm
- IP3: +34dBm
- Noise Figure: 3.5dB
- DC Power: 12V
- SMA Connector

Performance measured @ 2000MHz

### Description

LPA-4-14 is a wideband Low Power RF Amplifier operates with frequency range from 10MHz to 4000MHz.

### Picture



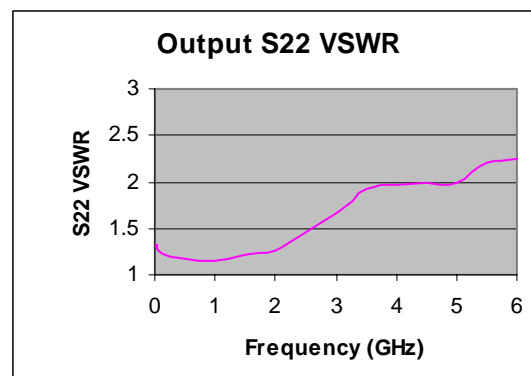
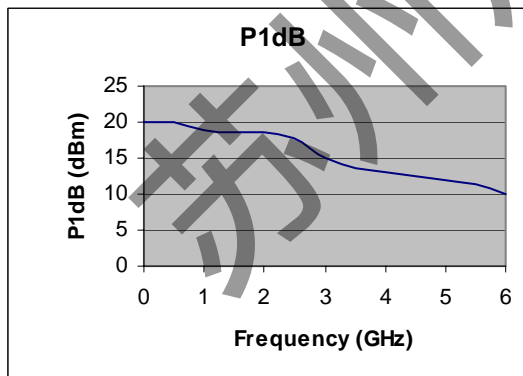
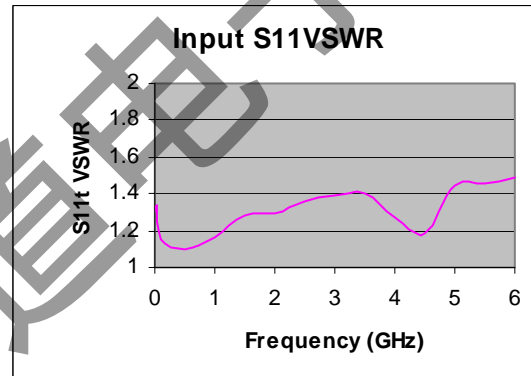
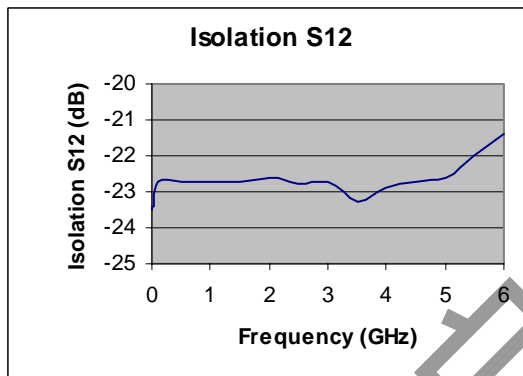
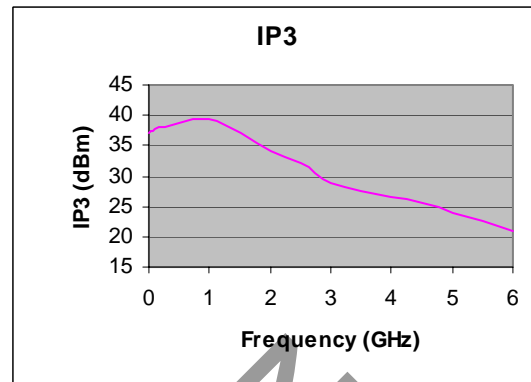
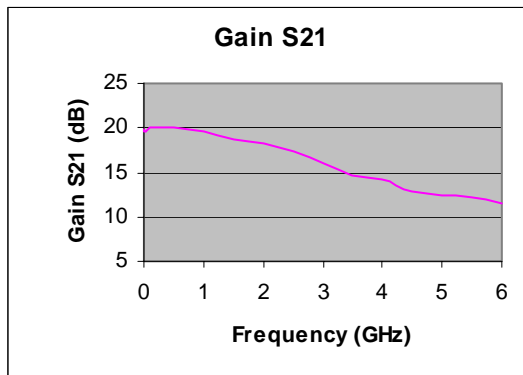
### Electrical Specifications @ +25 °C, Z<sub>S</sub> = Z<sub>L</sub> = 50 Ohms

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		4000
Gain	f = 100MHz	dB	20	
	f = 2000MHz	dB	18.2	
	f = 4000MHz	dB	14.6	
P <sub>1dB</sub>	f = 100MHz	dBm	+20	
	f = 2000MHz	dBm	+18.5	
	f = 4000MHz	dBm	+13	
IP3	f = 100MHz	dBm	+37.7	
	f = 2000MHz	dBm	+34	
	f = 4000MHz	dBm	+25	
Noise Figure f = 2000MHz	dB		3.5	
VSWR	f = 100-4000MHz			
	Input VSWR		1.5:1	
	Output VSWR		2.0:1	
DC Power Supply	V	9	12	15
Supply Current	mA		80	

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### Typical Performance @ +25 °C



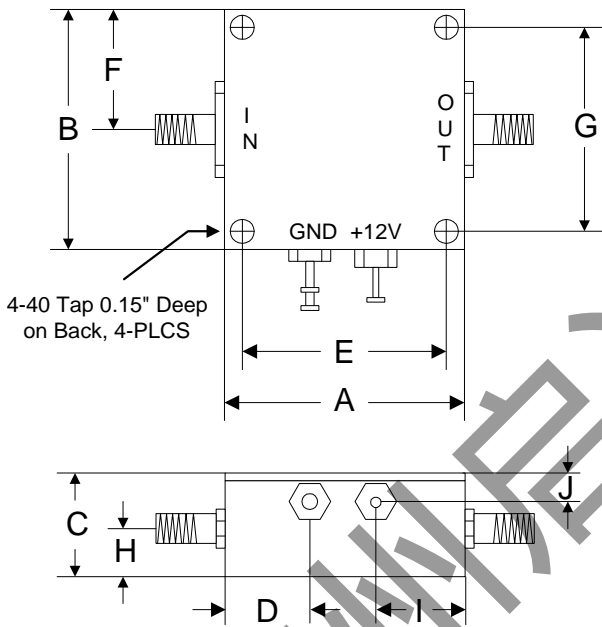
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+16V
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