

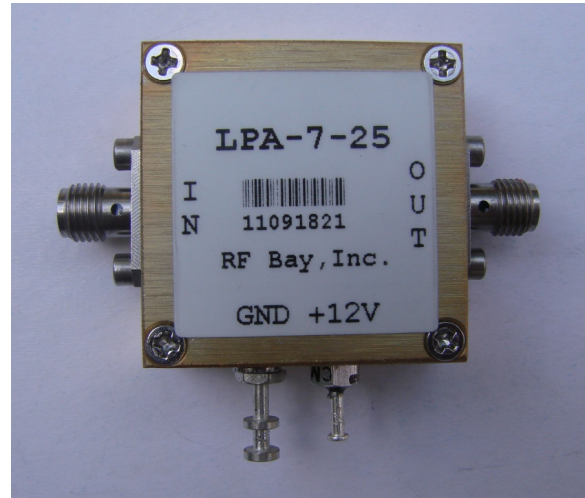
LPA Series

100KHz – 7000MHz RF Amplifier

Features

- Frequency Range:0.1-7000MHz
- Gain: 35dB
- P_{1dB}: +19dBm
- IP3: +31dBm
- Noise Figure: 4.2dB
- DC Power: 12V/130mA
- SMA Connector

Picture



Performance at 2000MHz

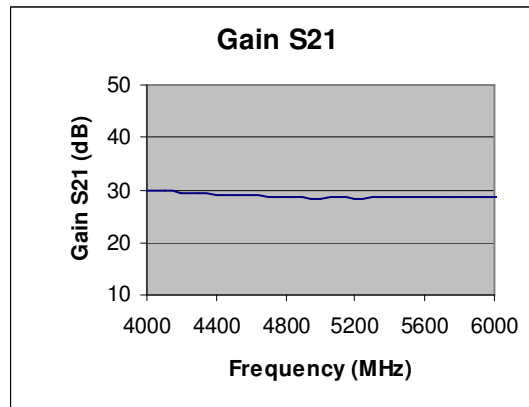
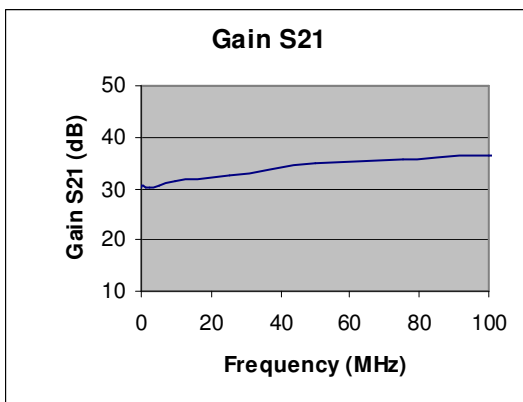
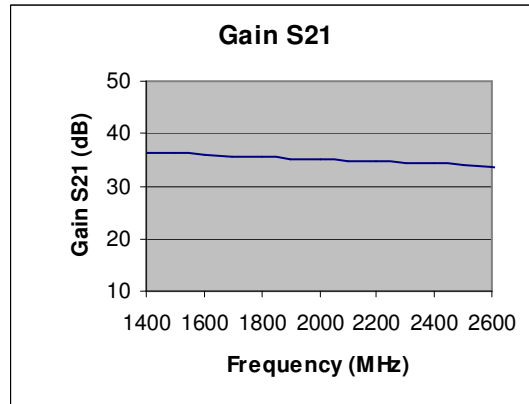
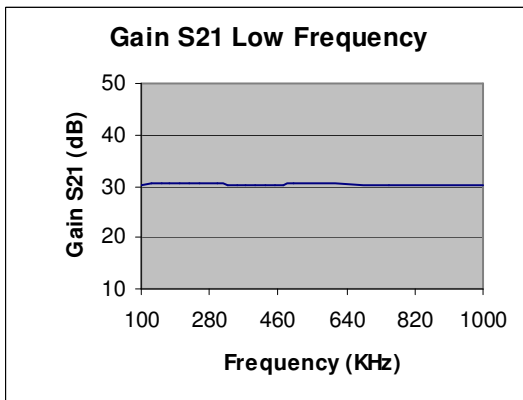
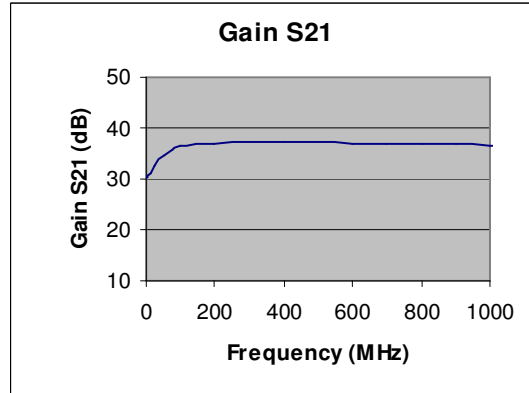
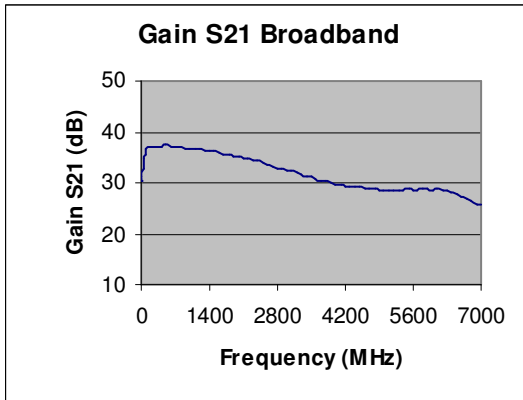
Description

LPA-7-25 is a wideband high gain RF Amplifier operates with frequency range from 100KHz to 7000MHz.

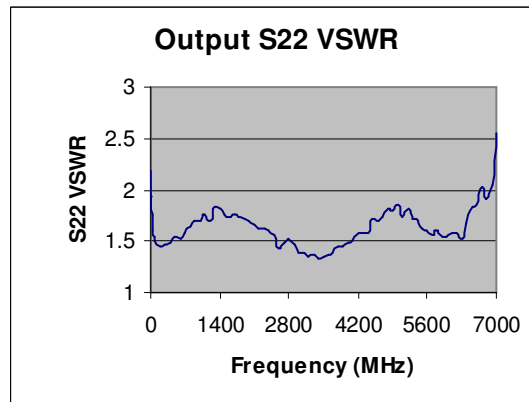
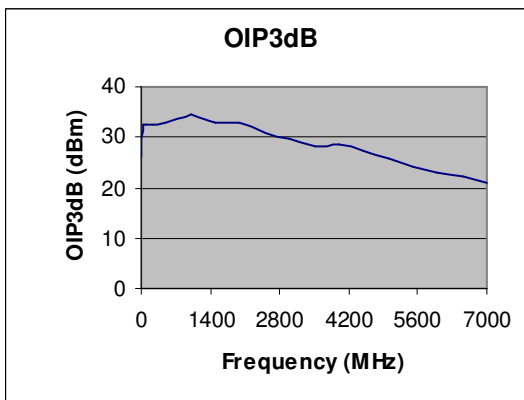
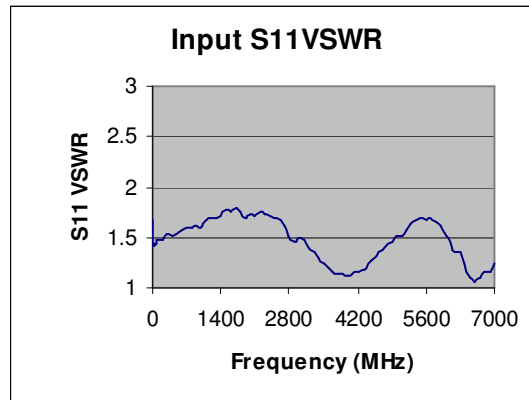
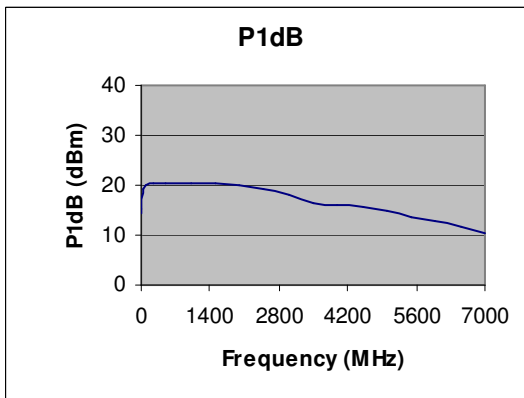
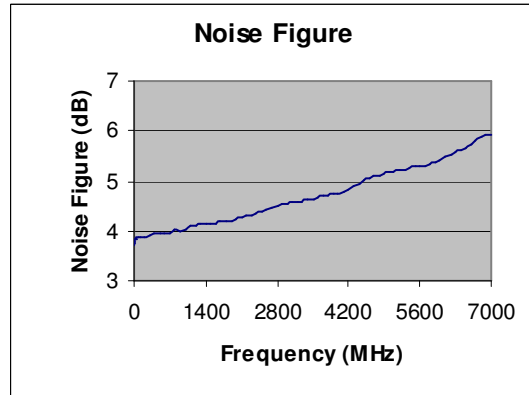
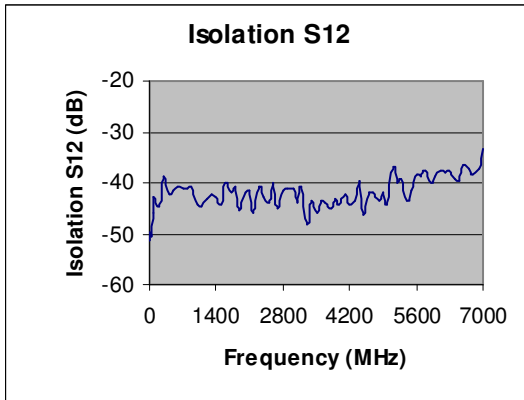
Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ω, V_{cc}=+12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	0.1		7000
Gain				
f = 100KHz	dB		30.0	
f = 50MHz	dB		34.5	
f = 500MHz	dB		37.0	
f = 1000MHz	dB		36.5	
f = 2000MHz	dB		35.0	
f = 4000MHz	dB		30.0	
f = 5500MHz	dB		28.5	
f = 7000MHz	dB		25.5	
P _{1dB} at 2000MHz	dBm		+19	
IP3 at 2000MHz	dBm		+31	
Noise Figure at 2000MHz	dB		4.2	
Reverse Isolation at 2000MHz	dB		-42	
VSWR				
Input VSWR			1.7:1	
Output VSWR			1.7:1	
DC Power Supply	V	10	12	15
Supply Current	mA		130	

Typical Performance @ +25 °C



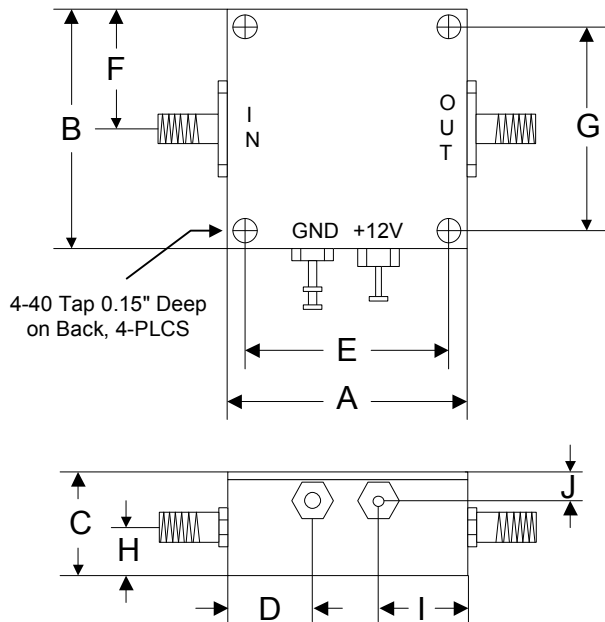
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+18V
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