

LPA Series

DC – 6000MHz RF Amplifier

Features

- Frequency Range: 100-6000MHz
- Gain: 15dB
- P_{1dB}: +12.5dBm
- IP3: +26dBm
- Noise Figure: 4dB
- DC Power: 12V
- SMA Connector

Performance measured @ 2000MHz

Description

LPA-6-12 is a wideband Low Power RF Amplifier operates with frequency range from 100MHz to 6000MHz.

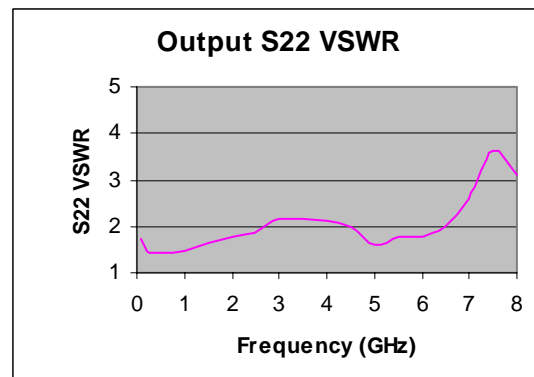
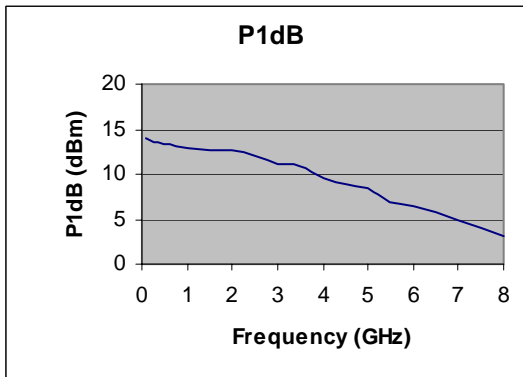
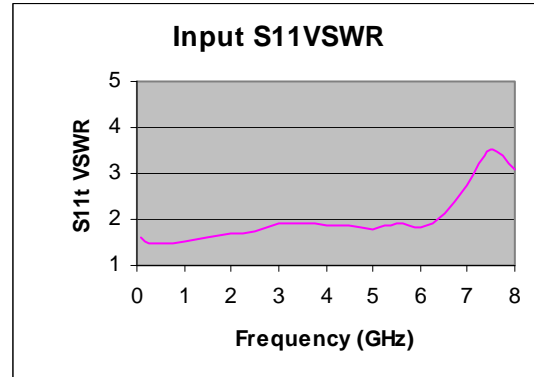
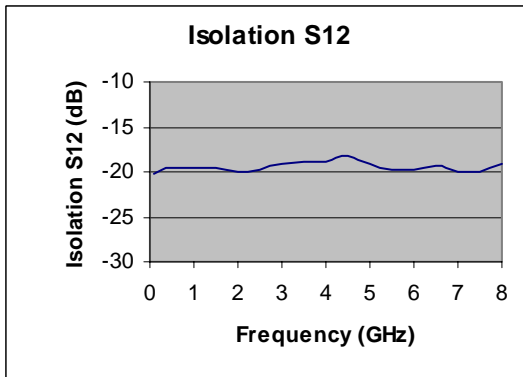
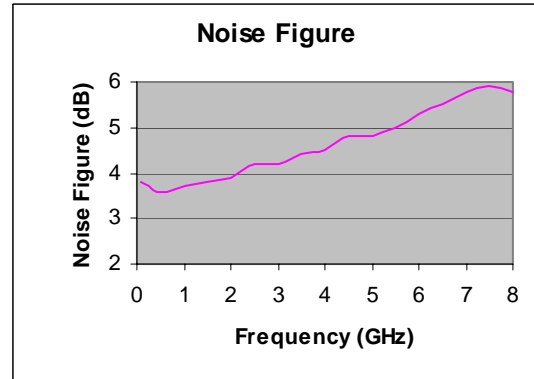
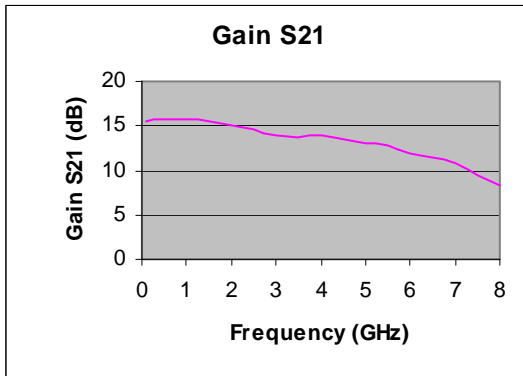
Picture



Electrical Specifications @ +25 °C, Z_S = Z_L = 50 Ohms

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	100		6000
Gain				
f = 100MHz	dB		15.4	
f = 2000MHz	dB		15.0	
f = 4000MHz	dB		14.0	
f = 6000MHz	dB		12.0	
P _{1dB}				
f = 100MHz	dBm		+14.0	
f = 2000MHz	dBm		+12.5	
f = 4000MHz	dBm		+9.5	
f = 6000MHz	dBm		+6.5	
IP3				
f = 2000MHz	dBm		+26	
Noise Figure				
f = 2000MHz	dB		4	
VSWR				
f = 100-6000MHz				
Input VSWR			2.0:1	
Output VSWR			2.3:1	
DC Power Supply	V	9	12	15
Supply Current	mA		40	

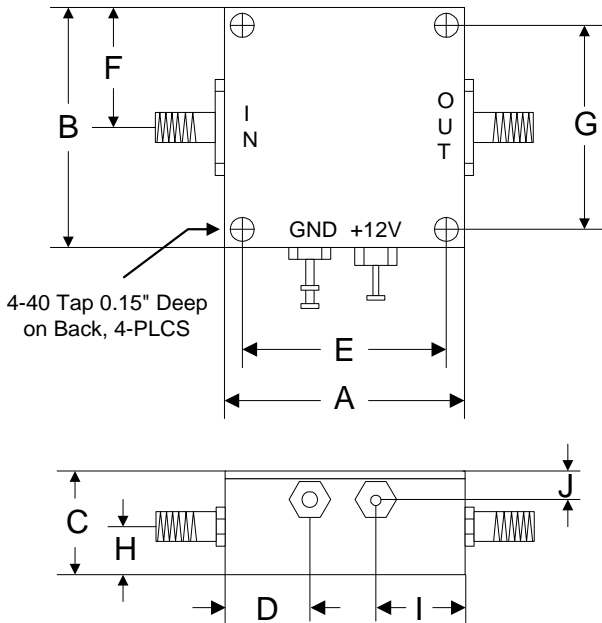
Typical Performance @ +25 °C



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
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