

LPA Series

100 – 7000MHz RF Amplifier

Features

- Frequency Range:100 – 7000MHz
- Gain: 24dB
- P_{1dB}: +16dBm
- IP3: +28dBm
- Noise Figure: 5.5dB
- Reverse Voltage Protection
- DC Power: 12V@130mA
- SMA-Female Connector

Photo



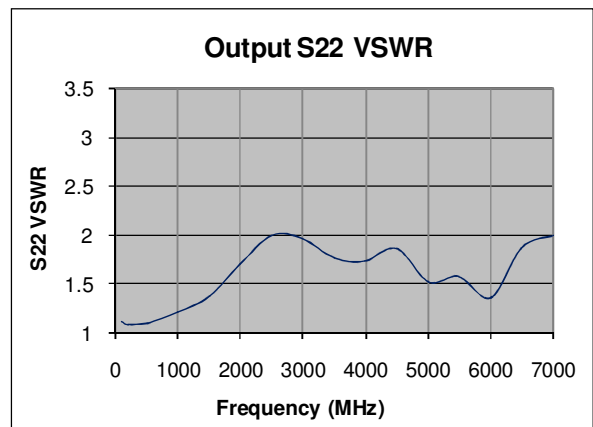
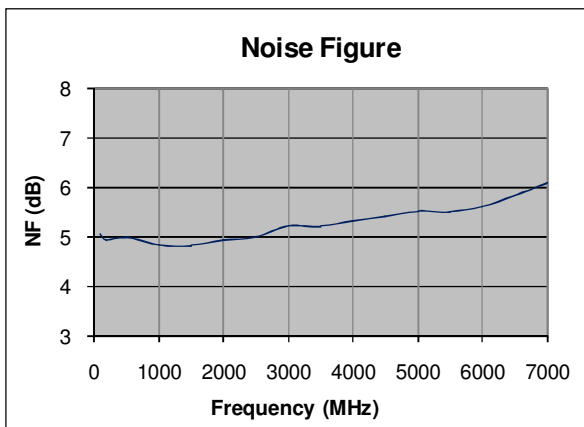
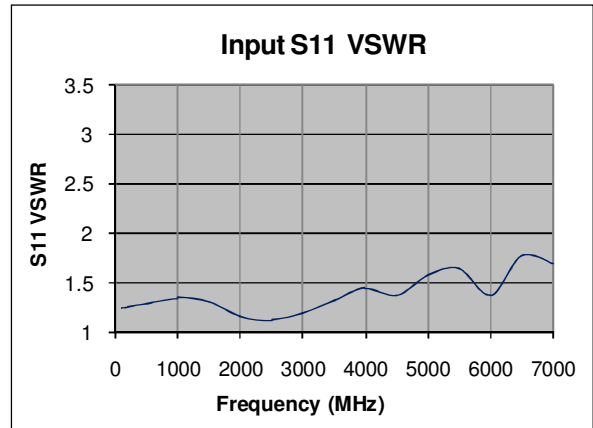
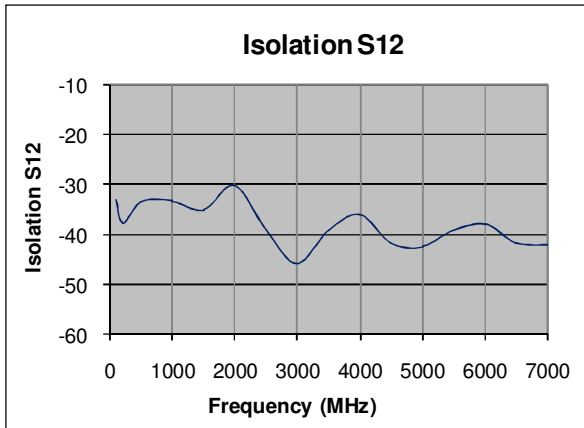
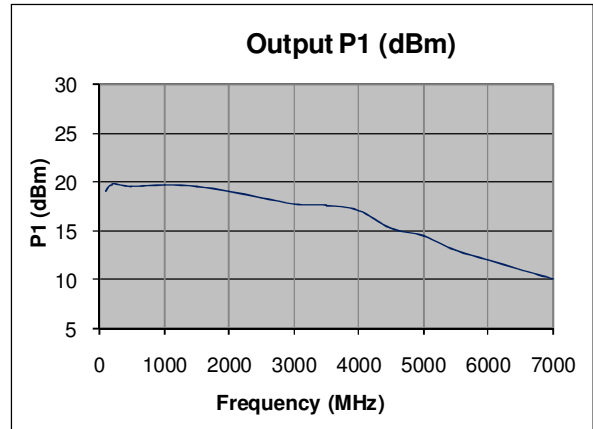
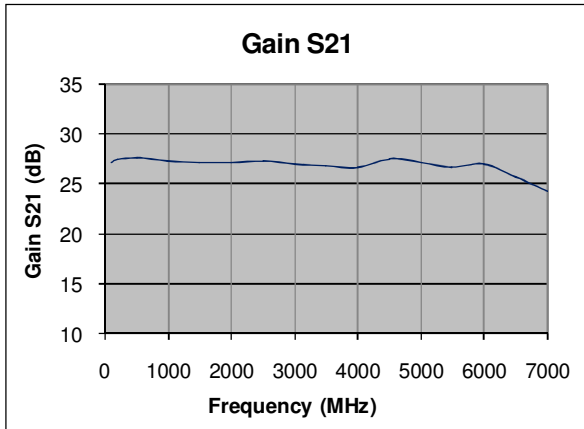
Description

LPA-7-24 is a wideband flat response RF Amplifier, with standard frequency range of 100MHz to 7000MHz.

Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	100		7000
Gain (S21)				
f=100MHz	dB		27.0	
f=250MHz	dB		27.5	
f=500MHz	dB		27.5	
f=1000MHz	dB		27.3	
f=3000MHz	dB		27.0	
f=5000MHz	dB		27.1	
f=7000MHz	dB		24.2	
Gain Flatness	dB		±1.5	±2.0
Output Power P _{1dB}	f=3500MHz dBm		+16	
Output IP3	f=3500MHz dBm		+28	
Noise Figure	dB		5.5	
Reverse Isolation (S12)	dB		-40	
VSWR-Input (S11)	ratio:1		1.3:1	
VSWR-Output (S22)	ratio:1		1.8:1	
DC Power Supply - voltage	V	10	12	15
DC Power Supply - current	mA		130	

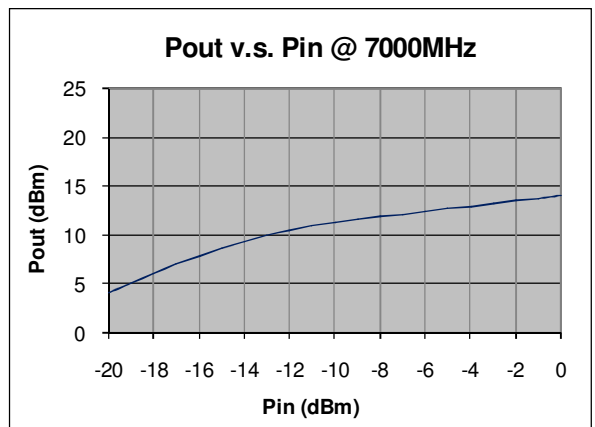
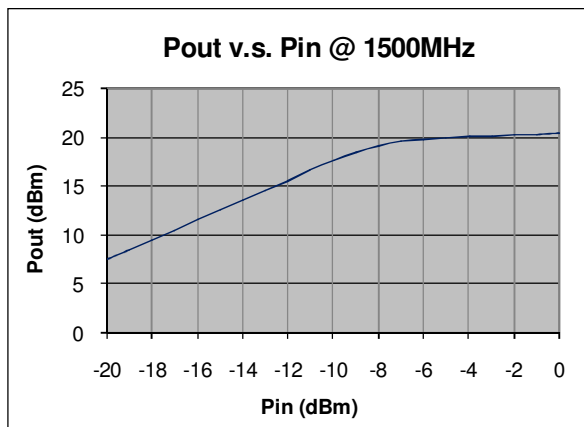
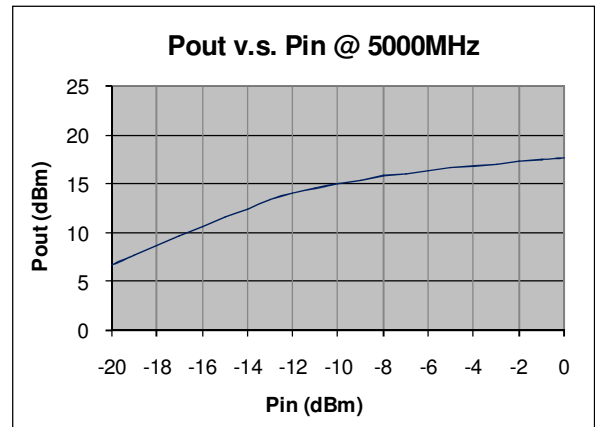
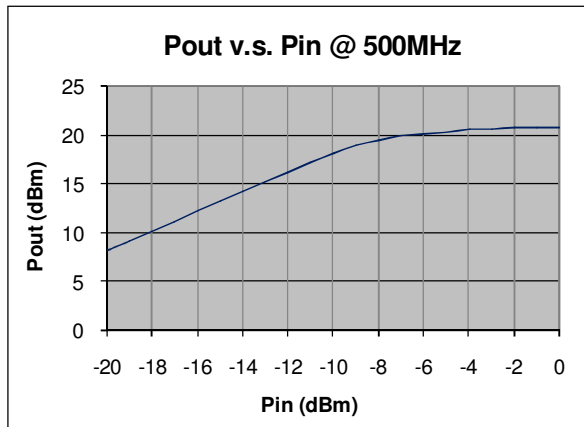
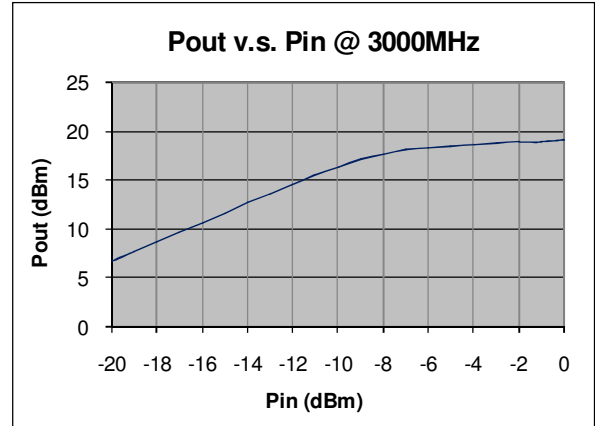
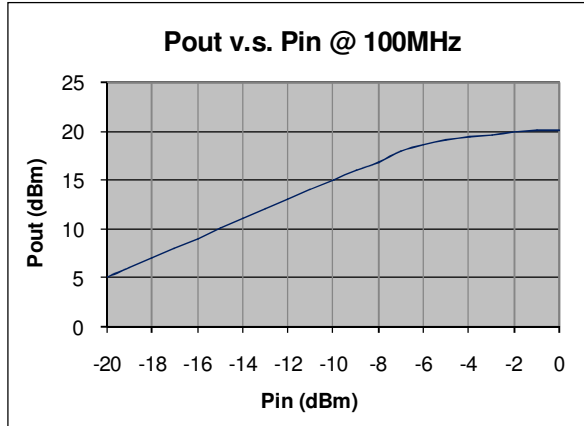
Typical Performance @ +25 °C



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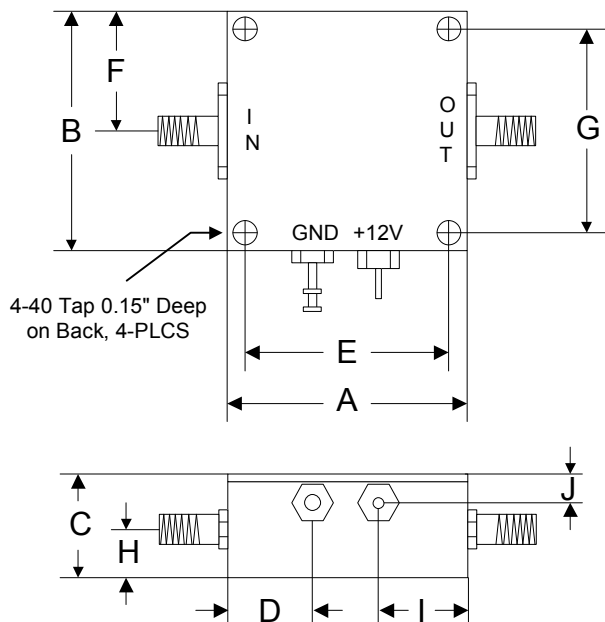
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage (Survival)	+25V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °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