

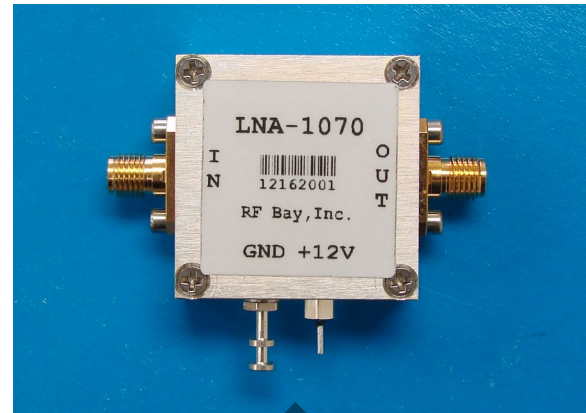
## LNA Series

## 30 – 1030MHz Low Noise Amplifier

### Features

- Frequency Range: 30 - 1030MHz
- Gain: 45dB
- P<sub>1dB</sub>: +25dBm
- IP3: +37dBm
- Noise Figure: 2dB
- DC Power: 12V/195mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

### Picture



### Description

LNA-1070 is a high dynamic range Low Noise Amplifier operates in frequency range from 30MHz to 1030MHz.

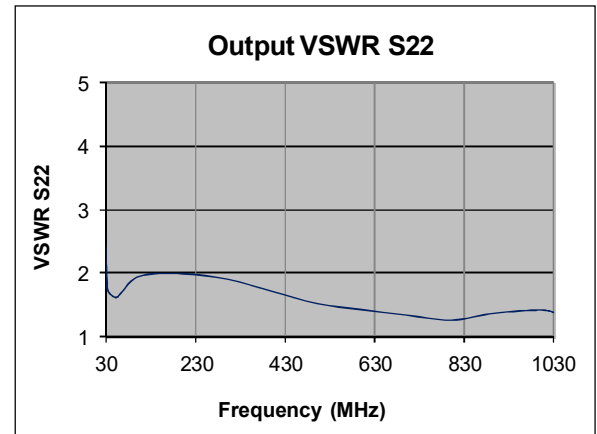
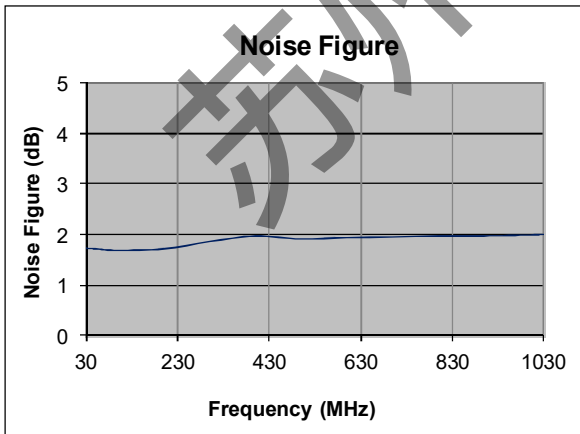
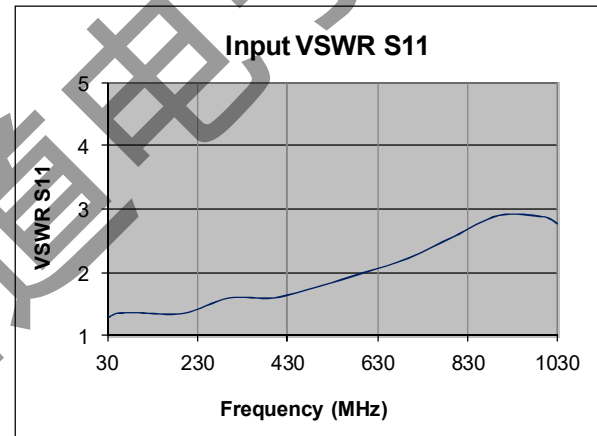
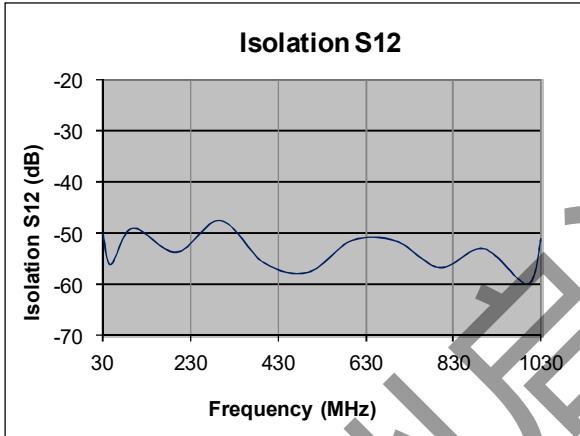
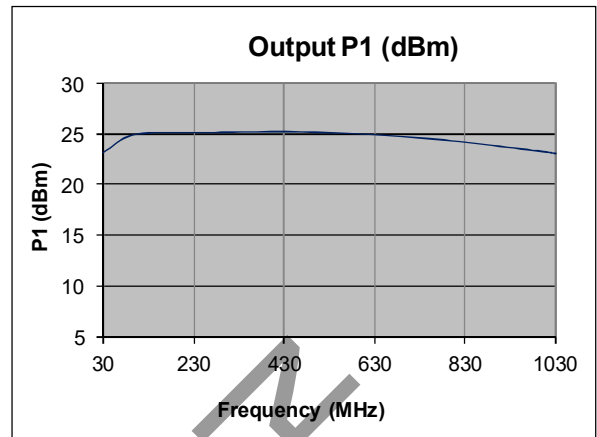
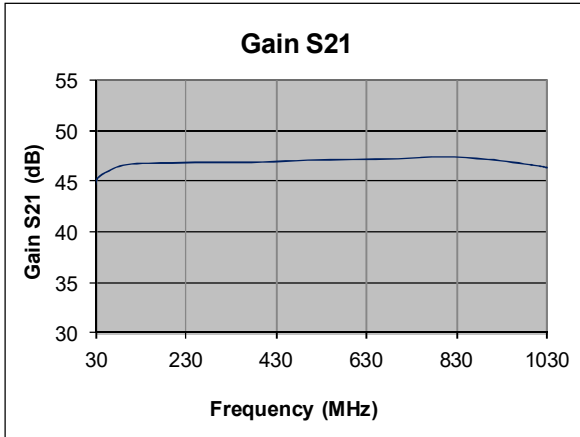
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>supply</sub> = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	30		1030
Gain S <sub>21</sub> f = 30MHz	dB		44.8	
f = 100MHz	dB		46.5	
f = 250MHz	dB		46.5	
f = 500MHz	dB		47.0	
f = 1000MHz	dB		46.5	
Gain Flatness	dB		± 1.2	
P <sub>1dB</sub>	dBm		+25	
IP3	dBm		+37	
Noise Figure	dB		2.0	
Reverse Isolation S <sub>12</sub>	dB		-50	
VSWR Input VSWR S <sub>11</sub>			1.9:1	
Output VSWR S <sub>22</sub>			1.5:1	
DC Power Supply	V		12	15
Supply Current	mA		195	

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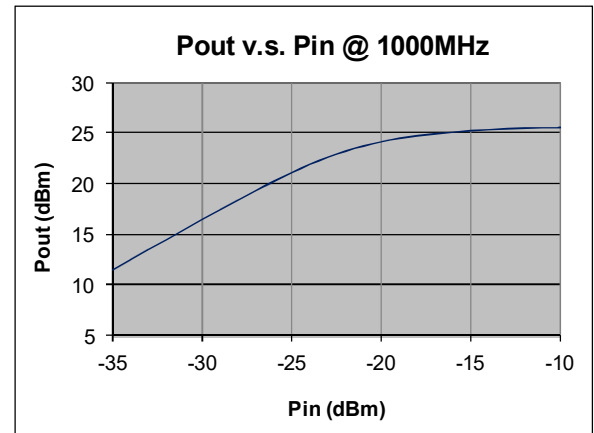
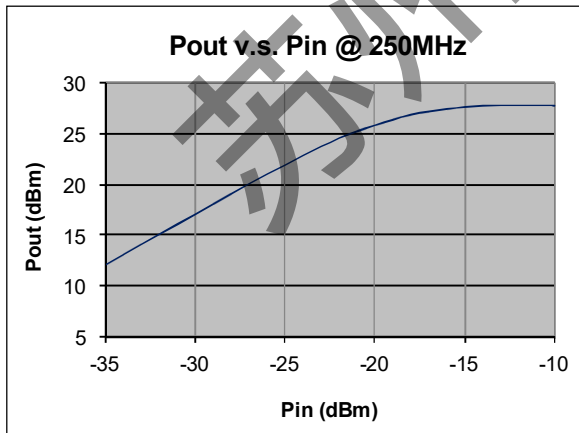
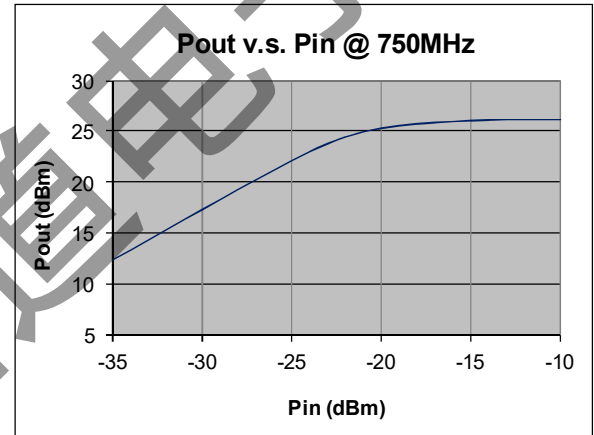
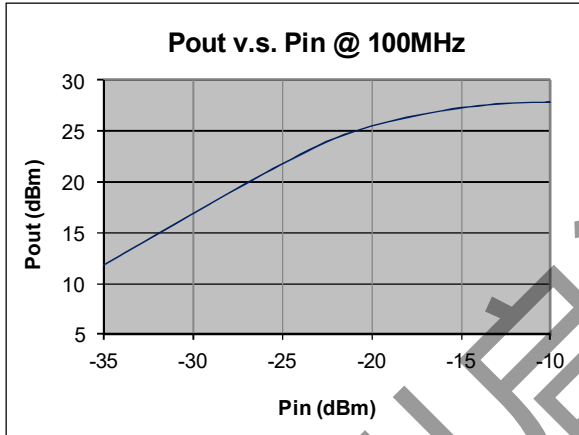
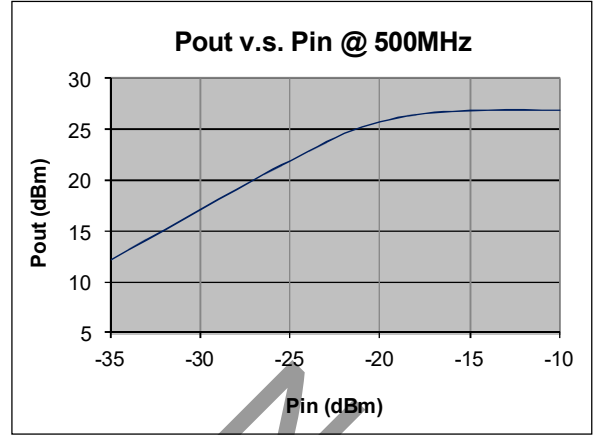
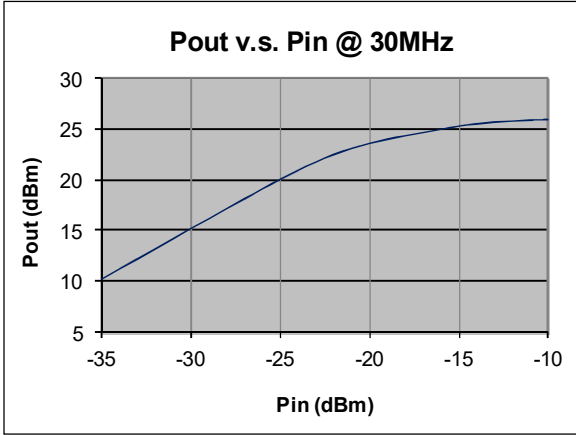
### Typical Performance @ +25 °C



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### Typical Performance @ +25 °C



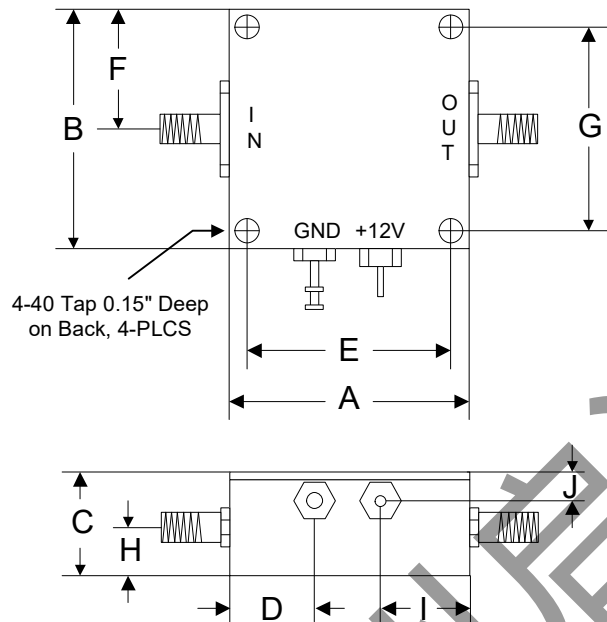
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+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

**WARNING: MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50 °C**