

## LNA Series

## 750 – 2500MHz Low Noise Amplifier

### Features

- Frequency Range: 750-2500MHz
- Gain: 40dB
- P<sub>1dB</sub>: +20dBm
- IP3: +33dBm
- Noise Figure: 1.0dB
- DC Power: 12V/140mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

### Picture



### Description

LNA-3010 is a 40dB Gain 1.0dB Noise Figure Low Noise Amplifier operates in frequency range from 750 to 2500MHz.

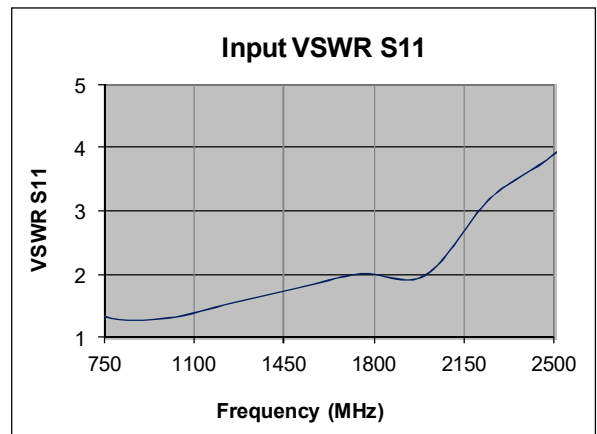
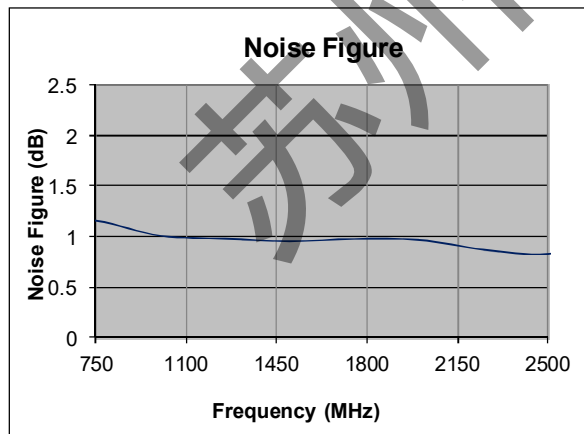
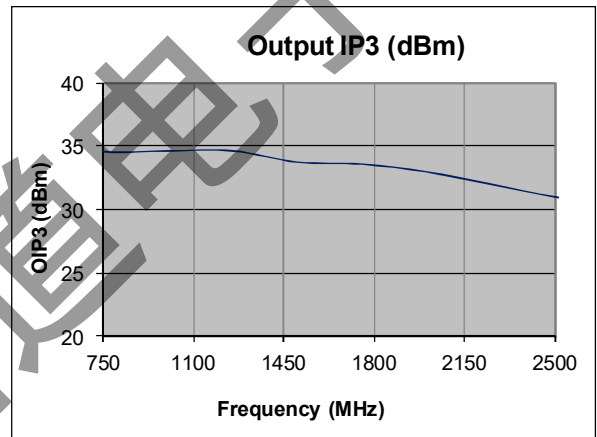
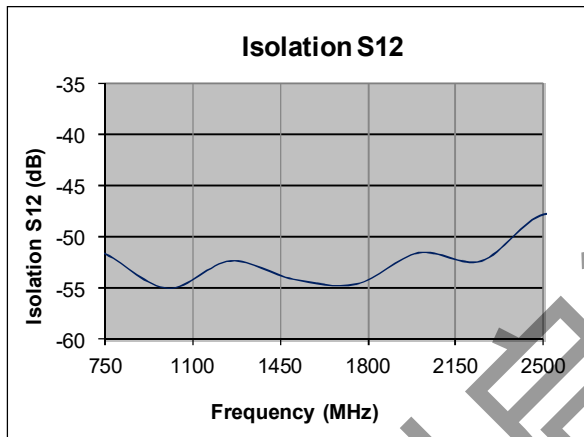
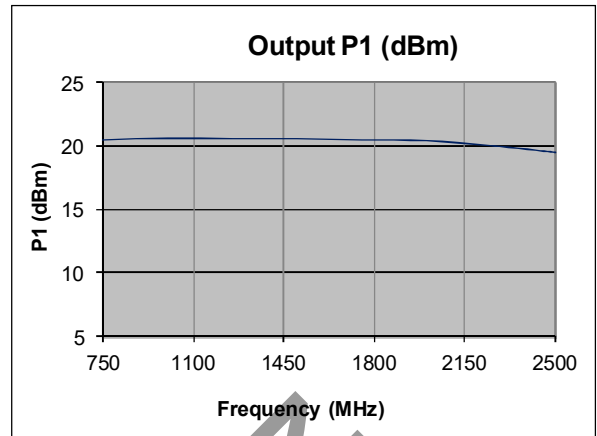
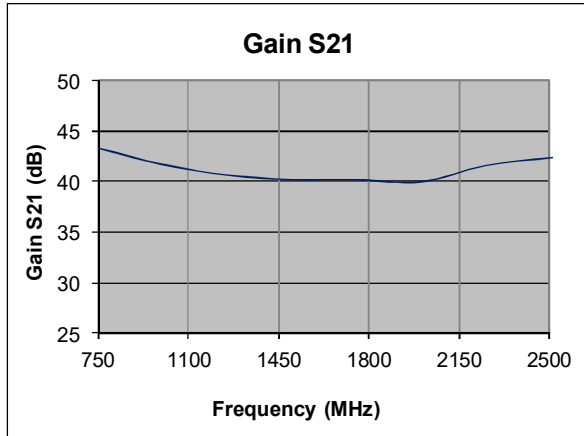
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>supply</sub> = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	750		2500
Gain S <sub>21</sub> f = 750MHz	dB		43.0	
f = 1000MHz	dB		41.5	
f = 1500MHz	dB		40.0	
f = 2000MHz	dB		40.0	
f = 2500MHz	dB		42.0	
Gain Flatness	dB		± 1.6	
P <sub>1dB</sub>	dBm		+20	
Output IP3	dBm		+33	
Noise Figure	dB		1.0	1.2
Reverse Isolation S <sub>12</sub>	dB		-50	
VSWR Input VSWR S <sub>11</sub>			1.8:1	
Output VSWR S <sub>22</sub>			1.3:1	
DC Power Supply	V	9	12	15
Supply Current	mA		140	

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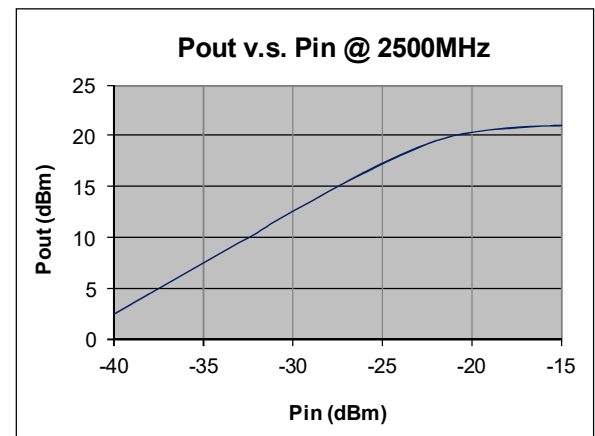
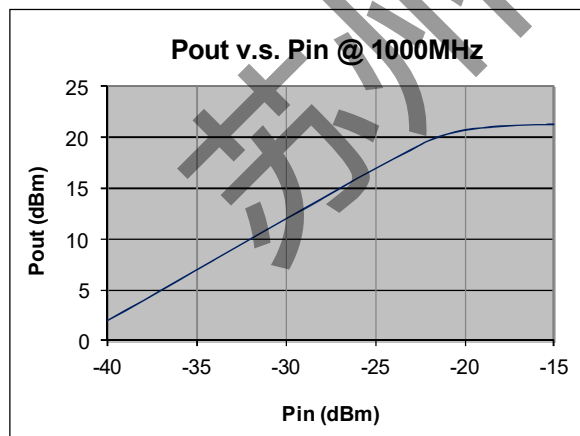
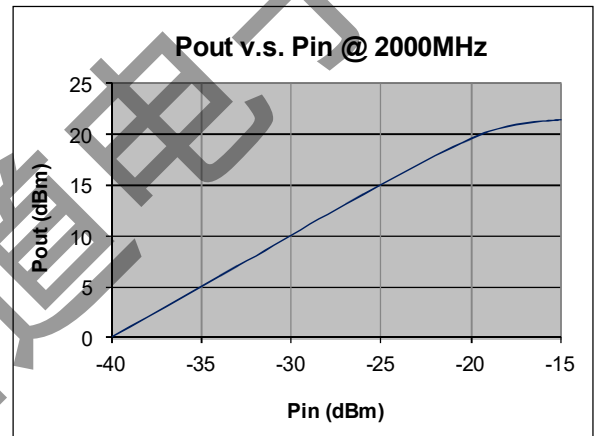
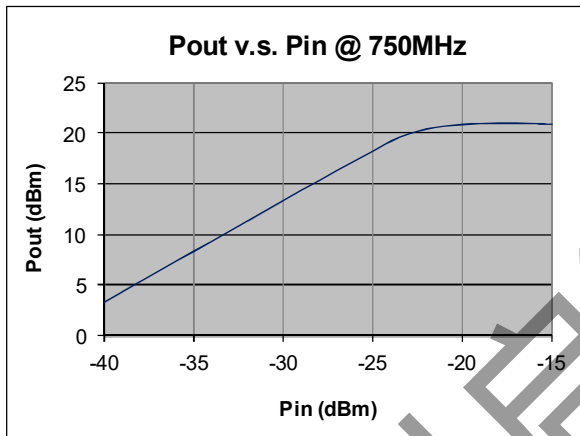
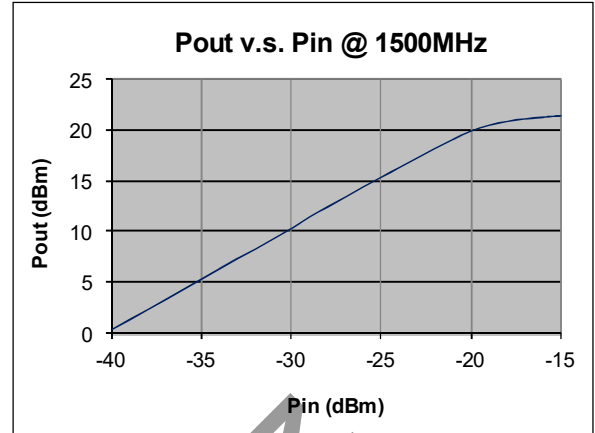
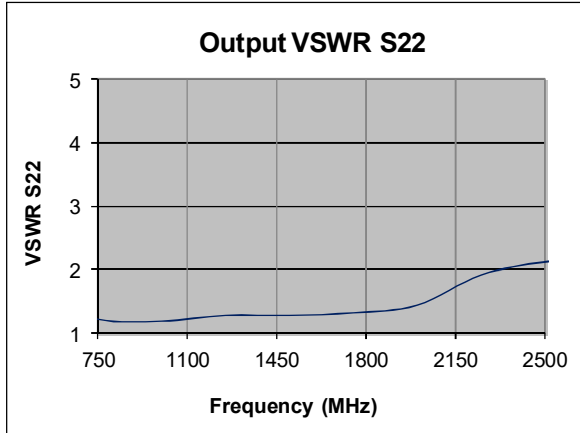
### Typical Performance @ +25 °C



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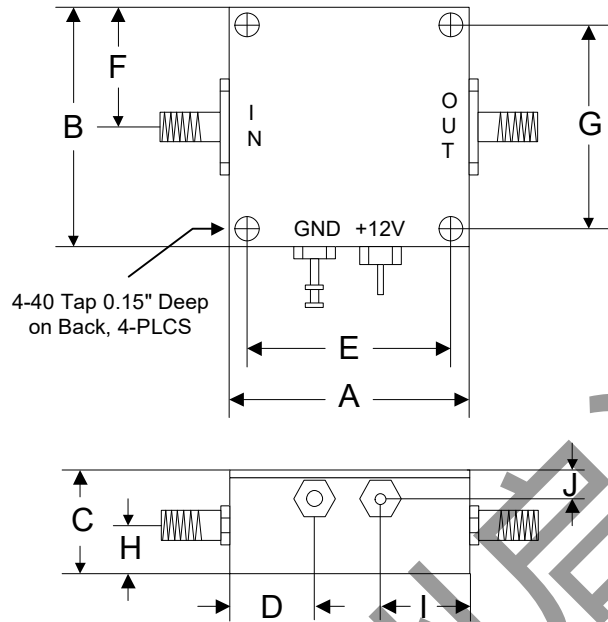
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+33dBm
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**