

## LNA Series

## 10 – 580MHz Low Noise Amplifier

### Features

- Frequency Range: 10 - 580MHz
- Gain: 23dB
- P<sub>1dB</sub>: +19dBm
- IP3: +33dBm
- Noise Figure: 0.7dB
- DC Power: 5V/70mA
- SMA Connector

Performance measured @ 250MHz

### Description

LNA-580 is a 0.7dB Noise Figure Low Noise Amplifier operates in wideband with frequency range from 10MHz to 580MHz.

### Picture



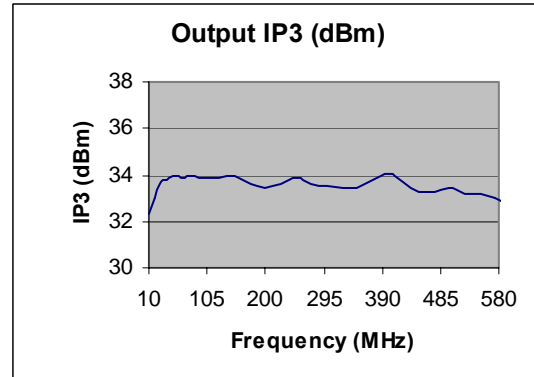
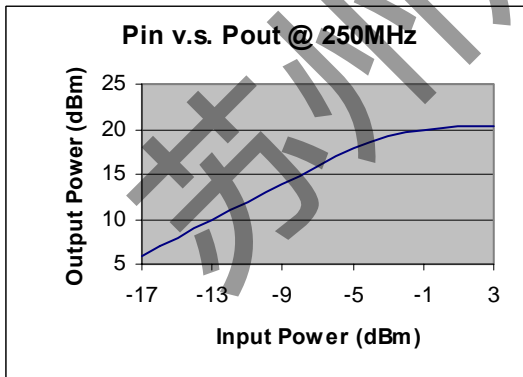
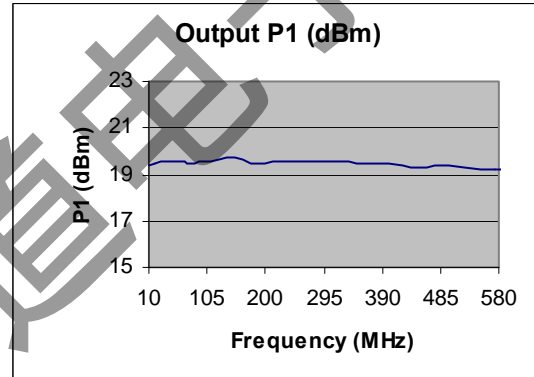
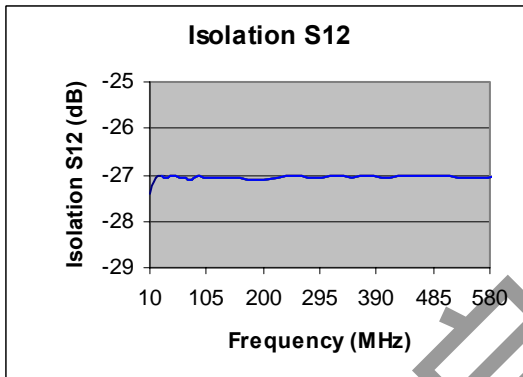
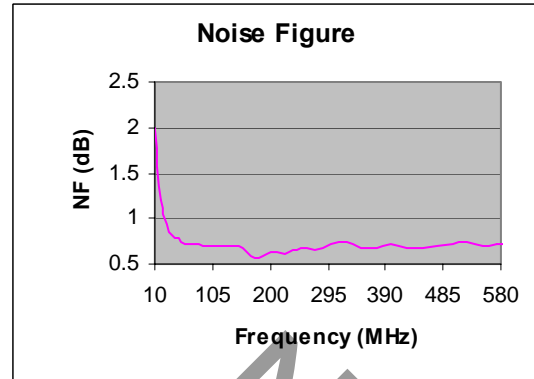
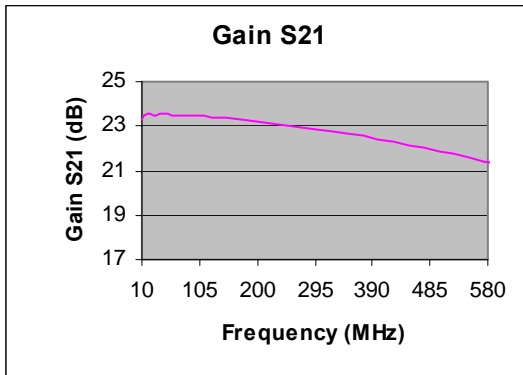
### Electrical Specifications @ +25 °C, Z<sub>in</sub> = Z<sub>out</sub> = 50 Ω, V<sub>cc</sub> = 5V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		580
Gain	dB		23	
f = 10MHz	dB		23	
f = 250MHz	dB		21.5	
f = 580MHz	dB			
Gain Flatness	dB		± 0.9	
P <sub>1dB</sub>	dBm		+19	
IP3	dBm		+33	
Noise Figure	dB		0.7	
Reverse Isolation	dB		-27	
VSWR			1.5:1	
Input VSWR			1.5:1	
Output VSWR				
DC Power Supply	V	4	5	6
Supply Current	mA		70	

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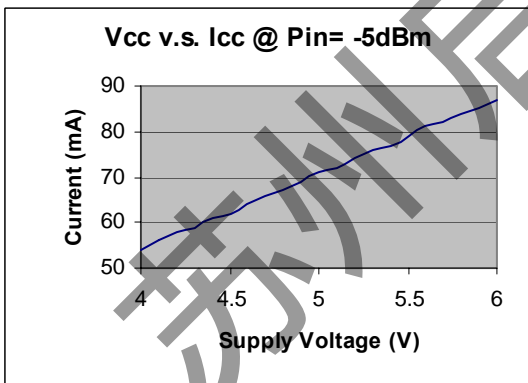
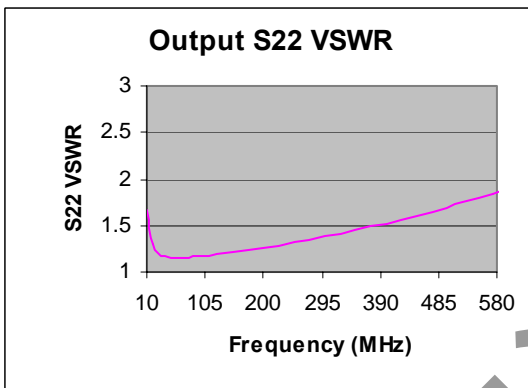
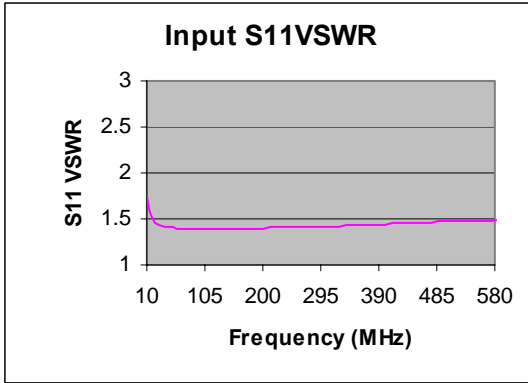
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### Typical Performance @ +25 °C



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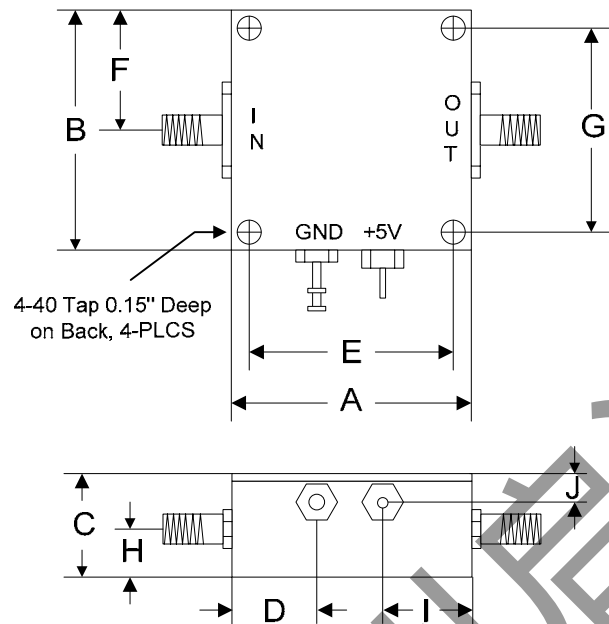
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+7V
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