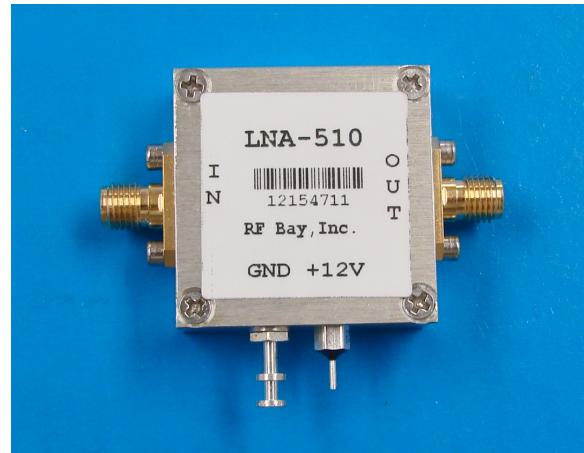


LNA Series**10 – 550MHz Low Noise Amplifier****Features**

- Frequency Range: 10 - 550MHz
- Gain: 27dB
- P_{1dB}: +19dBm
- IP3: +34dBm
- Noise Figure: 1.7dB
- DC Power: 12V/105mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

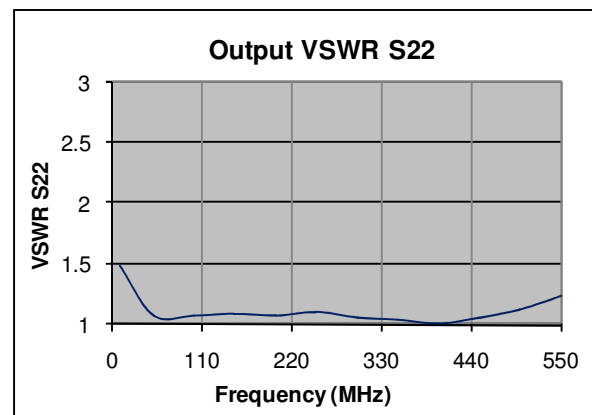
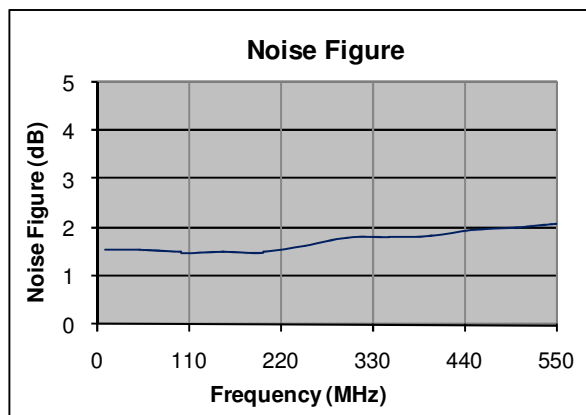
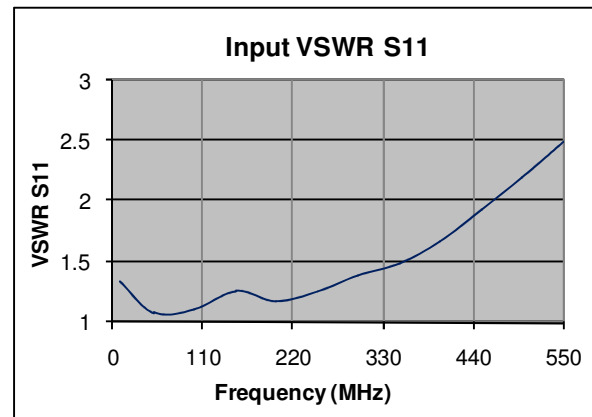
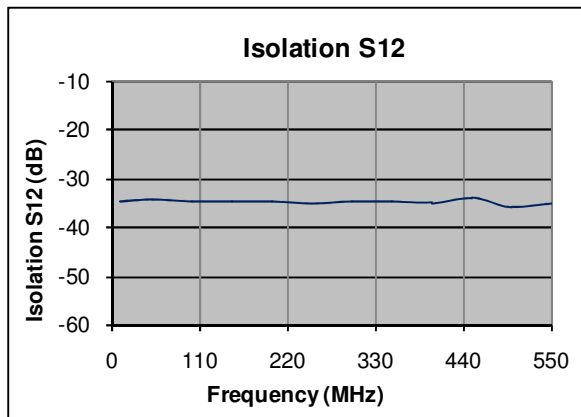
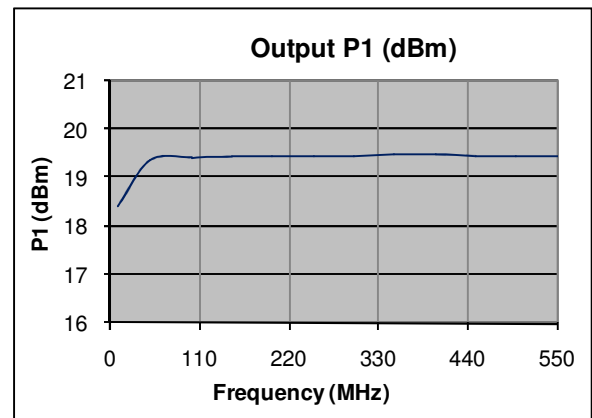
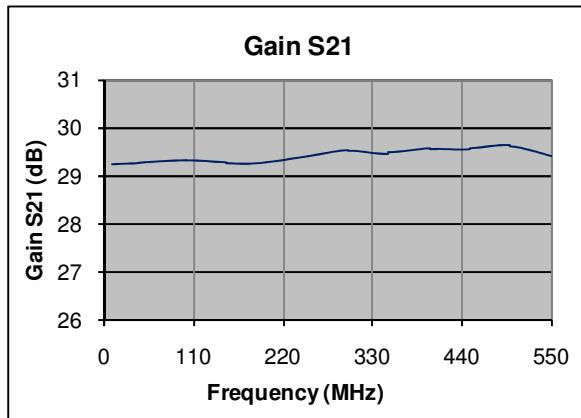
Picture**Description**

LNA-510 is a flat response Low Noise Amplifier operates in frequency range from 10MHz to 550MHz.

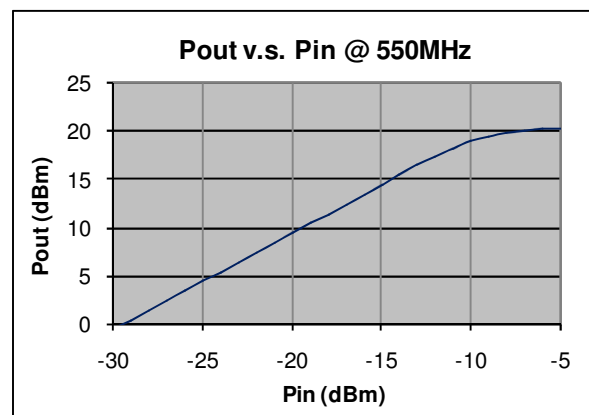
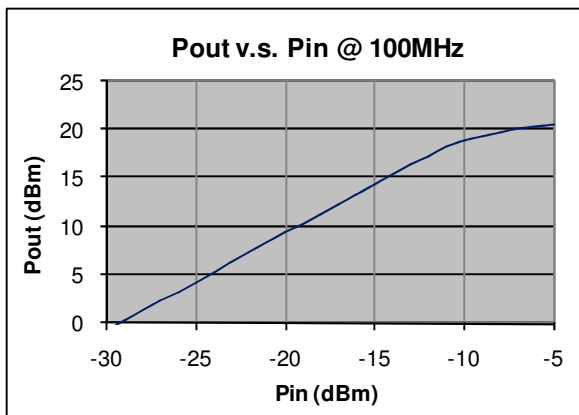
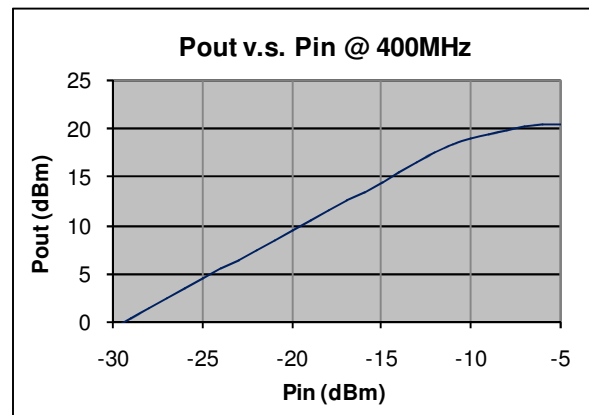
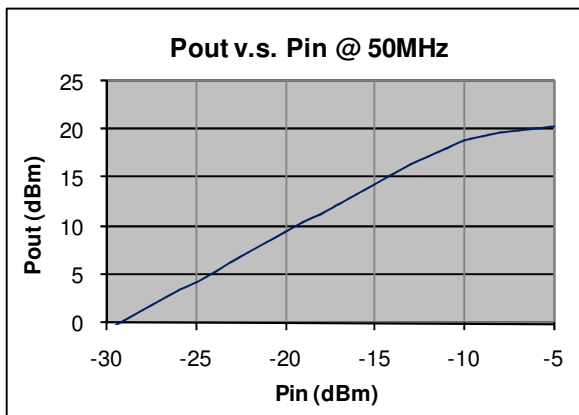
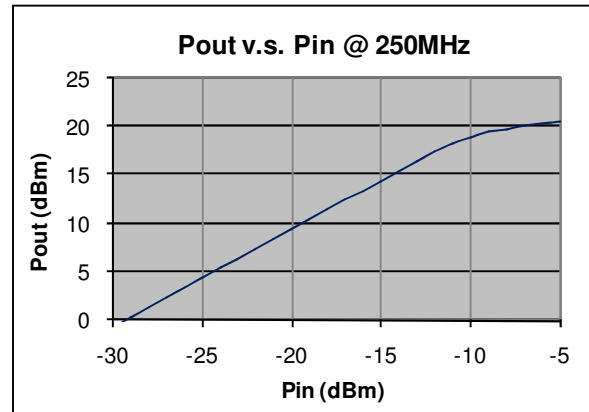
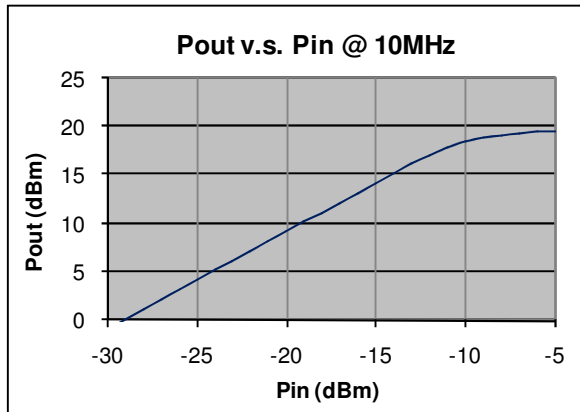
Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50 Ω, V_{supply} = 12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		550
Gain S21 f = 10MHz	dB		29.2	
f = 100MHz	dB		29.3	
f = 250MHz	dB	27	29.4	
f = 400MHz	dB		29.5	
f = 550MHz	dB		29.4	
Gain Flatness	dB		± 0.3	
P _{1dB}	dBm		+19	
IP3	dBm		+34	
Noise Figure	dB		1.7	
Reverse Isolation G12	dB		-35	
VSWR Input VSWR S11			1.2:1	
Output VSWR S22			1.7:1	
DC Power Supply	V		12	15
Supply Current	mA		105	

Typical Performance @ +25 °C



Typical Performance @ +25 °C



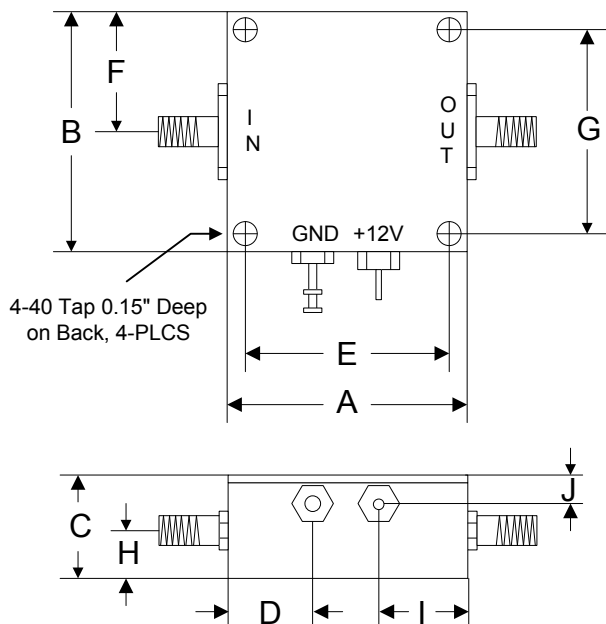
LNA Series

10 – 550MHz Low Noise Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
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