



Ultra Wide Band Low Noise Amplifier 1GHz~8GHz



- Output power +24dBm typical
- Low Noise Figure: 2dB typical.
- High P1dB >20dBm.
- No External Matching Required
- Applicable for base station ,repeaters of cellular network
- Aerospace and military application
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request

Electrical Specifications, TA = +25 ° C, With Vdd = +12V

Parameter	Min	Type	Max	Min	Type	Max	Units
Frequency Range	1~8						GHz
Gain	33	34	35				dB
Gain Variation Over Temperature	±1.5						dB
Noise Figure	1.8		2.2				dB
Input VSWR	1.5		1.8				
Output VSWR	1.5		1.8				
Output Power For 1dB Compression (P-1dB)	21	23					dBm
Saturated Output Power (Psat)	24						dBm
Output Third Order Intercept (IP3)	32						dBm
Supply Current (Idd) (Vdd=+12V)	240		300				mA
Isolation S12	65						dB
Input Max	-5						dBm
Weight	50						g
Impedance	50						Ohms
Input /Output Connector	SMA-Female						
Finishing	Gold plating						
Material	Aluminum/copper						



RF-LAMBDA

The power beyond expectations

RLNA01G08GA

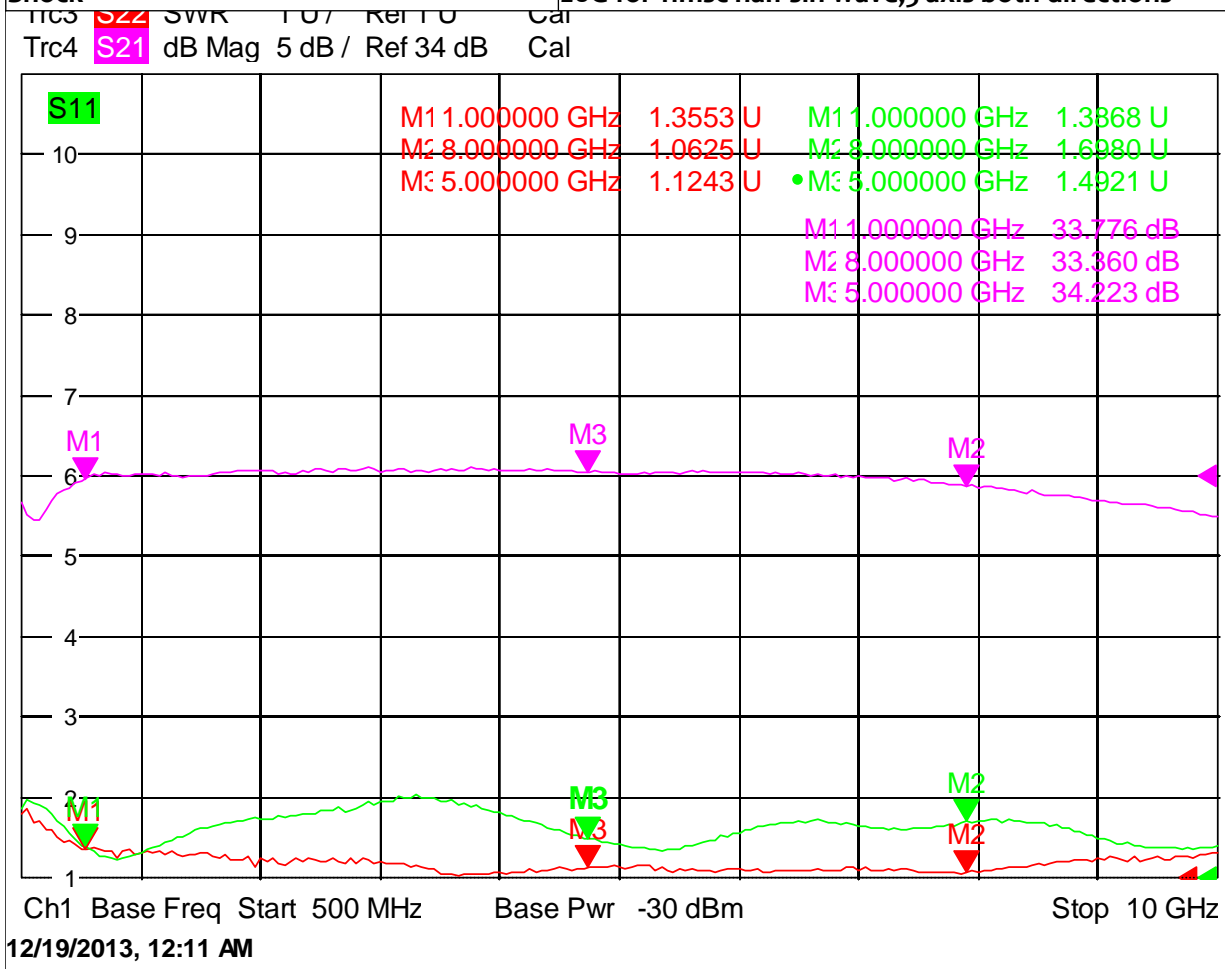
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Absolute Maximum Ratings	
Biassing	+12V
Input RF power	-5dBm
Storage Temperature (C°)	-50 ~ +125

Ordering Information		
Part No	ECCN	Description
PN:RLNA01G08 GA	EAR99	1-8GHz LNA Amplifier

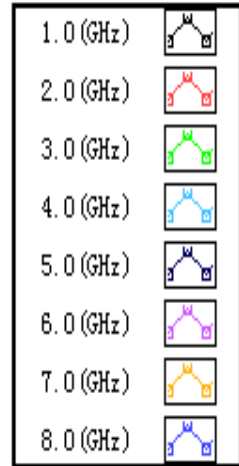
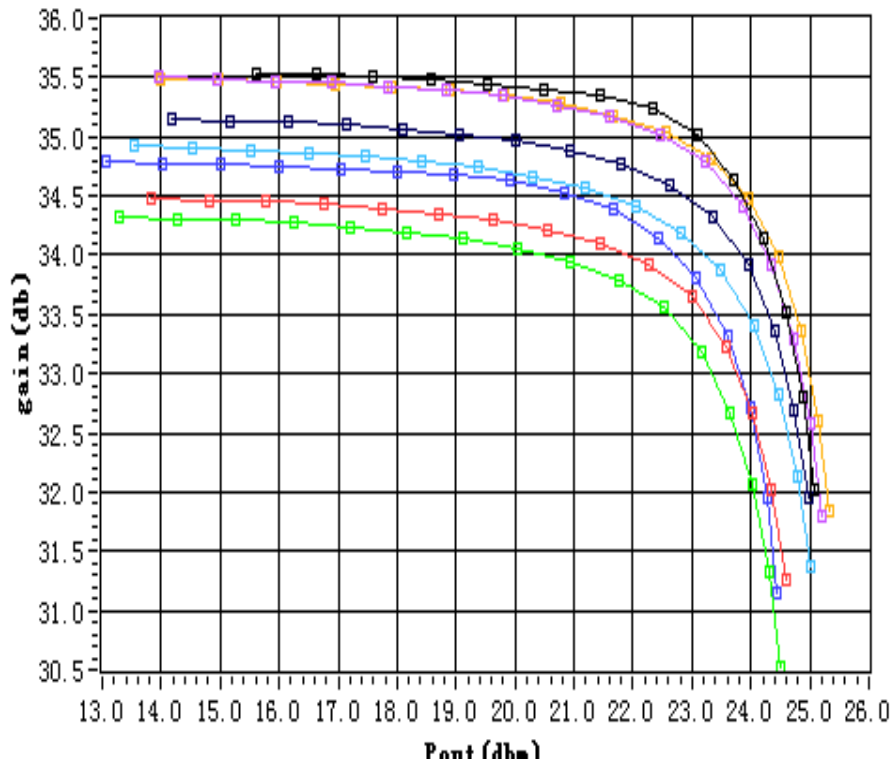
Biassing Up Procedure	
Step 1	Connect input and output
Step 2	Connect Ground Pin
Step 3	Connect +12V biassing
Power OFF Procedure	
Step 1	Turn off +12V biassing
Step 2	Remove RF connection
Step 3	Remove Ground.

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc half sin wave,3 axis both directions

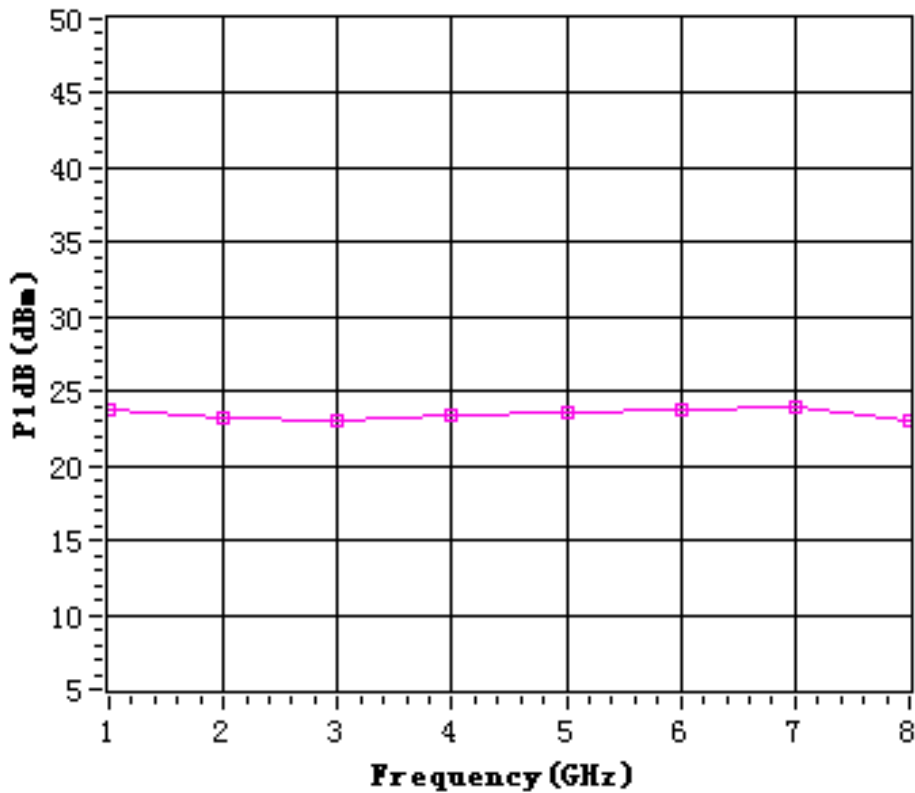




Gain vs Psat



Output P1dB



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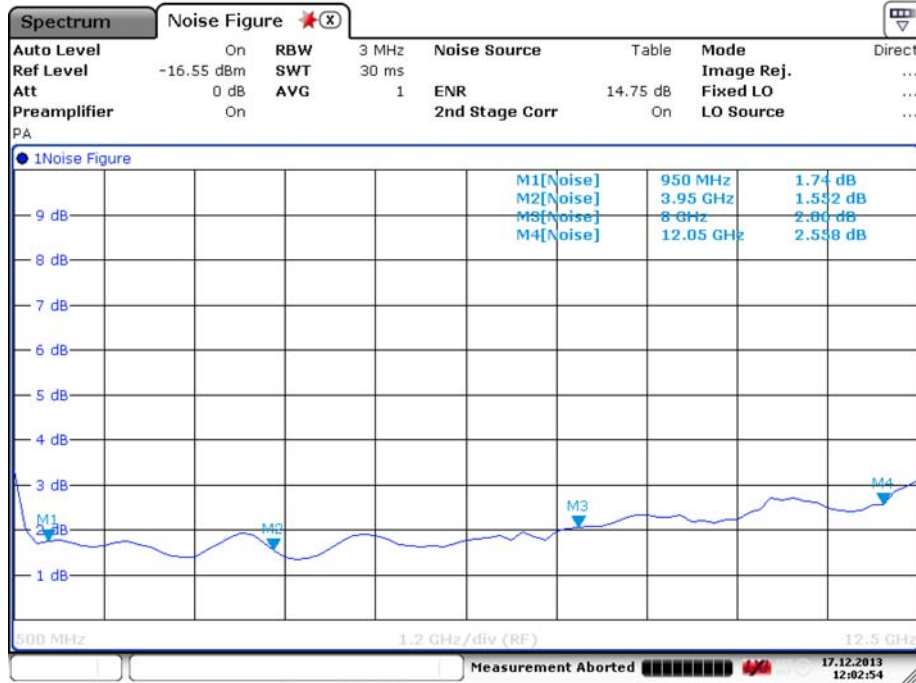


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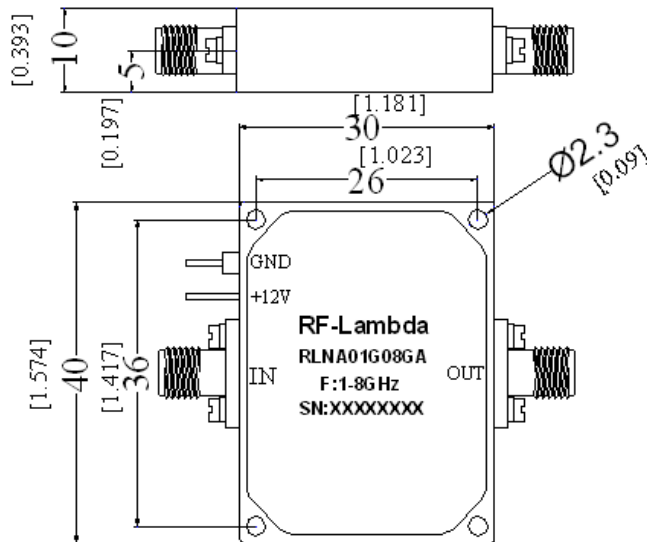
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Heat Sink required during operation.



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