



Ultra Wide Band Low Noise Amplifier 6GHz~18GHz



- Output power +28dBm typical
- Low Noise Figure: 4dB typical.
- High P1dB >25dBm full band.
- 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

Specification	Ultra Wide Band Lose Noise Amplifier		
	PN: RLNA06G18GA		
	Low	Med	High
Frequency Range(GHz)	6	12	18
Gain (dB)	36	34	32
Variation Part to Part	±2dB		
Variation Over Temperature	1dB		
VSWR (input)	2.1	1.8	1.9
VSWR (output)	1.8	1.8	2
Isolation S12 (dB)	65	65	60
Noise Figure (dB)	2.5	2.3	3
P1dB Power (dBm)	26	28	27
Input Max. (dBm)	-2		
Weight (g)	100		
Impedance(Ohms)	50Ω		
Power Supply (V)	+12 V DC (12v~15v)		
Current(mA)	700mA max.		
Input Connector	SMA-Female		
Output Connector	SMA-Female		
Finishing	Nickel Plating		
Material	Copper		
Seal	Hermetically Sealed (optional)		

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The power beyond expectations

RLNA06G18GA

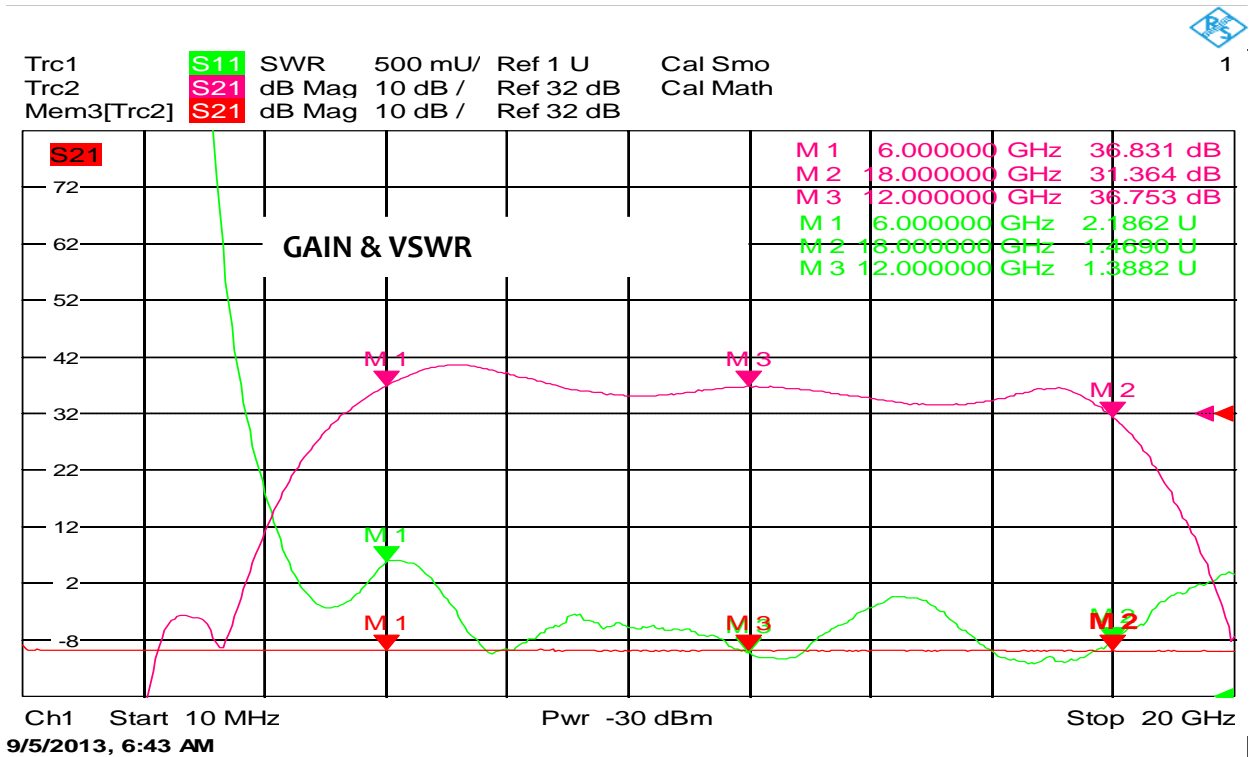
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Absolute Maximum Ratings	
Biassing	+12V
Input RF power	-2dBm
Storage Temperature (C°)	-50 ~ +125

Ordering Information		
Part No	ECCN	Description
RLNA06G18GA	EAR99	06-18GHz 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



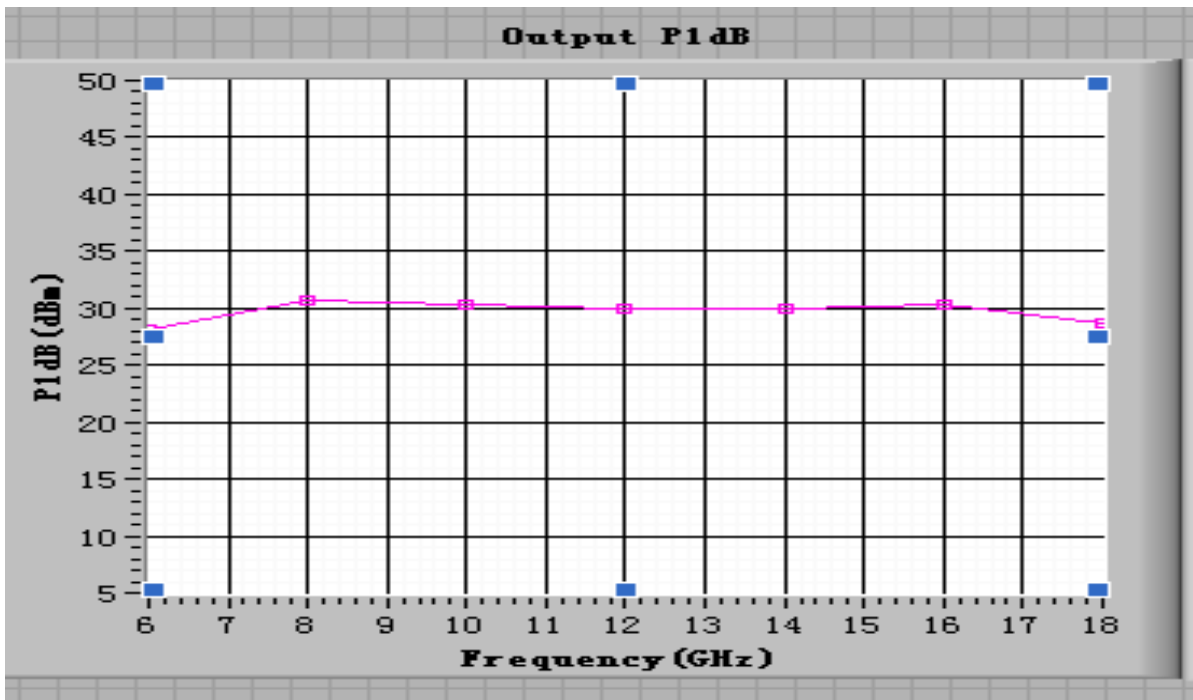
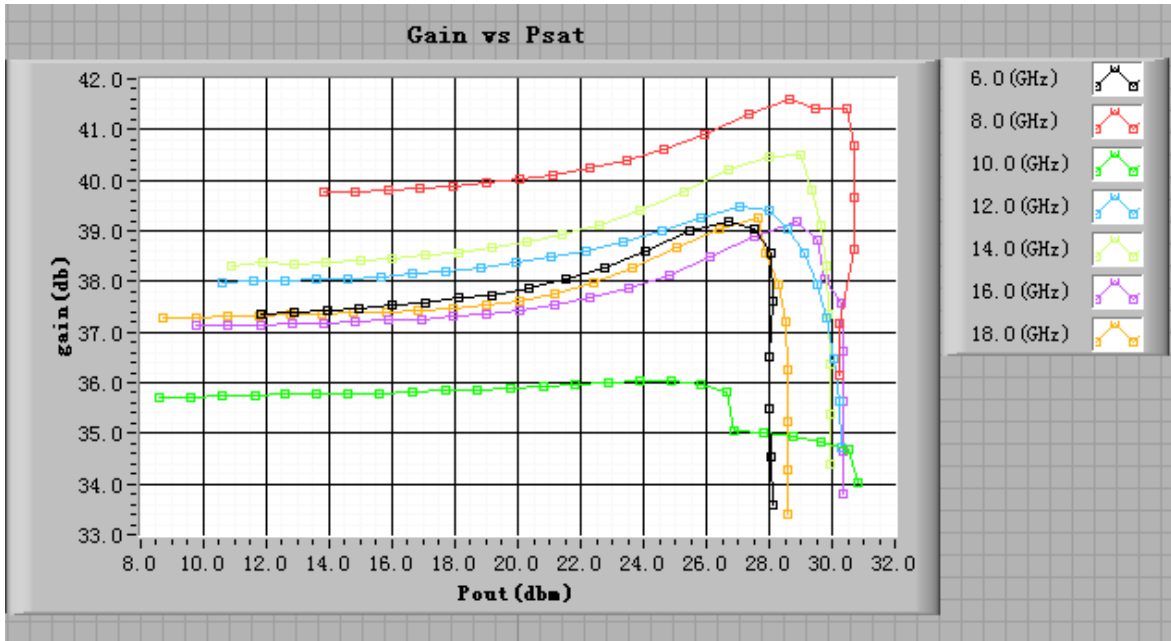


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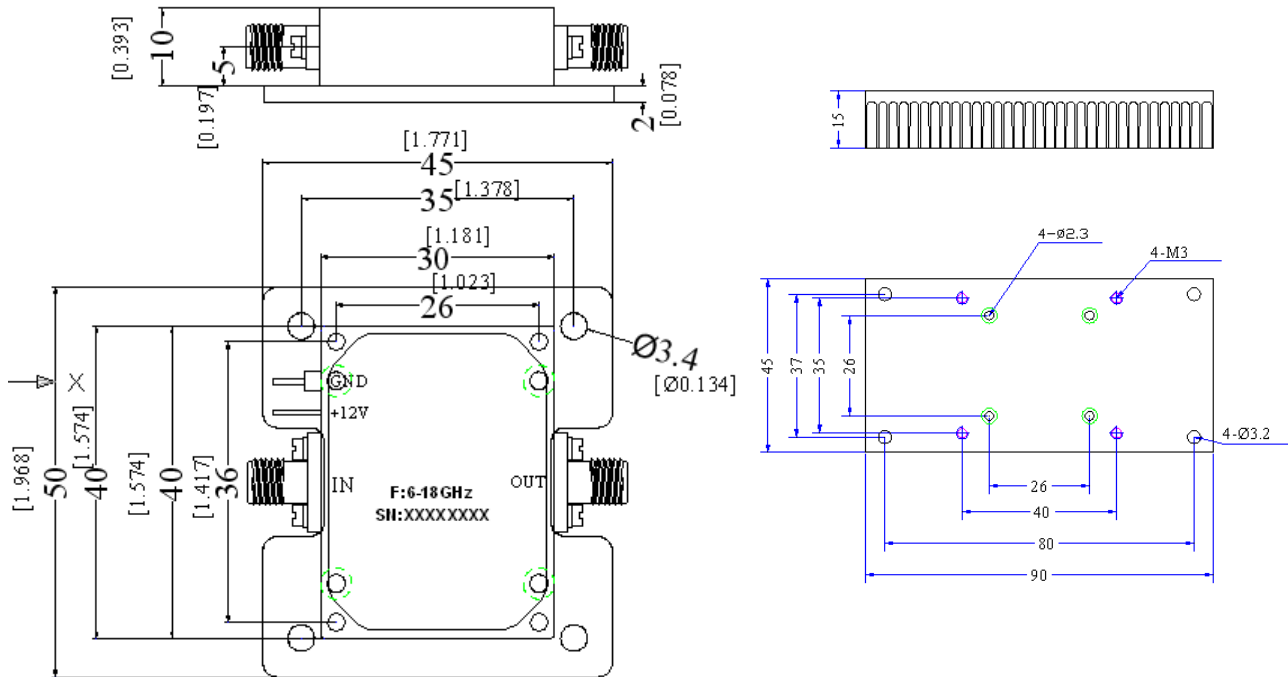


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Heat Sink required during operation.



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