



Ultra Wide Band Low Noise Amplifier 12GHz~18GHz



- Low Noise Figure: 2dB typical.
- High P1dB >10dBm 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: RLNA1218G14		
	Low	Med	High
Frequency Range(GHz)	12	-	18
Gain (dB)	14	-	-
Gain Flatness(dB)	-	-	±1
VSWR (input)	-	-	2.0
VSWR (output)	-	-	2.0
Noise Figure (dB)	-	-	2.0
P1(dB)	10	-	-
Supply Voltage (V)	8	-	12
Operating Temperature(°C)	-55~+85		
Weight (g)	25		
Impedance(Ohms)	50Ω		
Current(mA)	90mA max.		
Input Connector	SMA-Female		
Output Connector	SMA-Female		
Finishing	Gold Plating		
Material	Aluminum		
Seal	Hermetically Sealed (Optional)		

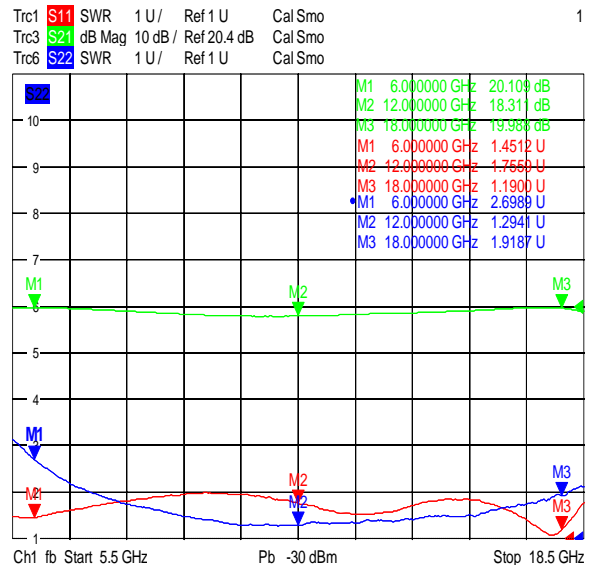
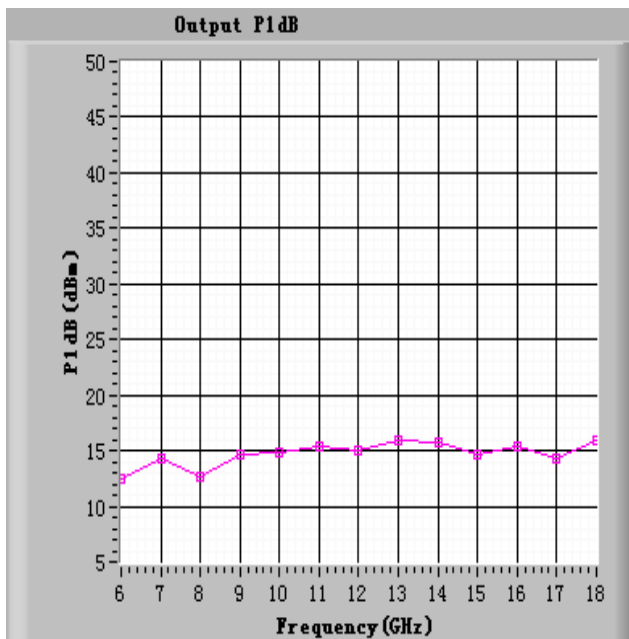
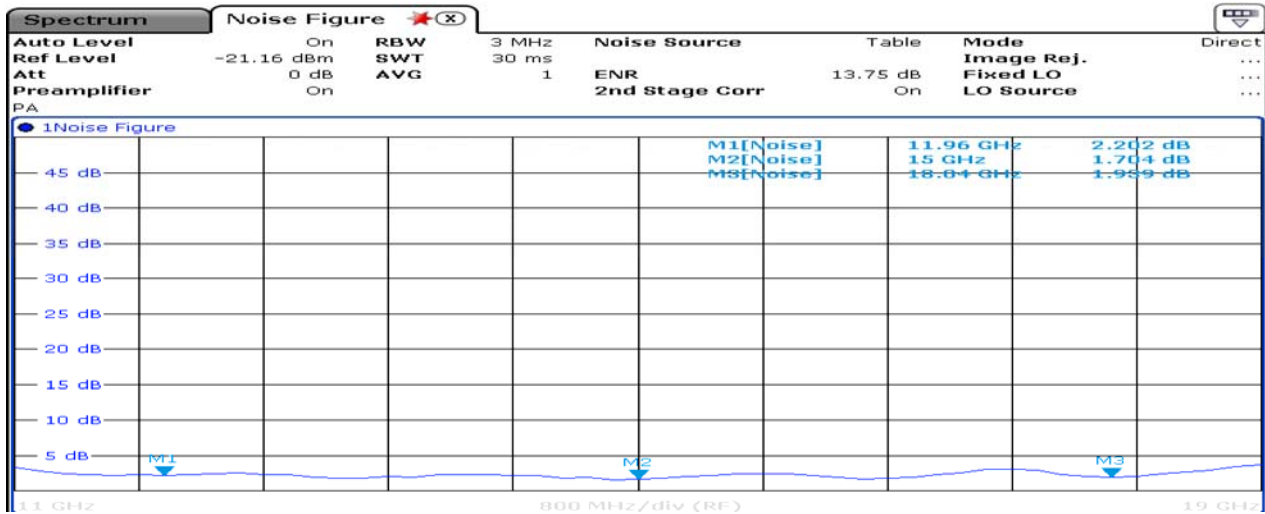
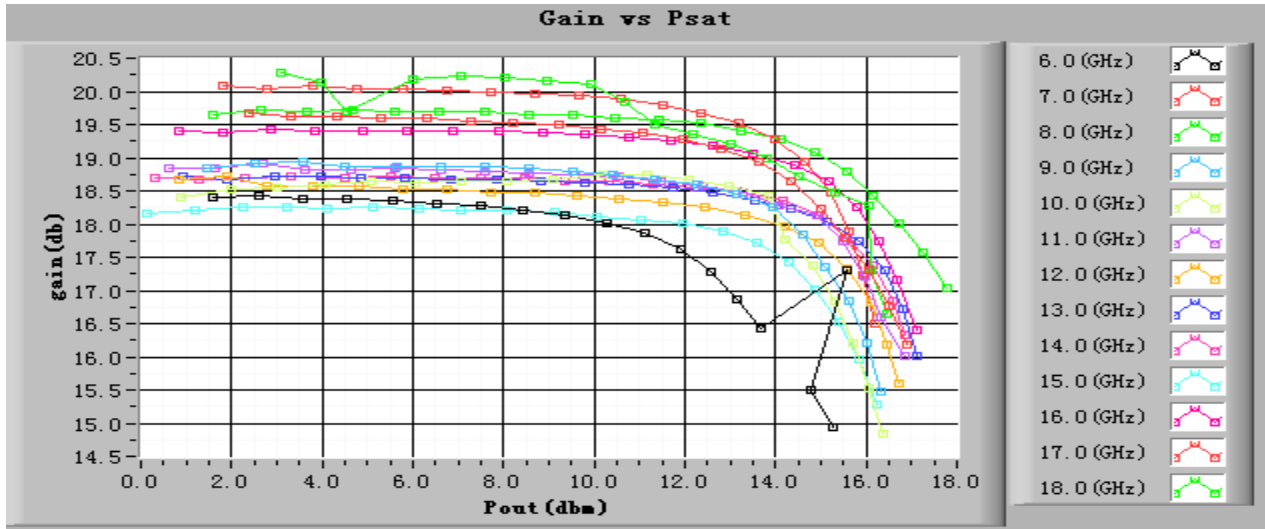


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The power beyond expectations

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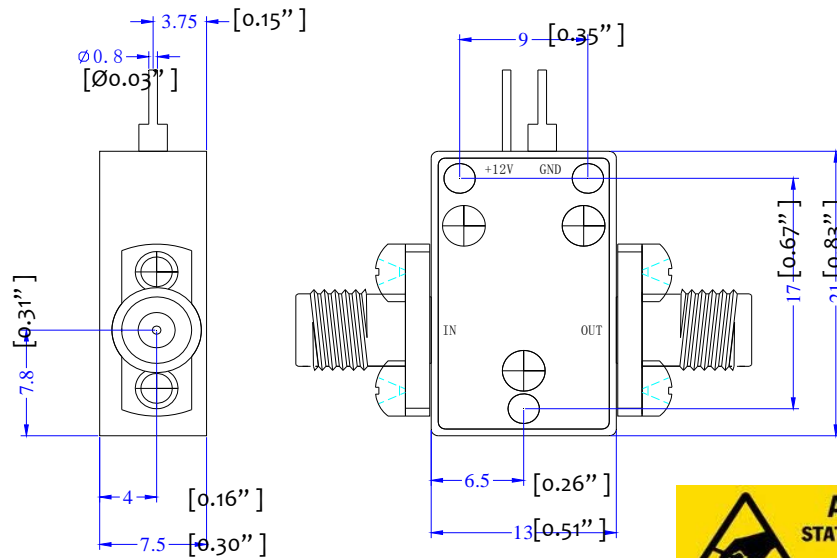
Absolute Maximum Ratings	
Biasing	+8-+12V
Input RF power	-10dBm
Storage Temperature (C°)	-50 ~ +125

Biasing Up Procedure	
Step 1	Connect input and output
Step 2	Connect Ground Pin
Step 3	Connect biasing
Power OFF Procedure	
Step 1	Turn off biasing
Step 2	Remove RF connection
Step 3	Remove Ground.

Ordering Information		
Part No	ECCN	Description
RLNA1218G14	EAR99	12-18GHz LNA Amplifier

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

Heat Sink required during operation.



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