



Ultra Wide Band Low Noise Amplifier 0.1GHz~10GHz



- Output power $> +25\text{dBm}$
- Low Noise Figure 2.5dB typical.
- High $P_{1\text{dB}}$ $> 25\text{dBm}$ 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: RLNA01M10GB		
	Low	Med	High
Frequency Range(GHz)	0.1	5.05	10
Gain (dB)	23.6	25	26.5
Variation Part to Part	$\pm 2\text{ dB}$		
Variation Over Temperature	1dB		
VSWR (input)	2.2	1.6	1.8
VSWR (output)	2.2	1.6	1.7
Isolation S_{12} (dB)	75	70	65
Noise Figure (dB)	2.5	1.8	2
$P_{1\text{dB}}$ Power (dBm)	26	25.5	25
Input Max. (dBm)	-5dBm		
Weight (g)	50		
Impedance(Ohms)	50Ω		
Power Supply (V)	$+12\text{ V DC } (\pm 10\%)$		
Current(mA)	350mA max.		
Input Connector	SMA-Female		
Output Connector	SMA-Female		
Finishing	Nickel Plating		
Material	Aluminum		
Seal	Hermetically Sealed		

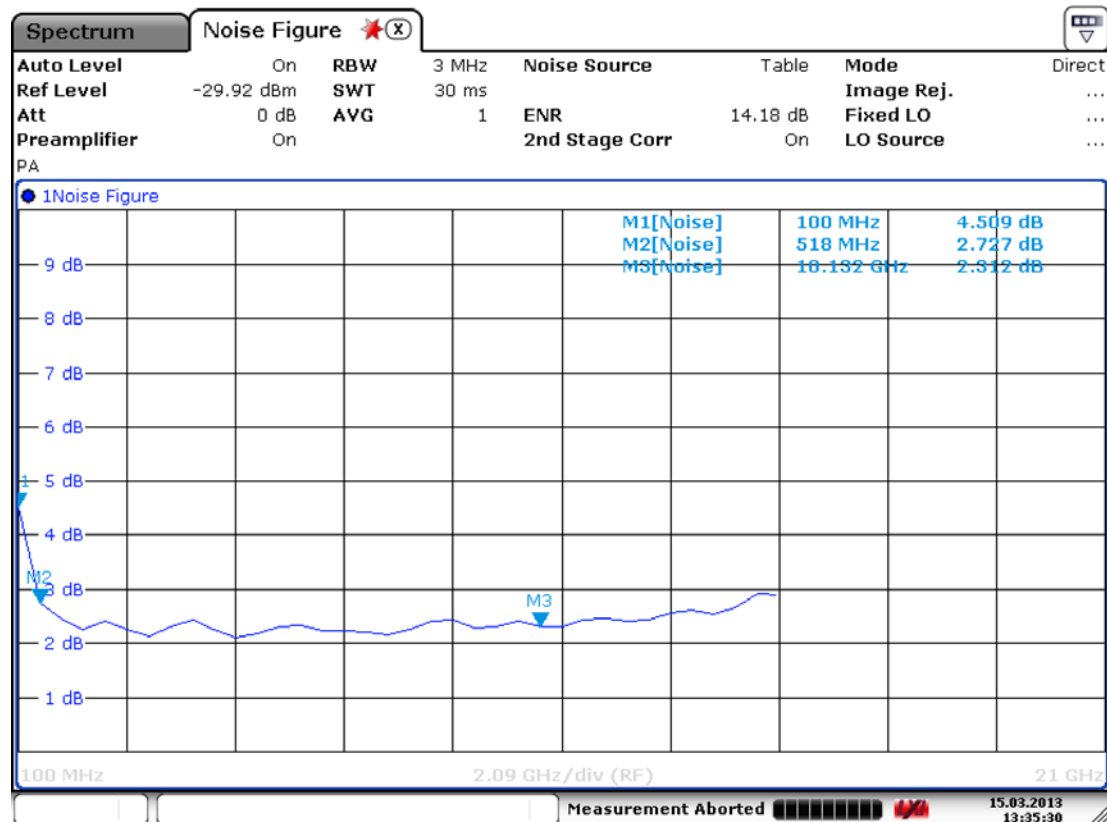


Absolute Maximum Ratings	
Biasing	+12V
Input RF power	0dBm
Storage Temperature (C°)	-50 ~ +125

Ordering Information		
Part No	ECCN	Description
RLNA01M10GB	EAR99	0.1-10GHz LNA Amplifier

Biasing Up Procedure	
Step 1	Connect input and output
Step 2	Connect Ground Pin
Step 3	Connect +12V biasing
Power OFF Procedure	
Step 1	Turn off +12V biasing
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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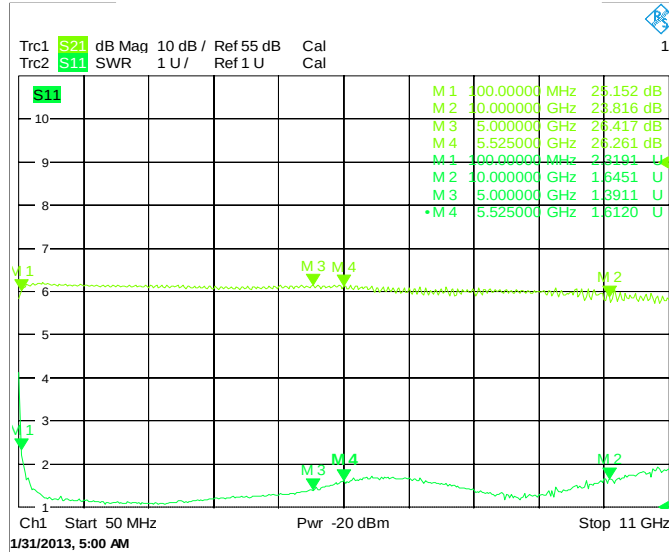


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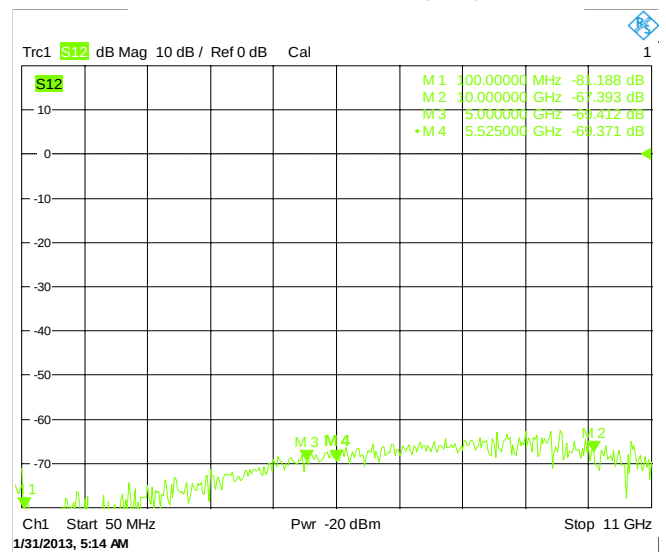
The power beyond expectations

RLNA01M10GB

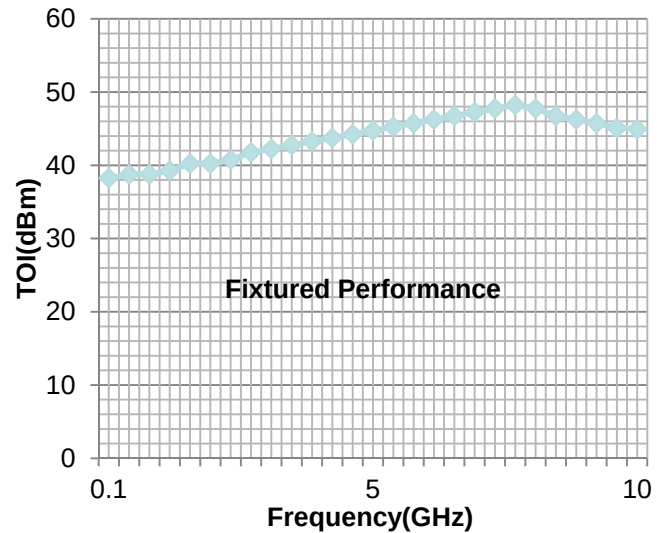
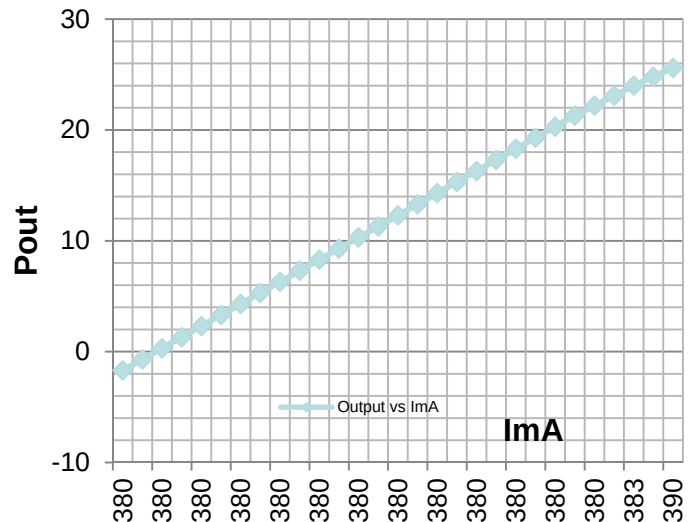
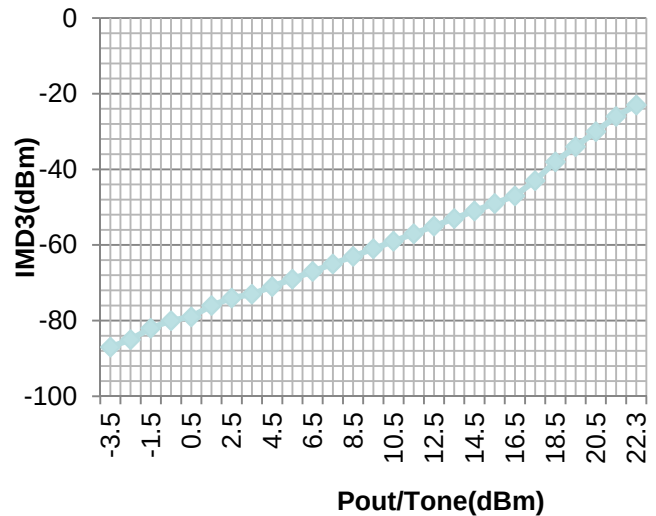
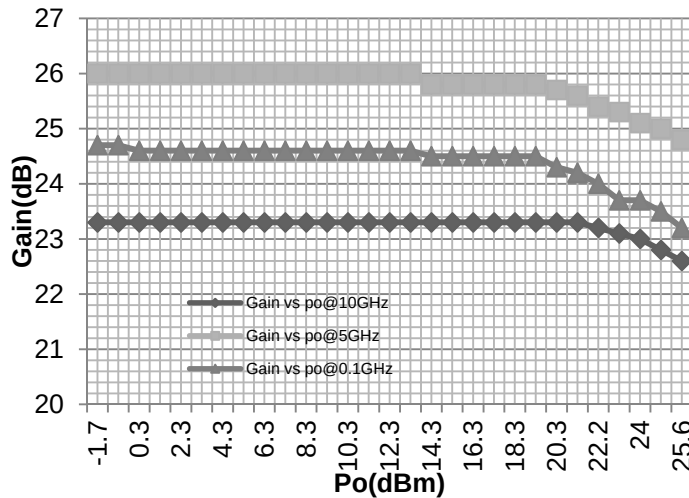
GAIN & VSWR (Over Frequency)



Amplifier Isolation (S12)



1dB compression



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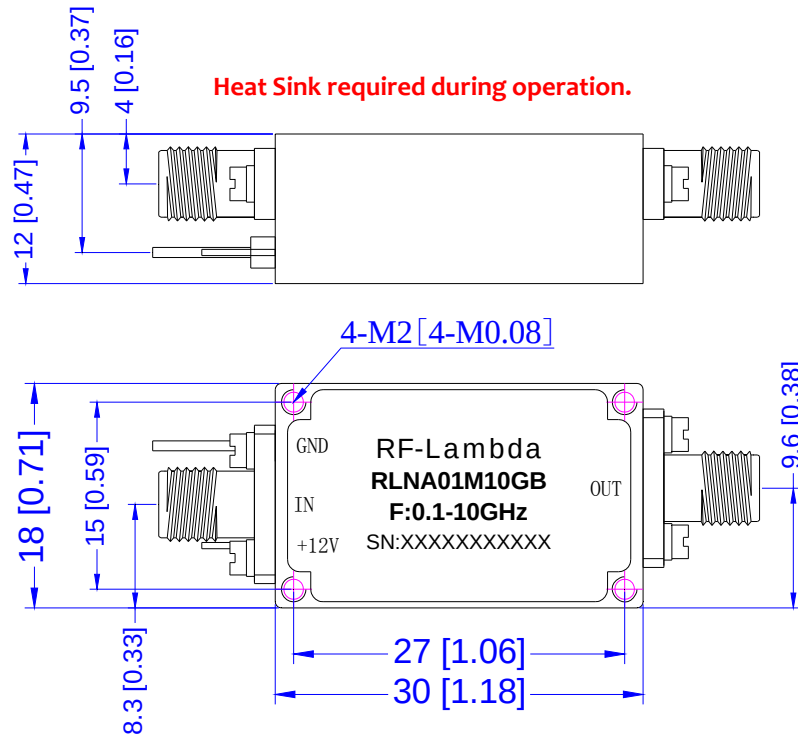


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The power beyond expectations

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