



Ultra Wide Band Low Noise Amplifier 6GHz~18GHz



- Output power +30dBm Type.
- Low Noise Figure: 2dB typical.
- High P1dB >28dBm 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

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

Parameter	Min	Type	Max	Min	Type	Max	Units
Frequency Range	6~16			16~18			GHz
Gain	32	33		30	32		dB
Gain Variation Over Temperature		0.5	0.8		0.5	0.8	dB
Noise Figure		1.8	2.2		1.9	2.4	dB
Input VSWR		1.8	2.4		1.6	2	
Output VSWR		1.6	1.8		1.6	1.8	
Output Power For 1dB Compression (P-1dB)	27	29		27	29		dBm
Saturated Output Power (Psat)	28	30		27	29		dBm
Output Third Order Intercept (IP3)		38			38		dBm
Supply Current (Idd) (Vdd=+12V)		450	800		450	800	mA
Isolation S12	65	70		60	65		dB
Input Max		0			0		dBm
Weight	100						g
Impedance	50						Ohms
Input /Output Connector	SMA-Female						
Finishing	Gold plating						
Material	Aluminum/copper						



RF-LAMBDA

The power beyond expectations

RLNA06G18GB

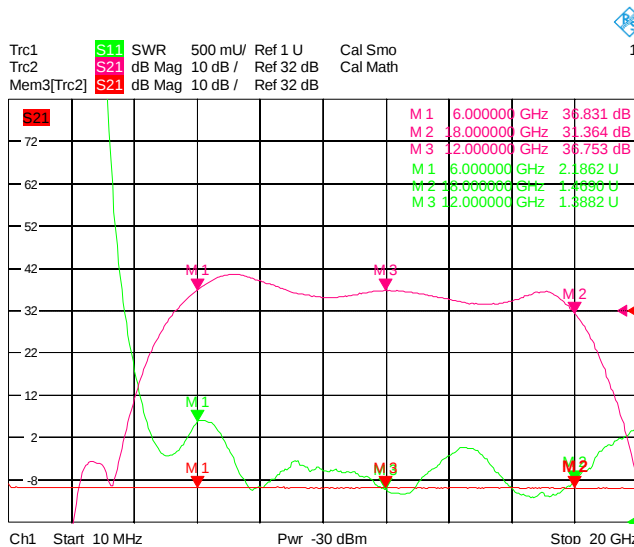
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Absolute Maximum Ratings	
Biasing	+12V
Input RF power	0dBm
Storage Temperature (C°)	-50 ~ +125

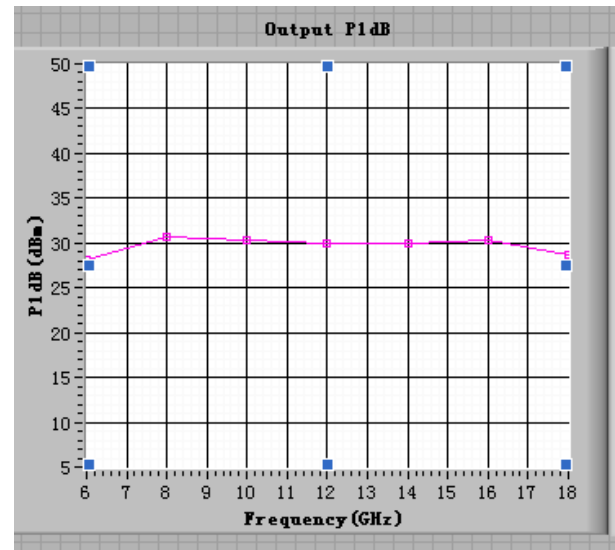
Biasing Up Procedure	
Step 1	Connect input and output
Step 2	Connect Ground Pin
Step 3	Connect +12V biasing
Power OFF Procedure	
Step 1	Turn off +12V biasing
Step 2	Remove RF connection
Step 3	Remove Ground.

Ordering Information		
Part No	ECCN	Description
RLNA06G18GB	EAR99	6-18GHz 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



GAIN & VSWR (Over Frequency)

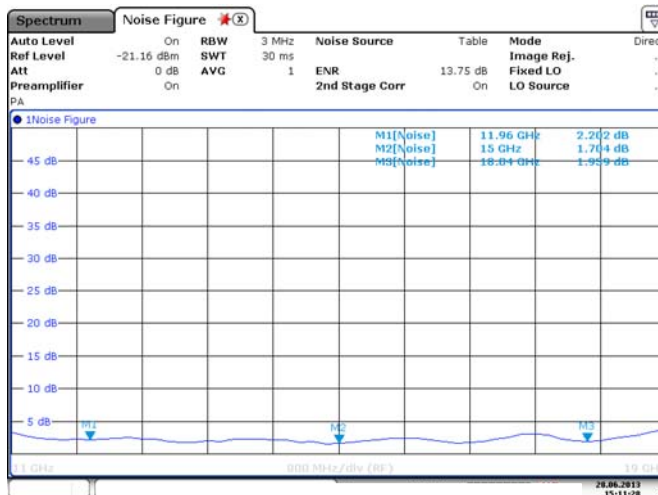
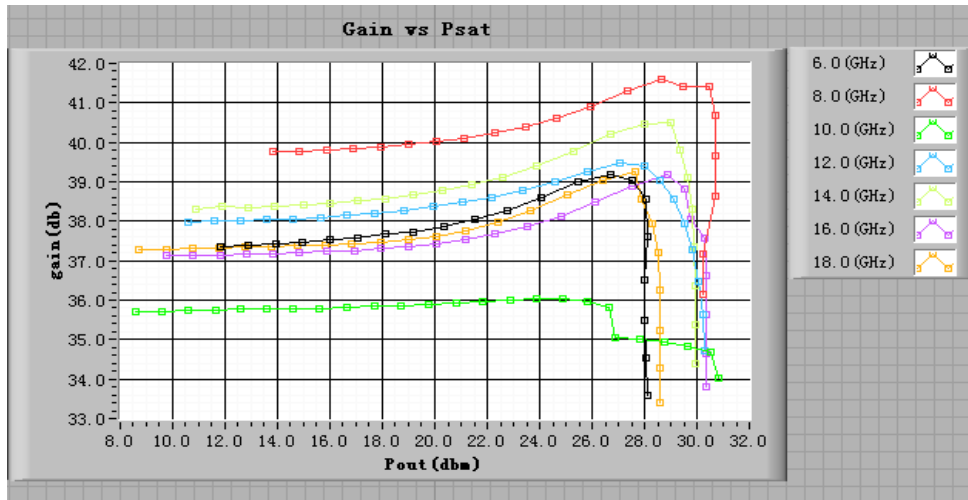




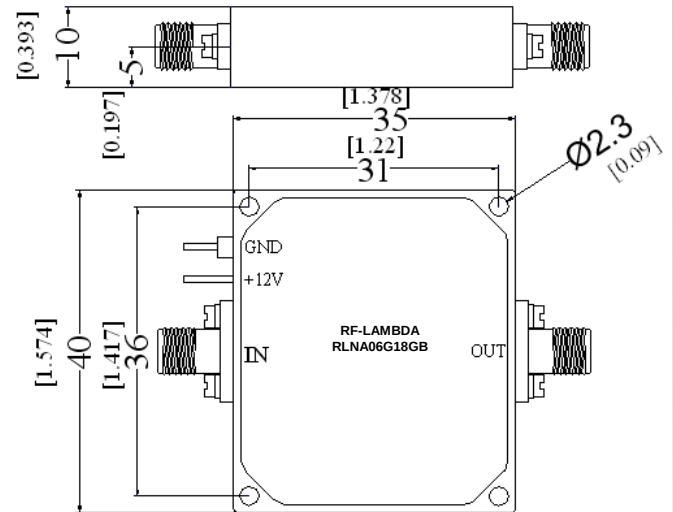
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Noise Figure (Over Frequency)



Heat Sink required during operation.

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