Wide Band Low Noise Amplifier 15GHz~27GHz

RoHS Compliant

- Output power +29dBm typical
- Low Noise Figure: 2.5dB 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

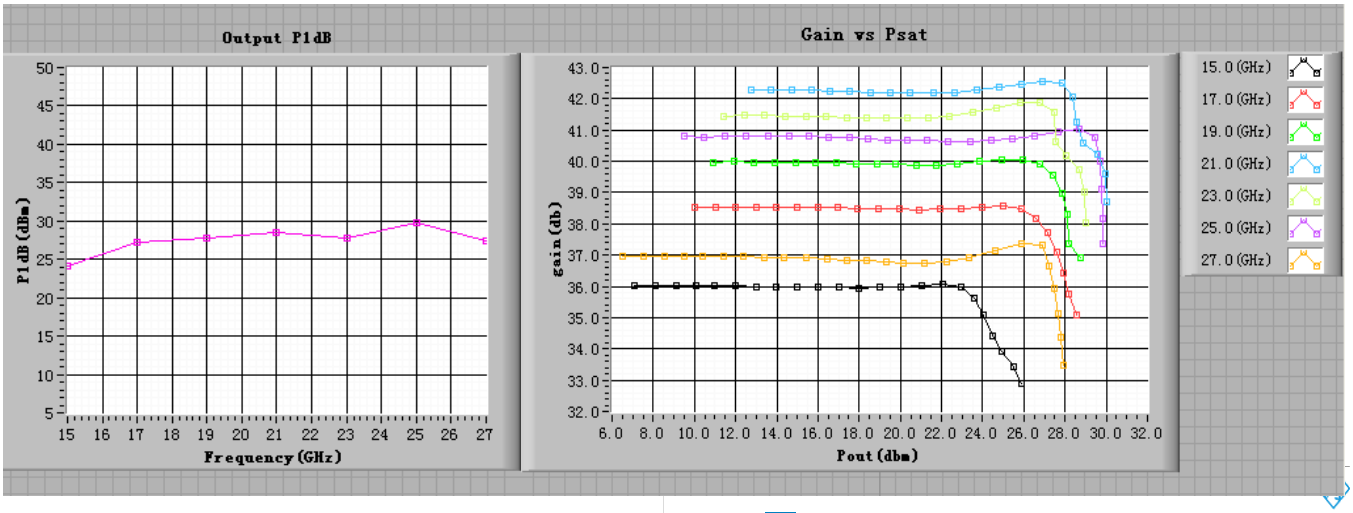
Specification	Ultra Wide Band Lose Noise Amplifier		
	PN: RLNA17G25GB		
	Low	Med	High
Frequency Range(GHz)	15	21	27
Gain (dB)	37	39	38
Variation Part to Part	±2dB		
Variation Over Temperature	1dB		
VSWR (input)	1.5	1.8	2
VSWR (output)	1.5	1.8	2
Isolation S12 (dB)	60	65	67
Noise Figure (dB)	1.8	2.0	2.5
P1dB Power (dBm)	25	28	29
Input Max. (dBm)	+2		
Weight (g)	100		
Impedance(Ohms)	50Ω		
Power Supply (V)	+12 V DC (12v~15v)		
Current(mA)	500mA max.		
Input Connector	SMA-Female		
Output Connector	SMA-Female		
Finishing	Nickel Plating		
Material	Copper		
Seal	Hermetically Sealed		

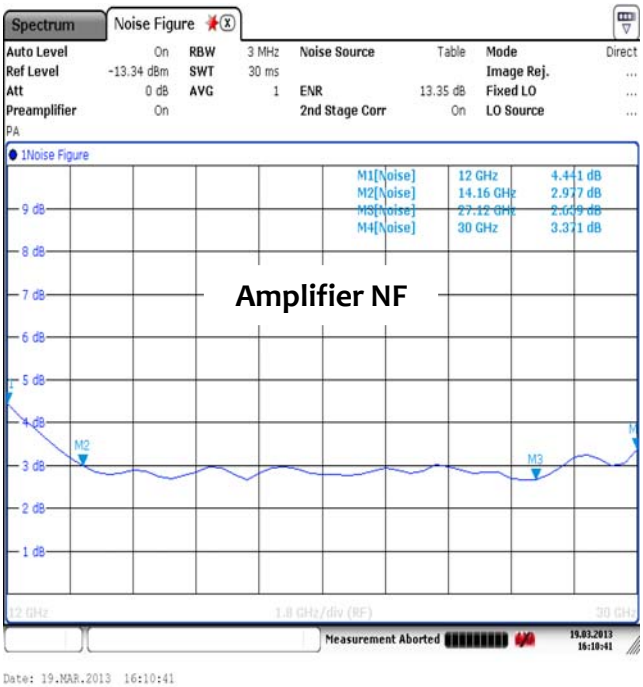
Wide Band Low Noise Amplifier 15GHz~27GHz

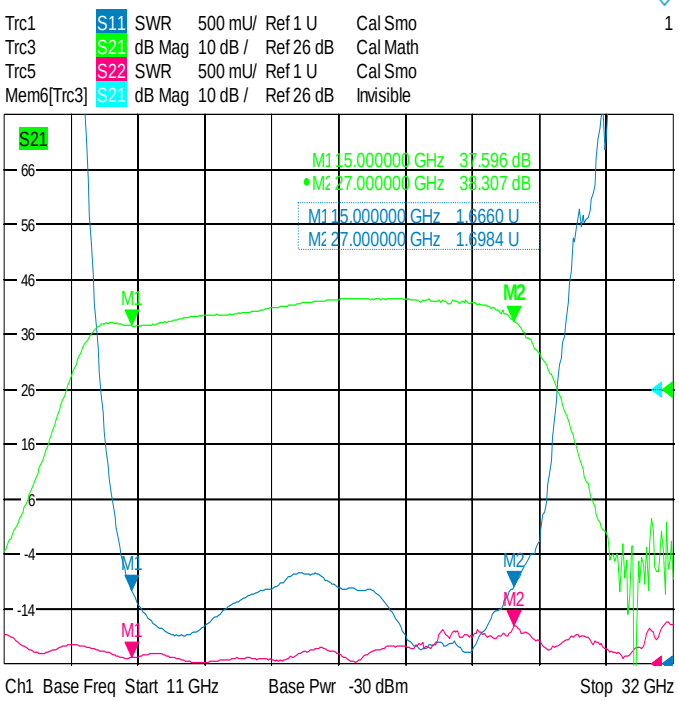
Absolute Maximum Ratings	
Biasing	+12V
Input RF power	2dBm
Storage Temperature (C°)	-50 ~ +125

Ordering Information		
Part No	ECCN	Description
PN:RLNA17G25GB	EAR99	15-27GHz LNA Amplifier

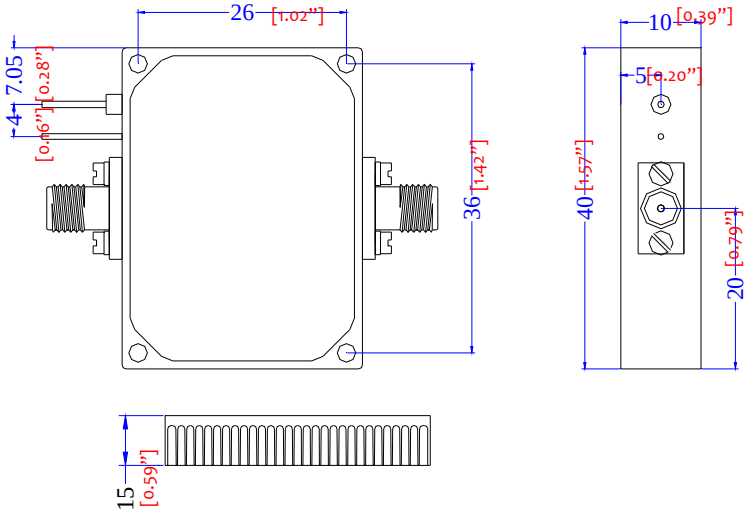
Biasing Up Procedure	
Step 1	Connect input and output
Step 2	Connect Ground Pin
Step 3	Connect +12V biasing
Power OFF Procedure	
Step 1	Turn off +12V biasing
Step 2	Remove RF connection
Step 3	Remove Ground.



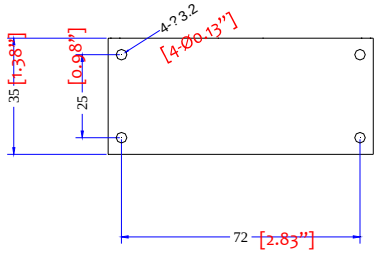




Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc half sin wave,3 axis both directions



Heat Sink required during operation.



Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.