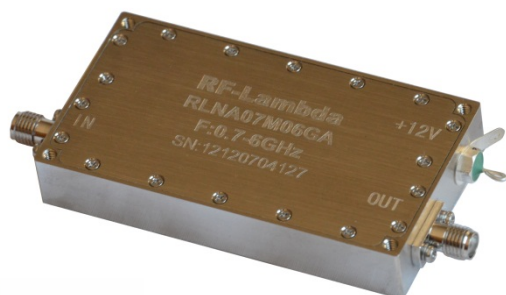




Ultra Wide Band Low Noise Amplifier 0.7GHz~6GHz



- Output power $>+23\text{dBm}$
- Low Noise Figure 2.5dB typical.
- High $P_{1\text{dB}}$ $>23\text{dBm}$ 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: RLNA07Mo6GA		
	Low	Med	High
Frequency Range(GHz)	0.7	3.35	6
Gain (dB)	39.5	41	42.5
Variation Part to Part	$\pm 1.5\text{ dB}$		
Variation Over Temperature	$\pm 2\text{ dB}$		
VSWR (input)	1.8	1.5	2
VSWR (output)	1.8	1.6	2
Isolation S12 (dB)	60		
Noise Figure (dB)	2.8	2.5	2.5
P1dB Power (dBm)	23	23.5	24
Input Max. (dBm)	-5dBm		
Weight (g)	50		
Impedance(Ohms)	50Ω		
Power Supply (V)	$+12\text{ V DC } (\pm 10\%)$		
Current(mA)	280mA max.		
Input Connector	SMA-Female		
Output Connector	SMA-Female		
Finishing	Nickel Plating		
Material	Aluminum		
Seal	Hermetically Sealed		



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The power beyond expectations

RLNA07M06GA

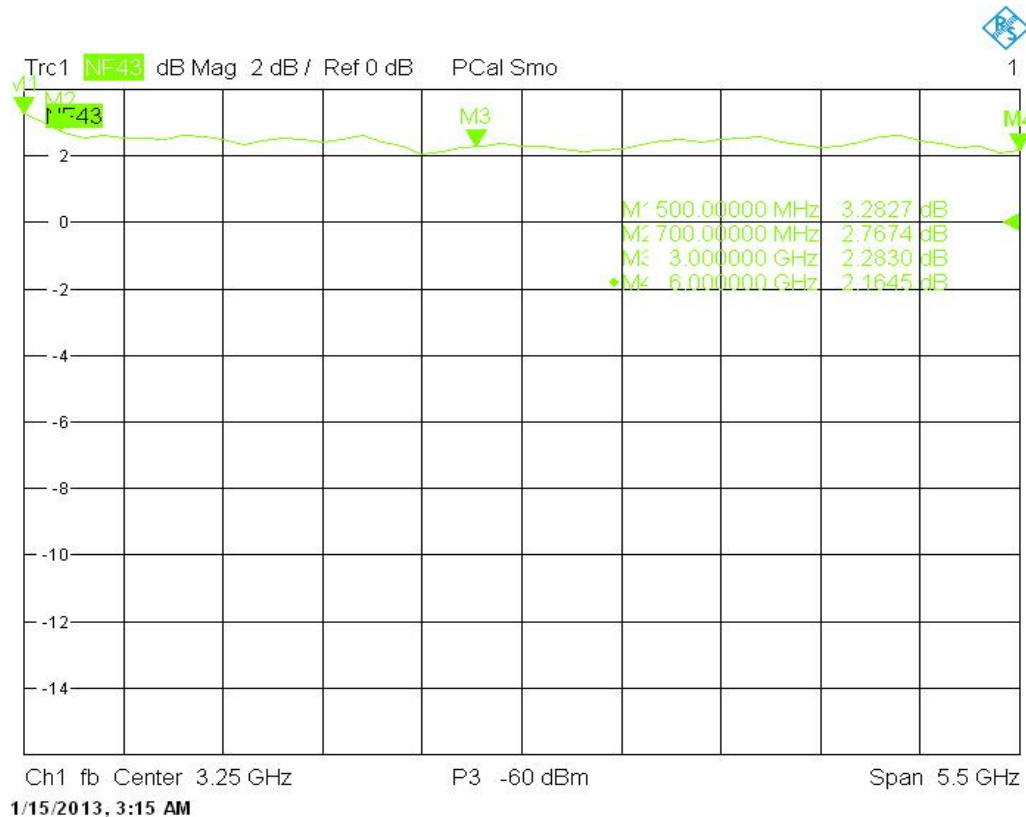
Absolute Maximum Ratings	
Biasing	+12V
Input RF power	0dBm
Storage Temperature (C°)	-50 ~ +125

Ordering Information		
Part No	ECCN	Description
RLNA07M06GA	EAR99	0.7-6GHz 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

Noise Figure (Over Frequency)



Ultra Wide Band Low Noise Amplifier 0.7GHz~6GHz

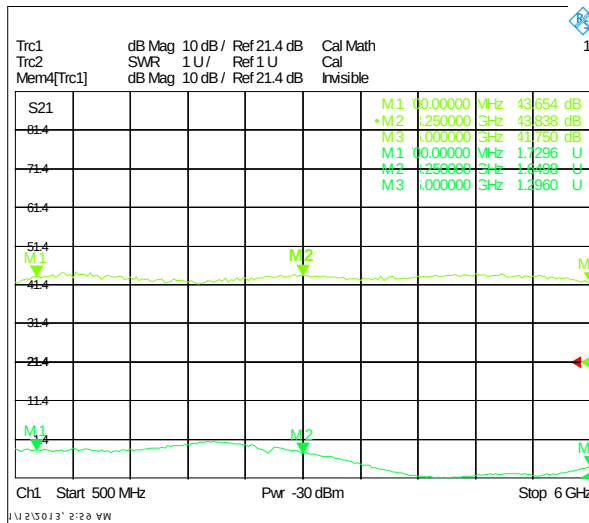


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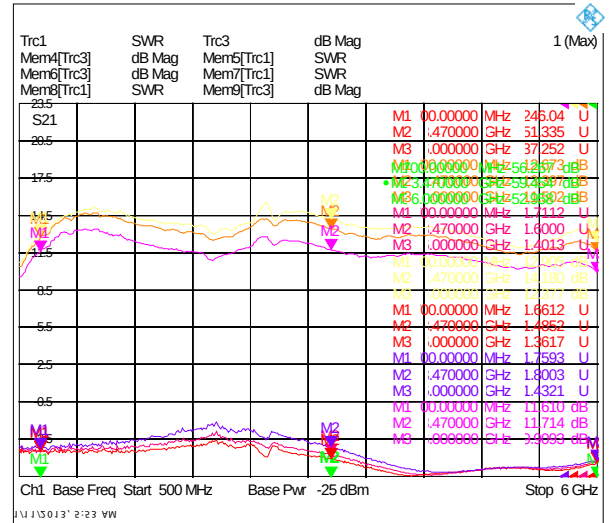
The power beyond expectations

RLNA07M06GA

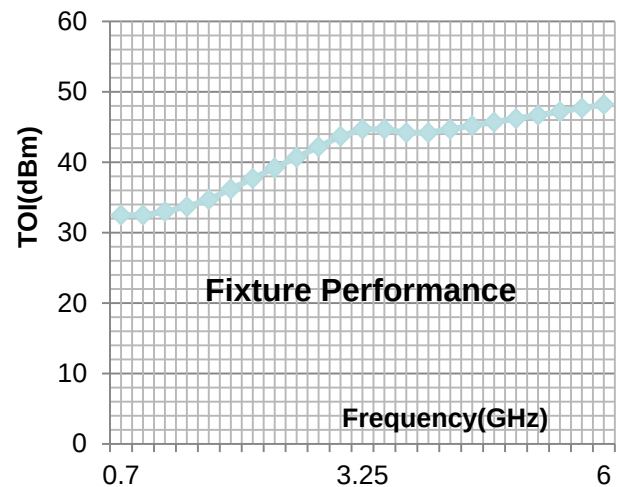
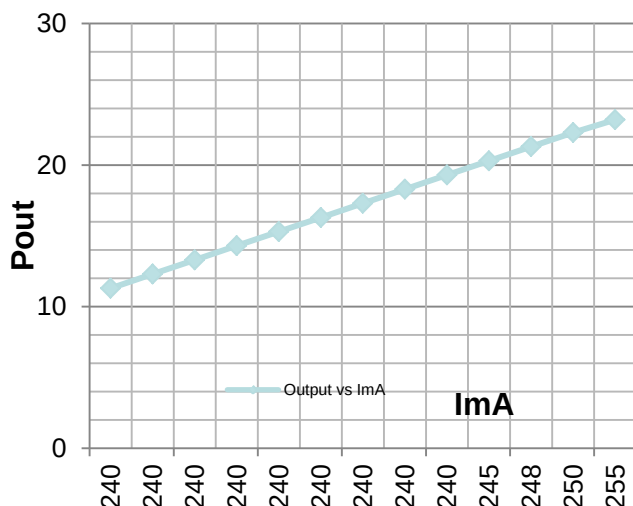
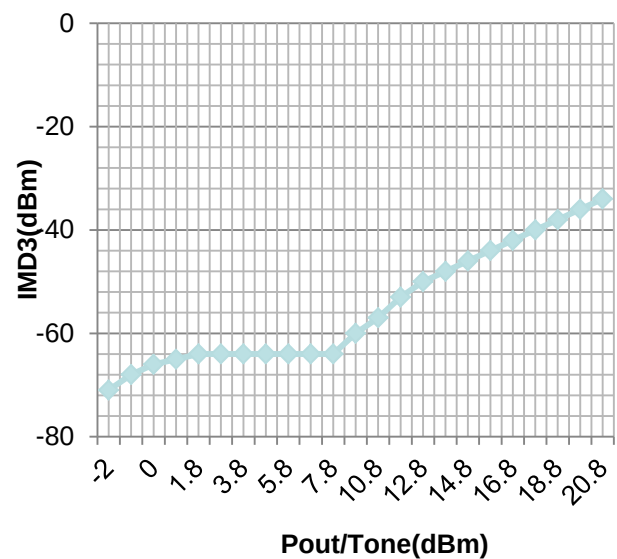
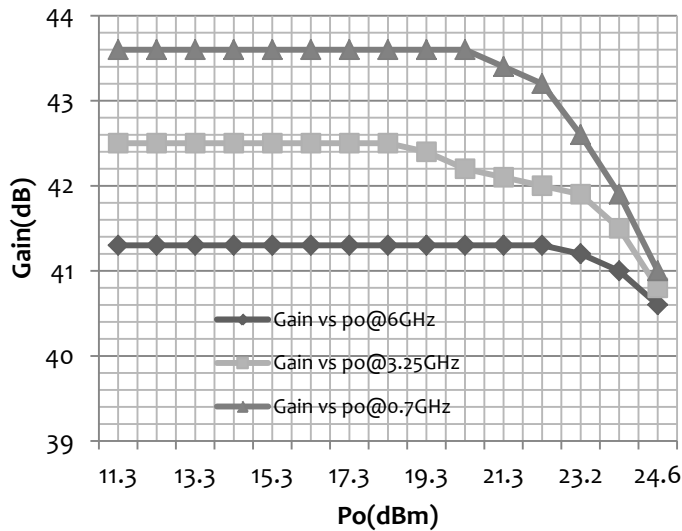
GAIN & VSWR (Over Frequency)



Gain / VSWR (Over Temperature)



1dB compression



Fixture Performance

Frequency (GHz)

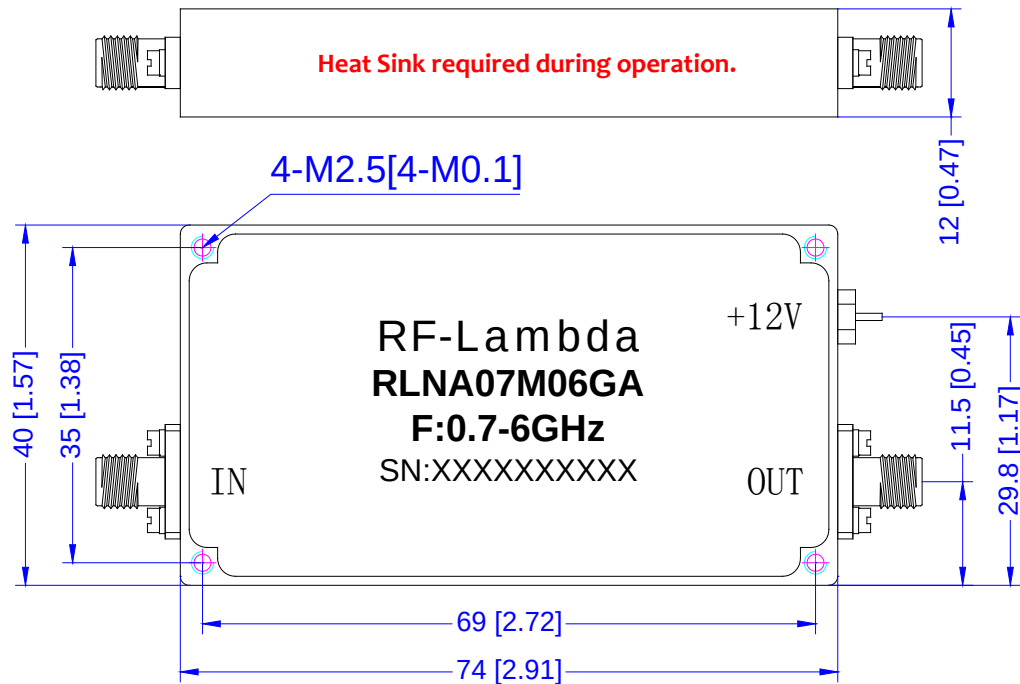
Ultra Wide Band Low Noise Amplifier 0.7GHz~6GHz



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The power beyond expectations

RLNA07M06GA



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Ultra Wide Band Low Noise Amplifier 0.7GHz~6GHz