



RF-LAMBDA

The power beyond expectations

RLNA06G07G

Narrow Band Low Noise Amplifier 6.0-7.9GHz

DC +12V Model

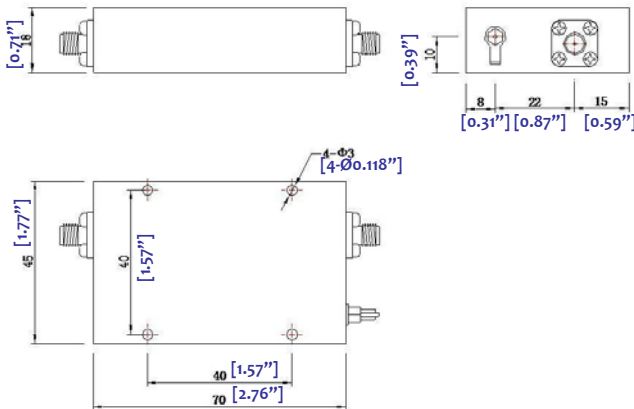
AC 110V/220V Model

- High Gain 42dB
- Applicable for base station, repeaters of cellular network
- LMDS multi-carrier operation
- Aerospace and military applications
- High Peak to average handle capability
- High Linearity and low noise figure
- All specifications can be modified upon request



Electrical Specifications			
Frequency :	6.0-7.9GHz	P1dB	20dBm
Noise Figure:	2.0dB typ. 2.9dB Max	Out IP3:	30dBm
Gain:	42dB $\Delta G/\Delta T=0.03\text{dB}/^\circ\text{C}$	Output VSWR:	2.0 : 1
Gain Flatness:	+/-1.0dB	Input VSWR:	2.0 : 1
Input Power:	-22dBm(max)	Power DC/AC:	DC type: +12V/300mA max AC Type: 110V AC 60Hz

Heat Sink required during operation.



Package: RL-11

Mechanical Environmental Spec.	
Operation Temperature:	-40°C to 85°C base plate
Vibration:	14.2g RMS (15-2000Hz) functional
	16.2g RMS (15-2000Hz) endurance, 1 hour /axis
Connectors:	RF SMA-F / N-F Removable
	Supply RFI filter solder Pin (or 110V AC power plug)
Mechanical shock	30G, 11mSec half sin wave, 3 axis both directions
Humidity	95% relative humidity, 65°C 96Hour
MTBF	50000 hour min
Case:	Conductive no paint
Dimension (L x W x H):	See Drawing (DC model) 7.87" X 4.72" X 1.00" (AC model)

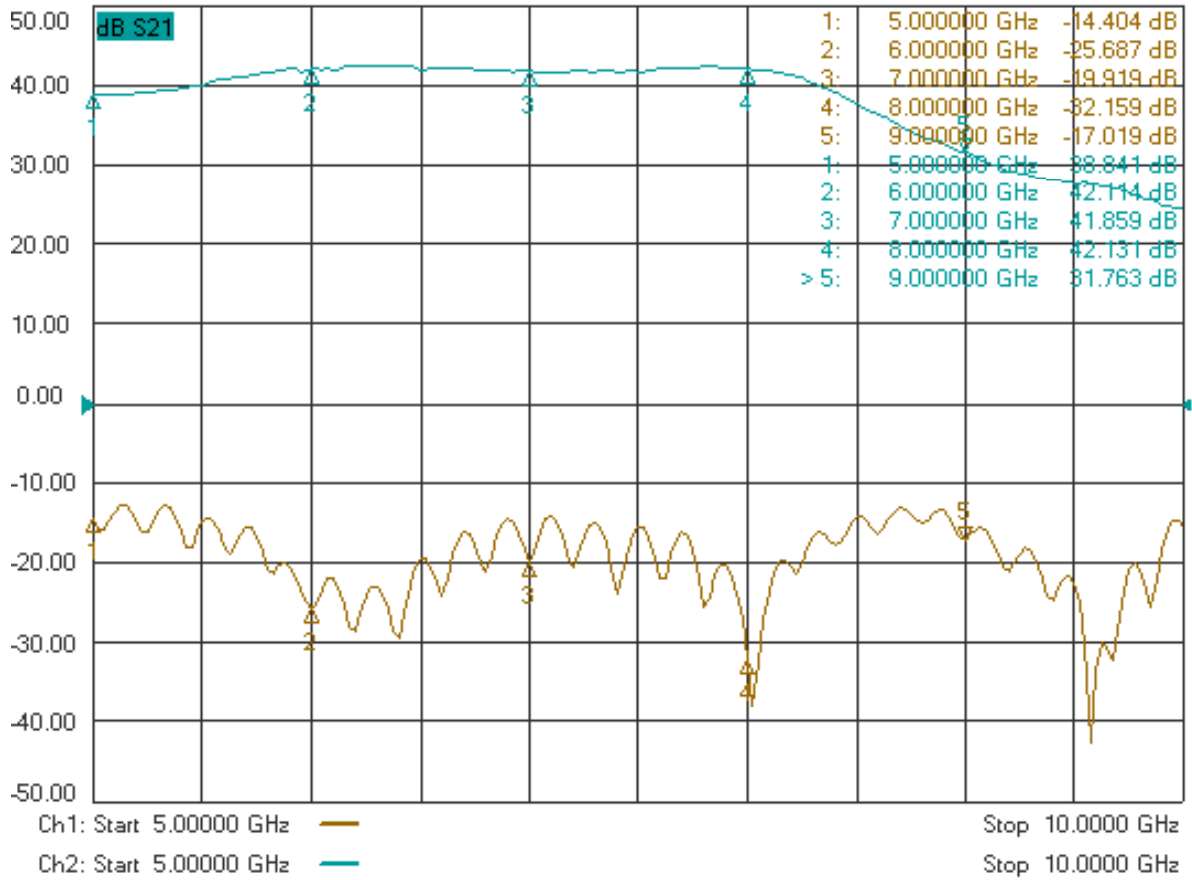
Narrow Wide Band Low Noise Amplifier 6.0GHz~7.9GHz



RF-LAMBDA

The power beyond expectations

RLNA06G07G



Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB	Idd (mA)
6.00	-24.80	42.80	-48	-11.1	20.60	230.00
7.00	-20.80	41.80	-46	-12.0	20.60	
8.00	-24.20	42.00	-54	-10.7	20.80	

Narrow Wide Band Low Noise Amplifier 6.0GHz~7.9GHz