



RF-LAMBDA

The power beyond expectations

RLNA08M09M

Narrow Wide Band Low Noise Amplifier

0.8-0.9GHz

DC +12V Model

AC 110V/220V Model

High Gain 36dB

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

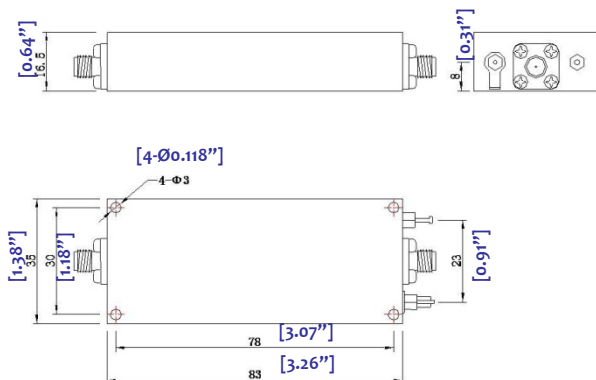
All specifications can be modified upon request



Electrical Specifications

Frequency :	0.8-0.9GHz	P1dB	22dBm
Noise Figure:	1.0dB typ. 1.5dB Max	Out IP3:	32dBm
Gain:	36dB $\Delta G/\Delta T=0.03\text{dB}/^{\circ}\text{C}$	Output VSWR:	1.5 : 1
Gain Flatness:	+/-0.5dB	Input VSWR:	1.5 : 1
Input Power:	-14dBm(max)	Power DC/AC:	DC type: +12V/300mA max AC Type: 110V AC 60Hz

Heat Sink required during operation.



Package : RL-16

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)

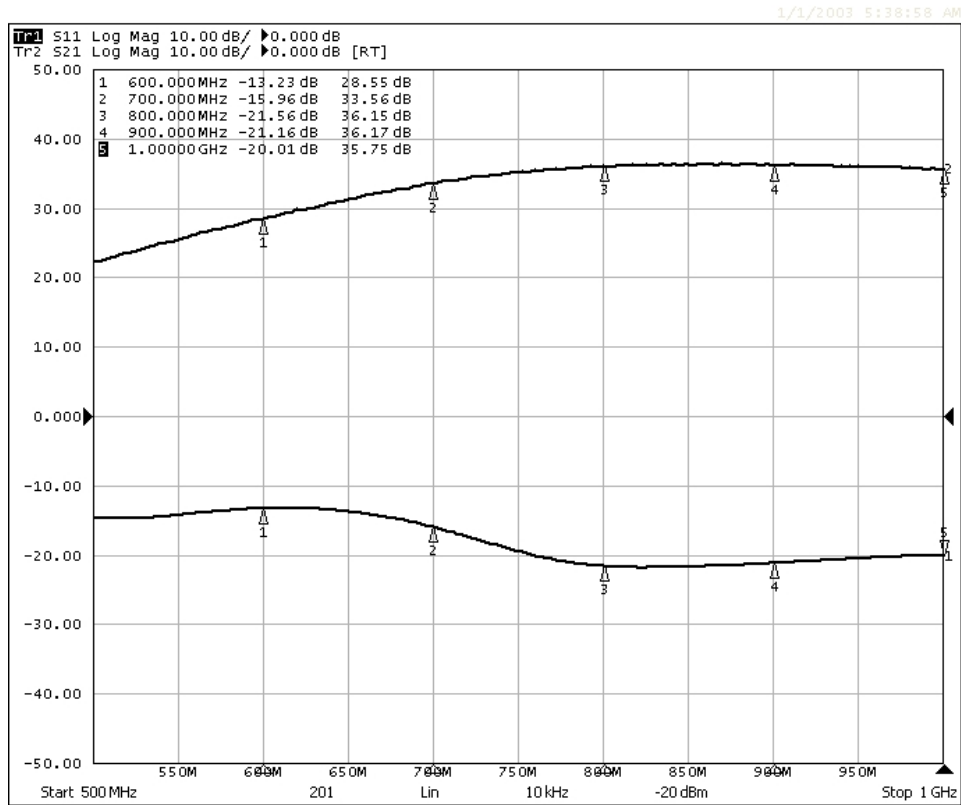
Narrow Wide Band Low Noise Amplifier 0.8-0.9GHz



RF-LAMBDA

The power beyond expectations

RLNA08M09M



Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB	Idd (mA)
0.80	-20.00	36.20	-43.8	-12	22.50	280.00
0.90	-20.00	36.10	-38.6	-16.9	22.40	
1.00	-18.60	35.80	-38.9	-19.4	22.00	

Narrow Wide Band Low Noise Amplifier 0.8-0.9GHz