



RF-LAMBDA

The power beyond expectations

RLNA08M02G

Narrow Band Low Noise Amplifier 800MHz~2200MHz

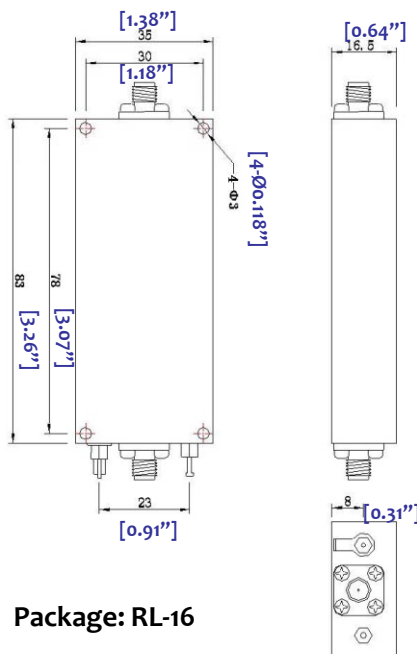
DC +12V Model

AC 110V/220V Model

- High Gain 47dB
- Applicable for base station, repeaters of cellular network
- LMDS multi-carrier operation
- High Peak to average handle capability
- High Linearity and low noise figure
- Lower Noise Figure unit available upon request



Electrical Specifications			
Frequency :	800MHz-2200MHz	P1dB	+7dBm
Noise Figure:	1.2dB typ. 1.5dB Max *	Out IP3:	+17dBm
Gain:	47dB	Output VSWR:	1.5 : 1
Gain Flatness:	+/-1.0dB	Input VSWR:	1.5 : 1
Input Power:	-38dBm (Max) **	Power DC/AC:	+12V VDC /90mA max ***



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)

*Contact manufacture for lower NF solution

** Input over drive protection available upon request

*** DC Reverse protection available upon request

****Heat sink required during operation.

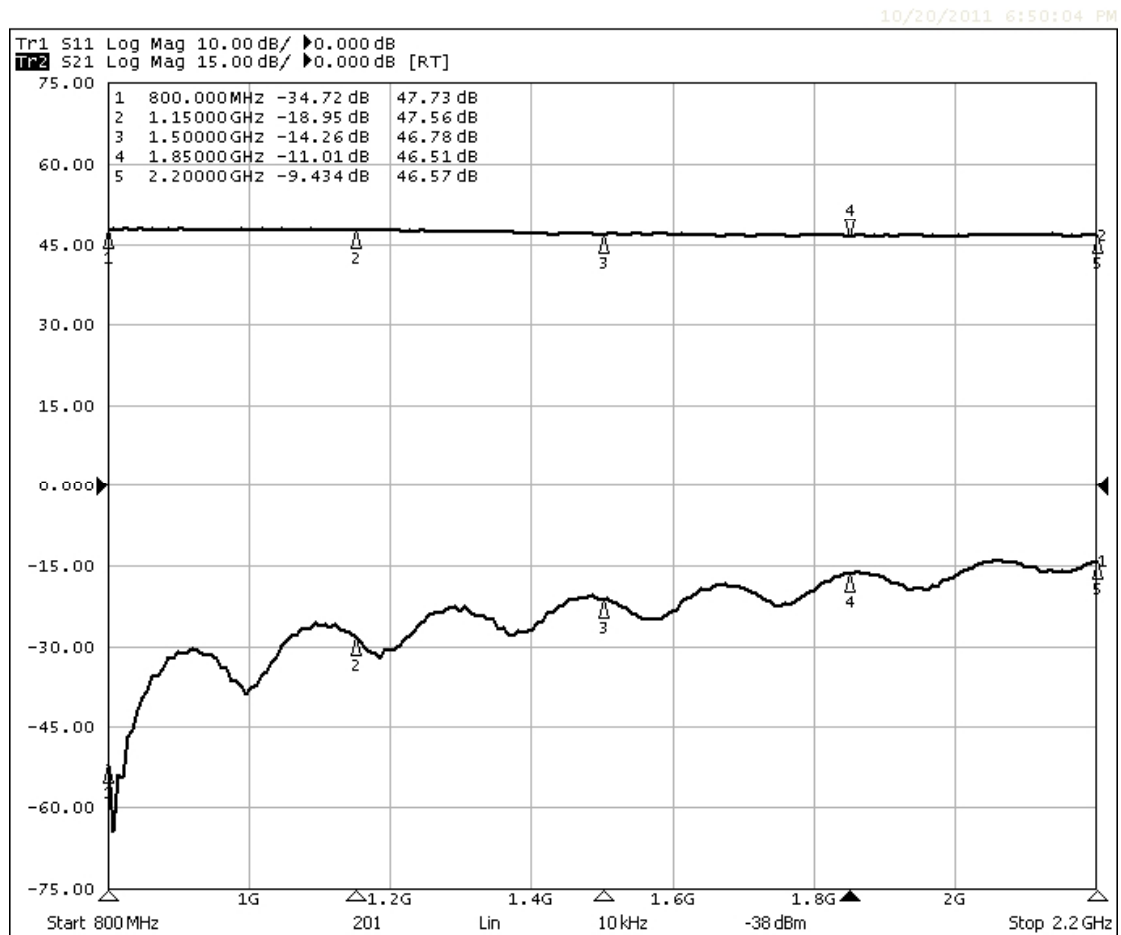
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Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB	Idd (mA)
0.80	-36.80	47.80	-56	-15.0	7.90	80.00
1.15	-19.90	47.60	-54	-16.0	7.80	
1.50	-14.50	46.60	-52	-19.0	7.80	
1.85	-11.10	46.20	-55	-17.2	7.60	
2.20	-9.30	45.80	-50	-14.3	7.30	

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