



RF-LAMBDA

The power beyond expectations

RLNA14G18G

Wide Band Low Noise Amplifier 14.0GHz~18.0GHz

DC +12V Model

AC 110V/220V Model

- High Gain 40dB
- 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 :	14.0GHz-18.0GHz	P1dB	+22dBm
Noise Figure:	3.0dB typ. 3.8dB Max *	Out IP3:	+32dBm
Gain:	40dB	Output VSWR:	2.0 : 1
Gain Flatness:	+/-1.5dB	Input VSWR:	2.0 : 1
Input Power:	-18dBm (Max) **	Power DC/AC:	+12V/400mA max ***

*Contact manufacture for lower NF solution

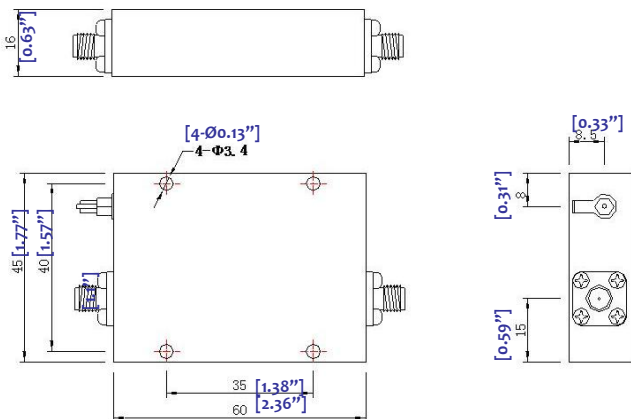
** Input over drive protection available upon request

*** DC Reverse protection available upon request

****Heat sink required during operation.

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)



Package: RL-07

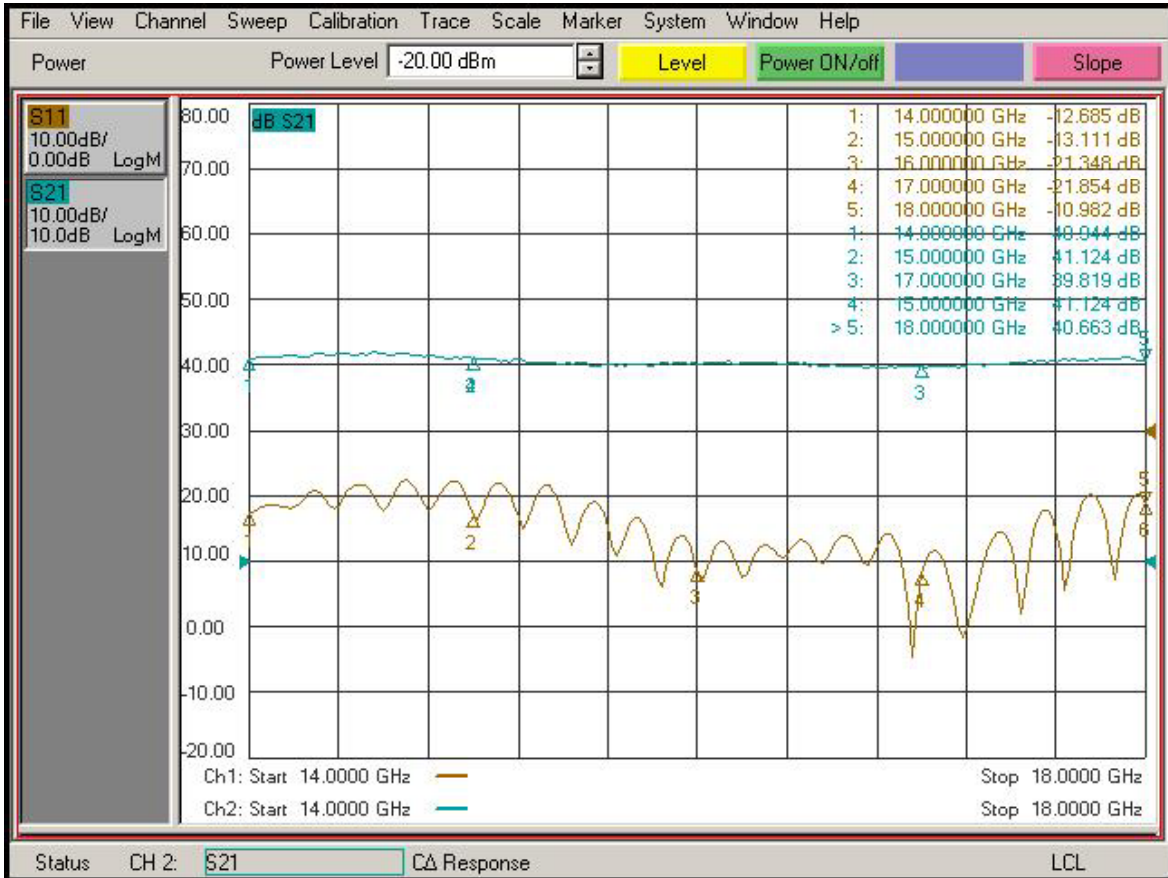
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Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB	Idd (mA)
14.00	-12.60	40.00	-51	-11.4	22.70	350.00
15.00	-13.10	41.10	-45	-14.4	22.80	
16.00	-21.30	-40.20	-45	-10.2	22.50	
17.00	-21.80	39.80	-44	-15.5	22.50	
18.00	-10.90	40.60	-44	-15.9	22.50	