



RF-LAMBDA

The power beyond expectations

RLNA01M06GA

Ultra Wide Band Low Noise Amplifier

0.1GHz~6.0GHz

DC +12V Model

AC 110V/220V Model

High Gain 38dB

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

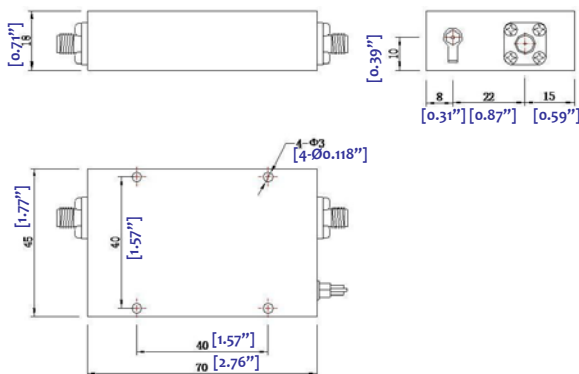
All specifications can be modified upon request



Electrical Specifications

Frequency :	0.1GHz-6.0GHz	P1dB	20dBm
Noise Figure:	3.5@2GHz	Out IP3:	30dBm
Gain:	38dB $\Delta G/\Delta T=0.03\text{dB}/^\circ\text{C}$	Output VSWR:	2.5 : 1
Gain Flatness:	+/-2.5dB	Input VSWR:	2.5 : 1
Input Power:	-18dBm(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)

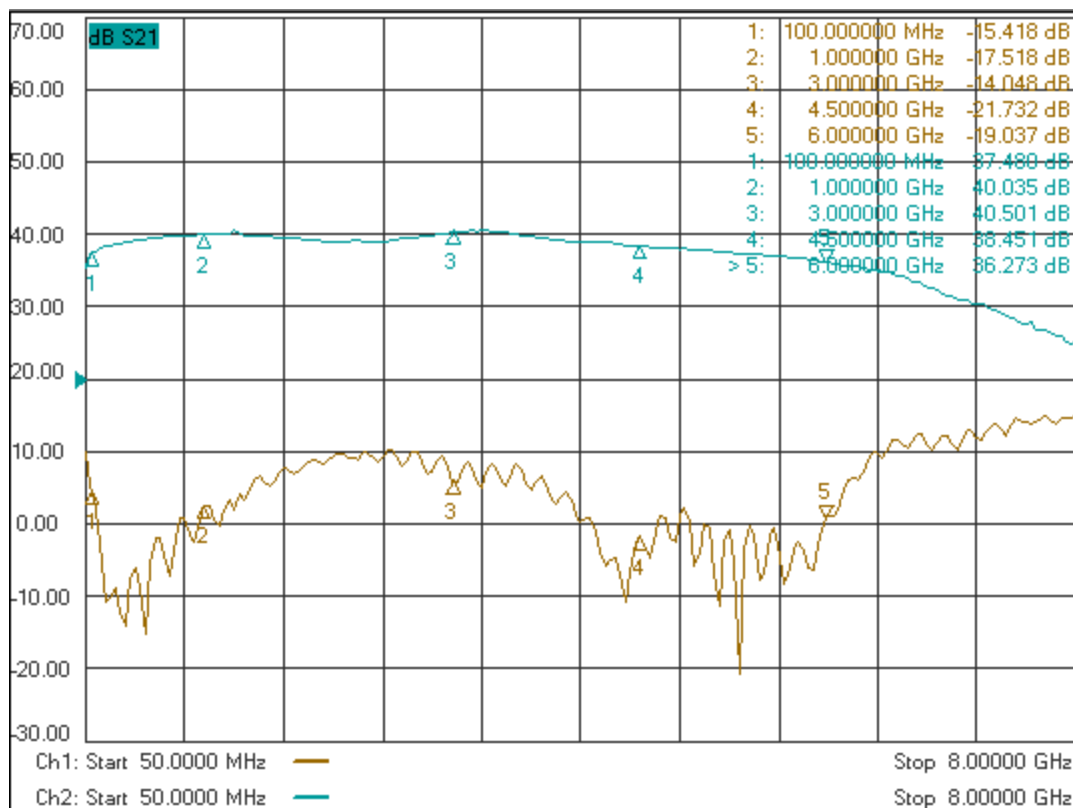
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Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB (dBm)	Idd (mA)
0.10	-15.40	37.00	-44	-20.1	20.90	200.00
1.00	-17.50	40.00	-50	-17.5	21.10	
3.00	-14.00	40.50	-43	-16.4	20.80	
4.50	-21.70	38.40	-43	-13.0	20.50	
6.00	-19.00	36.20	-45	-14.5	20.30	

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