



RF-LAMBDA

The power beyond expectations

RLNA01M04GC

Ultra Wide Band Low Noise Amplifier 0.1GHz~4.0GHz

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

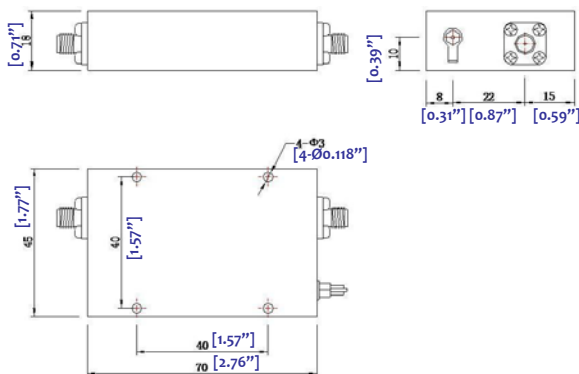
High Linearity and low noise figure

All specifications can be modified upon request



Electrical Specifications			
Frequency :	0.1GHz-4.0GHz	P1dB	23dBm
Noise Figure:	3.0@2GHz	Out IP3:	33dBm
Gain:	38dB $\Delta G/\Delta T=0.03\text{dB}/^{\circ}\text{C}$	Output VSWR:	2.5 : 1
Gain Flatness:	+/-2.0dB	Input VSWR:	2.5 : 1
Input Power:	-15dBm(max)	Power DC/AC:	DC type: +12V/250mA 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)

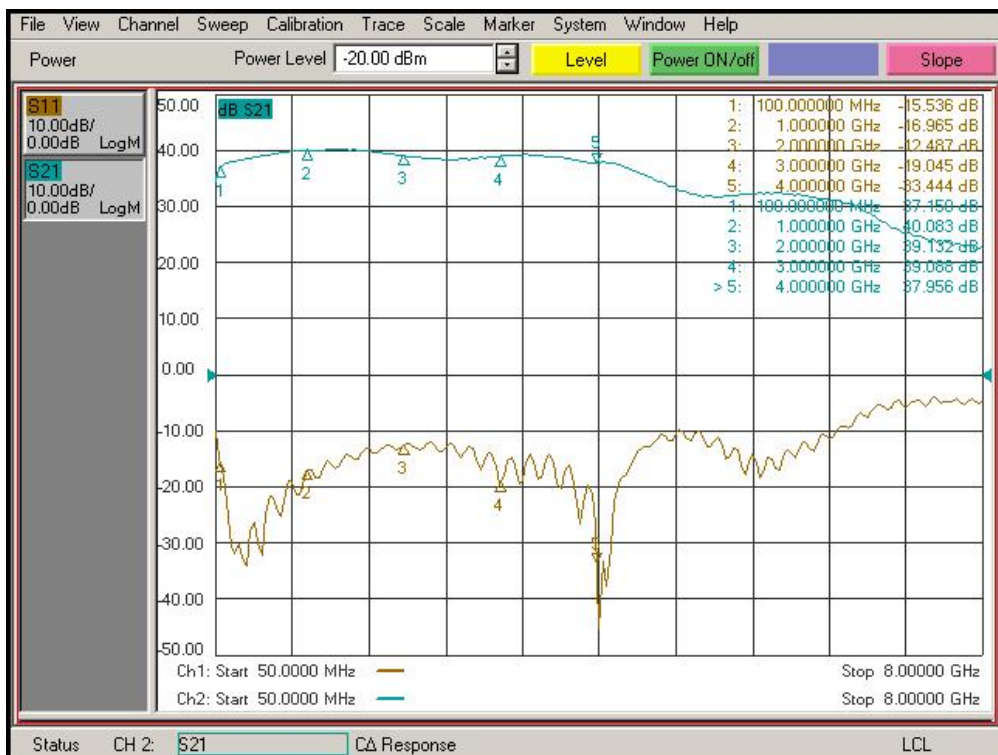
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SN	Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	NF (dB)	P1dB (dBm)	Idd (mA)
Specification	0.1-4.0GHz	-13	40+/-2	-38	-11	4.5	23.0	
Temperature 25°C								
1#	0.10	-12.40	39.10	-45	-11.1	4.20	23.40	220.00
1#	1.00	-17.30	41.30	-38.1	-14.6	4.40	25.10	
1#	2.00	-13.50	40.70	-39	-11.8	4.60	24.40	
1#	3.00	-13.20	40.20	-38.4	-9.3	4.70	24.10	
1#	4.00	-21.50	39.70	-36	-11.9	4.60	23.60	

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