



# RF-LAMBDA

The power beyond expectations

RLNA09G10G

## Narrow Band Low Noise Amplifier 9.5GHz~10.8GHz

- High Gain 33dB
- Applicable for base station, repeaters of cellular network
- Aerospace and military application
- LMDS multi-carrier operation
- High Peak to average handle capability
- High Linearity and low noise figure
- Lower Noise Figure unit available upon request

**Heat Sink required during operation.**



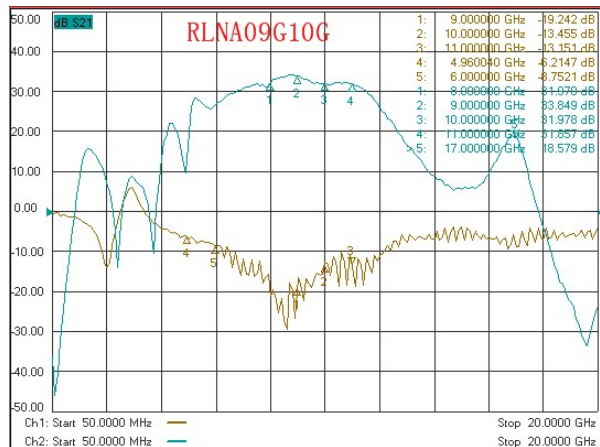
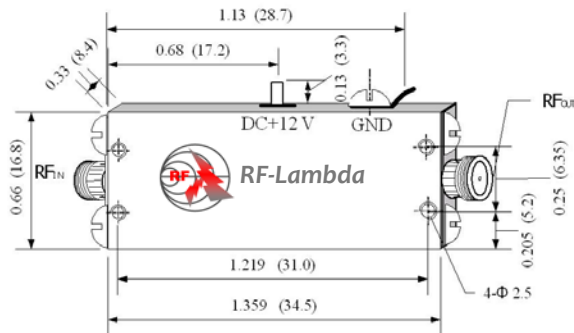
Electrical Specifications			
Frequency :	9.5GHz~10.8GHz	P1dB	+10dBm
Noise Figure:	1.50dB typ. 2.5dB Max *	Out IP3:	+20dBm
Gain:	33dB	Output VSWR:	1.5 : 1
Flatness:	+/-0.8dB	Input VSWR:	1.5 : 1
Input Power	-23dBm (Max) **	DC Voltage:	+12V/150mA max ***
Mechanical and Environmental Specifications			
Operation Temperature:	-40°C to 85°C base plate	Mechanical shock	30G, 11mSec half sin wave, 3 axis both directions
Vibration:	14.2g RMS (15-2000Hz) functional	Humidity	95% relative humidity, 65°C 96Hour
	16.2g RMS (15-2000Hz) endurance, 1 hour per axis	MTBF	50000 hour min
Connectors:	RF SMA or N Removable	Case:	Conductive no paint
	Supply RFI filter solder Pin	Dimension Size (L x W x H):	1.36" x 0.66" x 0.33" 34.5mm x 16.8mm x 8.4mm

Freq (GHz)	Rlin (dB)	Ga (dB)	Rlout (dB)	P1dB (dBm)	Idd (mA)
9.5	-12.2	33.4	-14.2	12.6	
10	-13.2	32.8	-10.9	12.3	88
11	-11.3	31.8	-11.2	12.1	

\*Contact manufacture for lower NF solution

\*\* Input over drive protection available upon request

\*\*\* DC Reverse protection available upon request



Narrow Band Low Noise Amplifier 9.5GHz~10.8GHz