



RF-LAMBDA

The power beyond expectations

RLNA11M01G

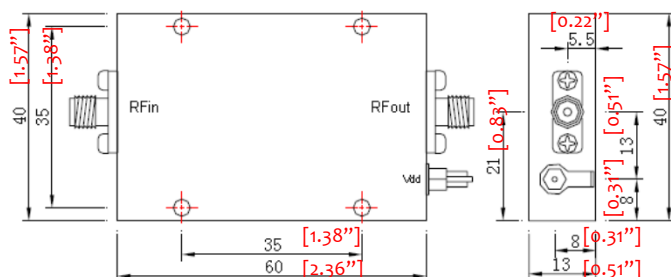
Narrow Band Low Noise Amplifier 1.1GHz~1.7GHz

- High Gain 31dB
- 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



Narrow Band Low Noise Amplifier 1.1GHz~1.7GHz

Electrical Specifications			
Frequency :	1100MHz-1700MHz	P1dB	+20dBm
Noise Figure:	1.2dB typ. 1.5dB Max *	Out IP3:	+30dBm
Gain:	31dB	Output VSWR:	1.5 : 1
Flatness:	+/-0.8dB	Input VSWR:	1.5 : 1
Input Power	-11dBm (Max) **	DC Voltage:	+12V/180mA 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-F Removable	Case:	Conductive no paint
	Supply RFI filter solder Pin	Dimension (L x W x H):	3.27" x 1.38" x 0.65" 83mm x 35mm x 16.5 mm



Heat Sink required during operation.

*Contact manufacture for lower NF solution

** Input over drive protection available upon request

*** DC Reverse protection available upon request



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SPA Test Report							
Product Type		LNA	Part Number		RLNA11M01G	SN	1#
Specification							
SN	Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB	Idd (mA)
Temperature 25°C							
1#	1.10	-15.50	33.50	-49	-16.7	20.80	210.00
1#	1.30	-17.10	33.40	-52	-15.2	20.70	
1#	1.40	-16.90	33.20	-53	-15.9	20.60	
1#	1.50	-20.50	33.00	-50	-13.6	20.40	
1#	1.70	-23.50	32.30	-45	-12.9	20.20	

