RF-LAMBDA

The power beyond expectations

RLNA02M06G

Wide Band Low Noise Amplifier 2.0GHz~6.0GHz

DC +12V Model

AC +110V Model

High Gain 42dB
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 Range:	2.0GHz-6.0GHz	**P1dB**	+20dBm
Noise Figure:	3.0dB typ. 4.0dB Max *	**Out IP3:**	+30dBm
Gain:	37dB~42dB	**Output VSWR:**	2.0 : 1
Flatness:	+/-2.5dB	**Input VSWR:**	2.0 : 1
Input Power	-18dBm (Max) **	**DC Voltage:**	DC type: +12V/280mA max AC Type: 110V AC 60Hz
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 /axis	**MTBF**	50000 hour min
Connectors:	RF SMA-F / N-F Removable	**Case:**	Conductive no paint
	Supply RFI filter solder Pin (or 110V AC power plug)	**Dimension (L x W x H):**	2.76" X 1.77" X 0.91" (DC) 7.87" X 4.72" X 1.00" (AC)

Freq (GHz)	Rlin (dB)	Ga (dB)	Rlout (dB)	P1dB (dBm)	Idd (mA)
2GHz	-9.7	42.2	-15.2	20.7	
3GHz	-15.4	41.5	-14.9	20.7	183
4GHz	-17.4	42.6	-15.8	21.1	
5Ghz	-19.5	41.8	-14.4	21.1	
6Ghz	-20.8	40.1	-21.6	21.1	

*Contact manufacture for lower NF solution

** Input over drive protection available upon request

*** DC Reverse protection available upon request

Heat Sink required during operation.

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