



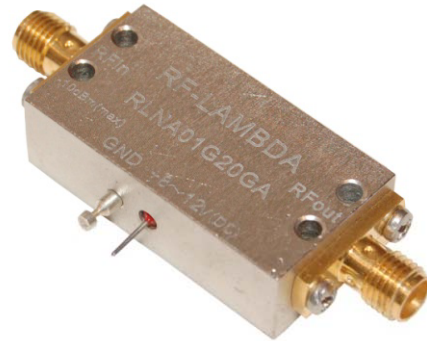
RF-LAMBDA

The power beyond expectations

RLNA02G06G

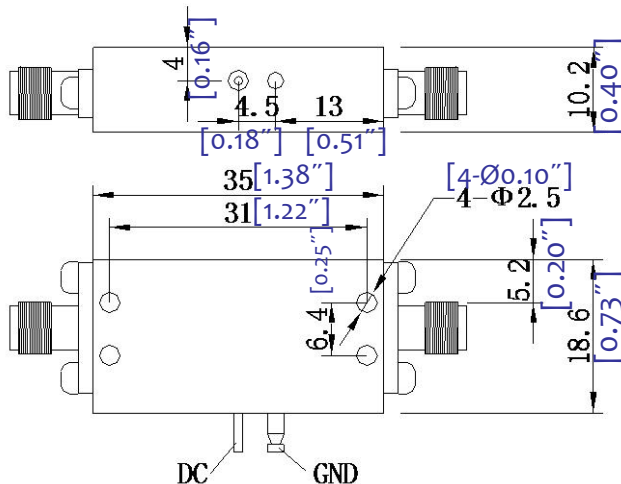
Wide Band Low Noise Amplifier 2.4GHz~6.0GHz

- High Gain 31dB
- 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



Wide Band Low Noise Amplifier 2.4GHz~6.0GHz

Electrical Specifications			
Frequency :	2.4GHz-6.0GHz	P1dB	+20dBm
Noise Figure:	2.8dB typ. 4.0dB Max *	Out IP3:	+30dBm
Gain:	30dB	Output VSWR:	2.0 : 1
Flatness:	+/-1.0dB	Input VSWR:	2.0 : 1
Input Power	-10dBm (Max) **	DC Voltage:	+12V/140mA 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 (L x W x H):	3.27" x 1.38" x 0.65" 57.90mm x 43.9mm x 15.98 mm



UNIT:mm XB-02A

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		RLNA02Go6G	SN	12050301
Specification							
SN	Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB (dBm)	Idd (mA)
Specification	2.4-6GHz	-11	30	-45	-7.5	20	
SN	Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB	Idd (mA)
Temperature 25°C							
12050301	2.40	-14.40	35.40	-38	-15.4	20.80	220.00
12050301	3.00	-14.20	35.40	-50	-12.9	20.90	
12050301	4.00	-12.80	34.20	-37	-7.5	20.80	
12050301	5.00	-11.60	31.30	-43	-12.3	20.50	
12050301	6.00	-13.60	32.80	-42	-7.2	20.30	

