RF-LAMBDA

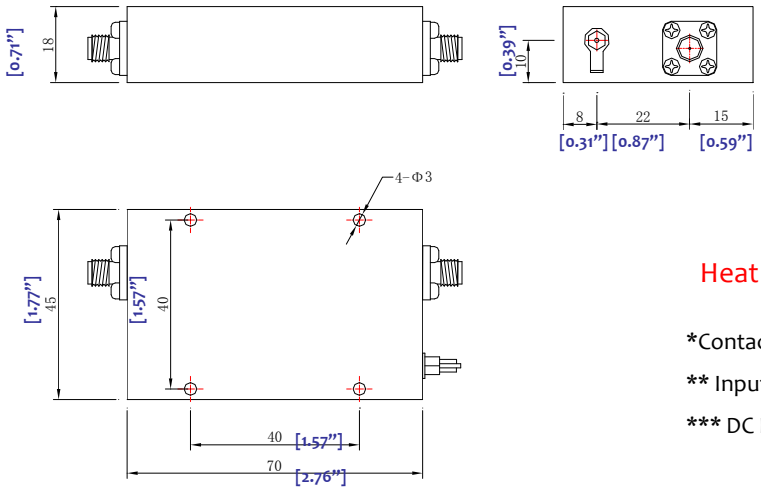
The power beyond expectations

RLNA03G04G

Narrow Band Low Noise Amplifier 3.7GHz~4.5GHz

- 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

Electrical Specifications			
Frequency :	3.7GHz~4.5GHz	**P1dB**	+20dBm
Noise Figure:	1.5dB typ. 2.0dB Max *	**Out IP3:**	+30dBm
Gain:	31dB	**Output VSWR:**	1.5 : 1
Flatness:	+/-0.8dB	**Input VSWR:**	1.5 : 1
Input Power	-8dBm (Max) **	**DC Voltage:**	+12V/270mA 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-11

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		RLNA03G04G	SN	12020205
Specification							
SN	Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB (dBm)	Idd (mA)
Specification	3.7-4.5GHz	-10	31	-45	-7.5	20	
SN	Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB	Idd (mA)
Temperature 25°C							
12020205	3.70	-13.30	34.20	-61	-6.5	20.80	250.00
12020205	3.90	-16.20	33.70	-49	-7.5	20.90	
12020205	4.10	-17.40	33.10	-46	-8.8	20.60	
12020205	4.30	-17.00	32.60	-44	-10.5	20.30	
12020205	4.50	-16.00	32.30	-64	-12.4	20.10