



RF-LAMBDA

The power beyond expectations

RLNA08G11G

Wide Band Low Noise Amplifier 8.0GHz~11.0GHz

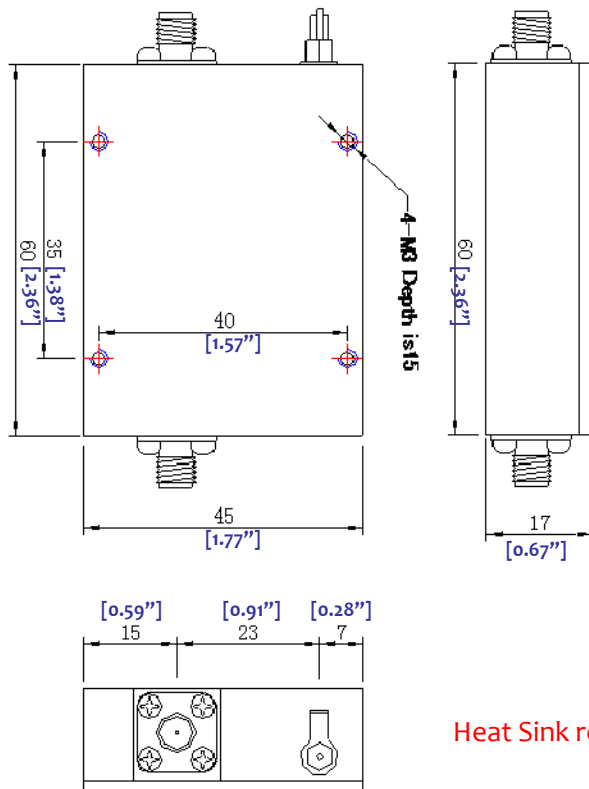
DC +12V Model

AC 110V/220V Model

- High Gain 45dB
- 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 :	8.0GHz-11.0GHz	P1dB	+27dBm
Noise Figure:	4.0dB typ. 5.5dB Max *	Out IP3:	+37dBm
Gain:	40dB	Output VSWR:	2.0 : 1
Flatness:	+/-1.0dB	Input VSWR:	2.0 : 1
Input Power	-13dBm (Max)	DC Voltage:	+12V/390mA max



Mechanical Environmental Spec.	
Operation Temperature:	-40°C to 85°C base plate
Vibration:	14.2g RMS (15-2000Hz) functional
	16.2g RMS (15-2000Hz) endurance, 1 hour /axis
Connectors:	RF SMA-F / N-F Removable
	Supply RFI filter solder Pin (or 110V AC power plug)
Mechanical shock	30G, 11mSec half sin wave, 3 axis both directions
Humidity	95% relative humidity, 65°C 96Hour
MTBF	50000 hour min
Case:	Conductive no paint
Dimension (L x W x H):	See Drawing (DC model) 7.87" X 4.72" X 1.00" (AC model)

Heat Sink required during operation.

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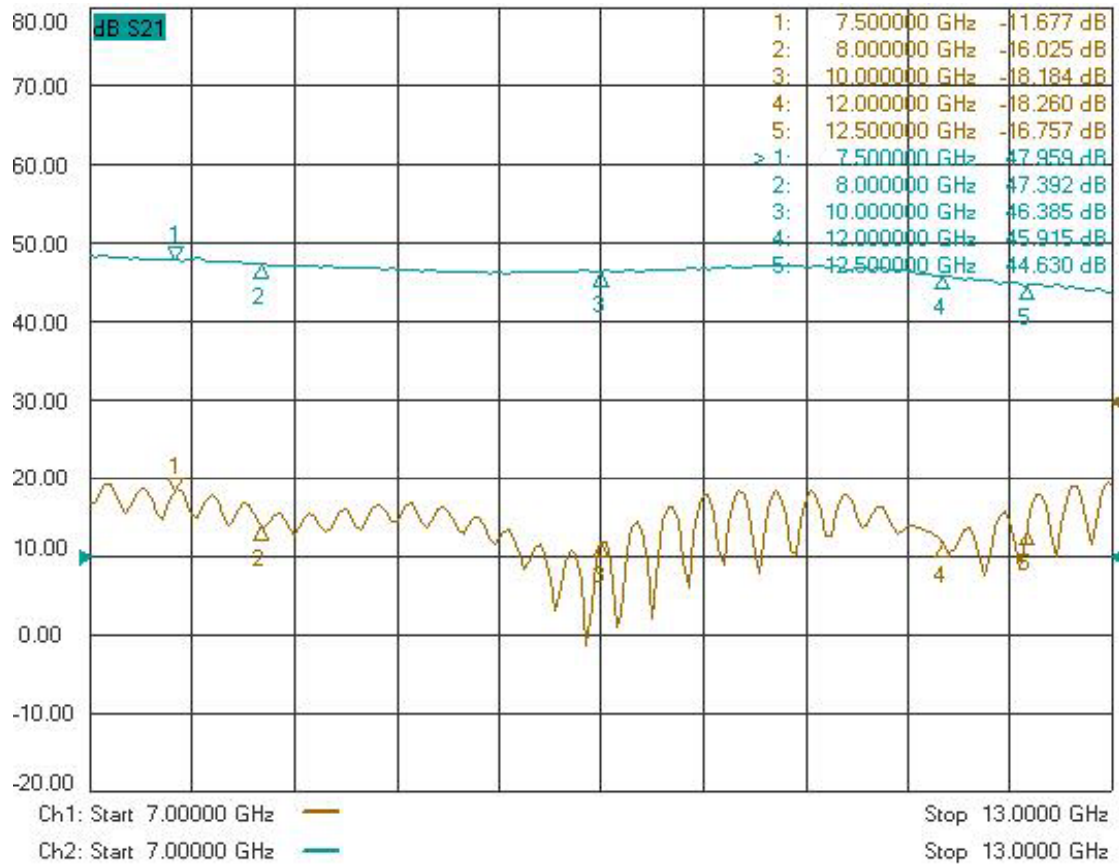


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SN	Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB	Idd (mA)
Temperature 25°C							
1#	8.00	-16.00	47.30	-51	-10.7	27.90	530.00
1#	10.00	-18.10	46.30	-52	-16.5	27.60	
1#	12.00	-18.20	45.90	-52	-17.4	27.30	