RF-LAMBDA

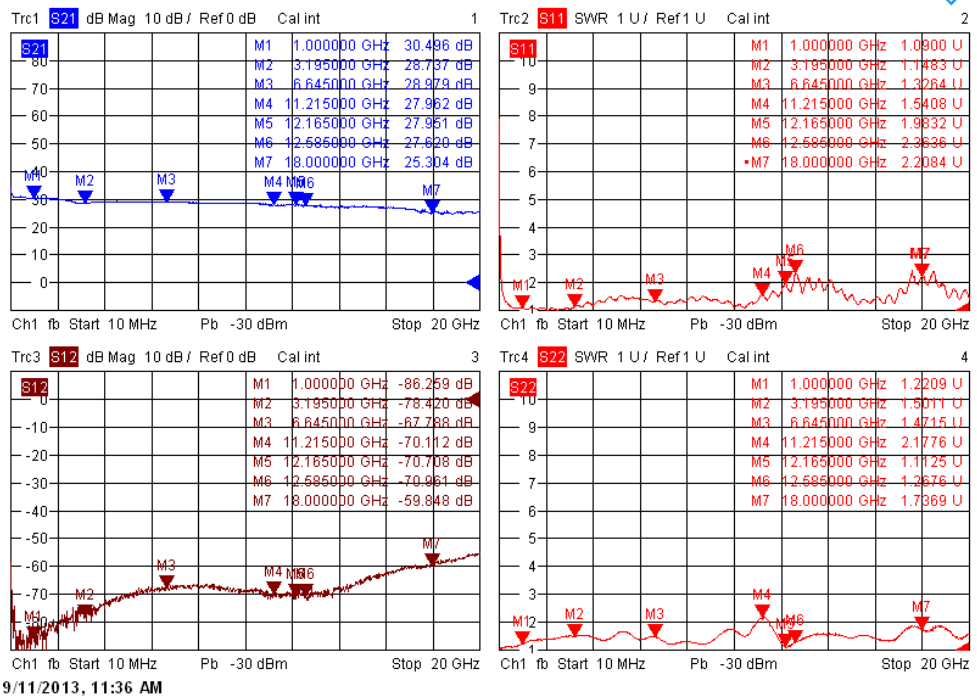
The power beyond expectations

RAMP01G18GA

AC Model Ultra Wide Band Low Noise Amplifier 1.0GHz~18GHz

- High Gain 28dB
- 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 :	**1.0GHz-18GHz**	**P1dB**	**15dBm**
Noise Figure:	**3.5@8GHz**	**Out IP3:**	**24dBm**
Gain:	**28dB** **ΔG/ΔT=0.03dB/℃**	**Output VSWR:**	**2.0 : 1**
Gain Flatness:	**+/-3.0dB**	**Input VSWR:**	**2.0 : 1**
Input Power:	**-13dBm(max)**	**Power :**	**110V /220V AC 60Hz**



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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)

SPA Test Report								
SN	Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	NF	P1dB	Idd
Temperature 25°C								
1#	1.00	-7.55	29.79	-58.48	-12.76	4.50	15.40	220.00
1#	5.00	-9.77	29.67	-56.12	-9.49	2.80	15.90	
1#	10.00	-9.87	29.28	-54.58	-7.59	3.10	16.70	
1#	14.00	-19.93	29.92	-53.16	-9.27	3.40	17.50	
1#	18.00	-27.29	27.40	-62.99	-15.46	4.30	15.60	

DRAWING: