

## Product Features

- Multi carrier power amplifier
- Solid State power amplifier
- High linearity and high efficiency
- 50 ohms input / output impedance

## Application

- CDMA Repeater



CDMA Multi Carrier RF Amplifier

## Electrical Specification

Parameter	Specification	Remark
Frequency Range	869MHz~894MHz	25MHz BW
Output Power	+37dBm (5W)	
Gain	45dB±0.5dB	
Gain Flatness	1dB peak to peak	
Gain Variation Over Temp.	±1dB max.	
IMD	< -60dBc	
Harmonic	-45dBc max.	
Input VSWR	1.4:1 max.	
Output VSWR	1.4:1 max.	Isolator Applied
Normal Operating Voltage	+27V	
DC Current Consumption	3A max.	
Enable	TTL Low Active	
Output Detect	+4.0V @Po=+37dBm	0.1V/dB
ALC	+38dBm±0.5dB	Over 10dB Range



### Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-10°C~+60°C	
Storage Temperature	-30°C~+85°C	
Relative Humidity	0%~90%	Non-condensing

### Mechanical Specification

Physical Dimension : 150mm X 120mm X 25mm

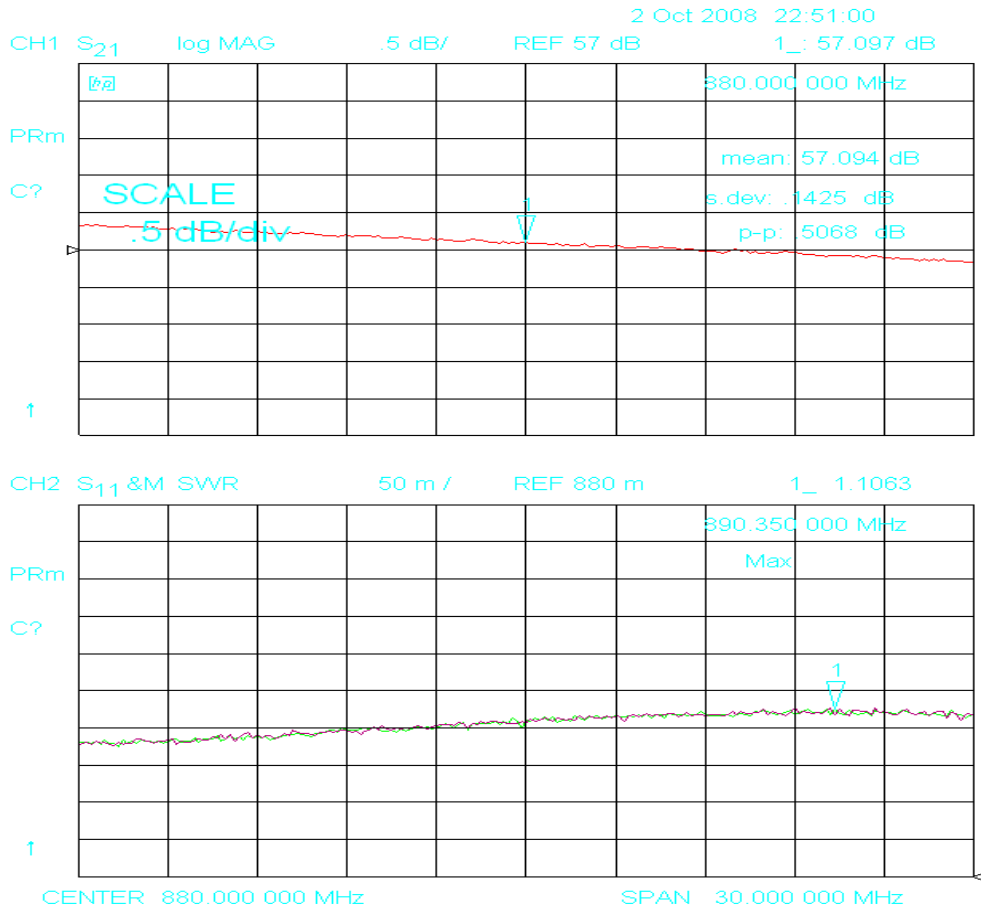
### Pin Assignment

I/O Interface	1,6,7,11. VCC	+27V
(D-Sub 15Pin Male)	2. Power Monitor	4.0V@+37dBm
	3. Enable / Disable	Enable: TTL Low or Open
	4. Temp. Monitor	$V_o = (T / 100) + 500mV$
	5,10,15 GND	
	12. Over Power Alarm	Po=+39dBm, Shutdown High
	13. VSWR Alarm	Po=+30dBm, Shutdown High
	14. Over Temp. Alarm	Alarm& Shutdown +90°C ↑ Auto Recovery +70°C ↓
	8,9. N.C	



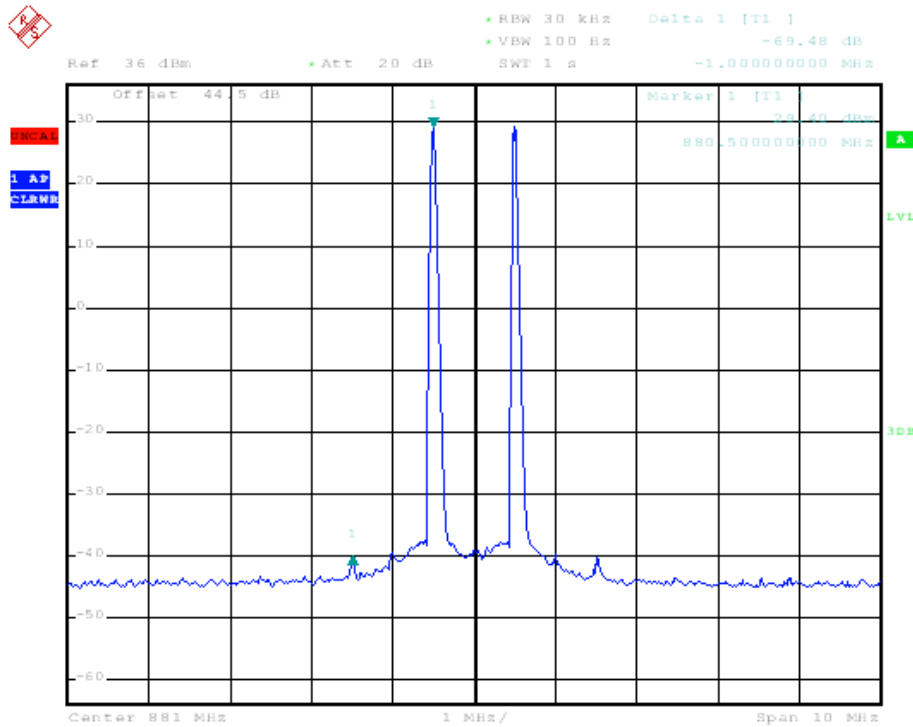
**Electrical Test Data**

Gain & Input VSWR

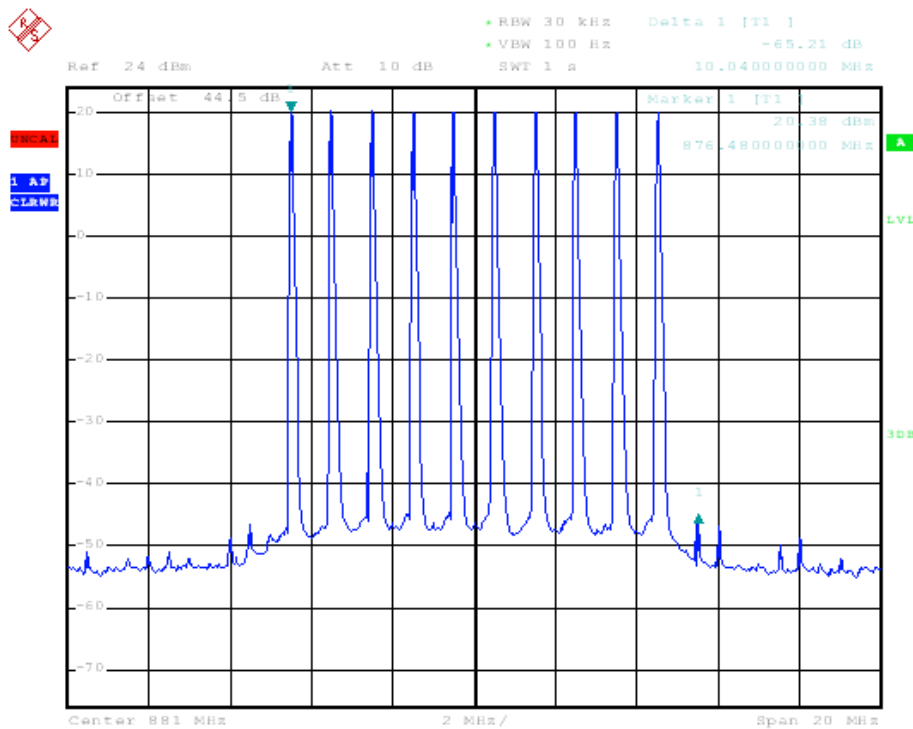




## 2 Tone IMD @Po=+37dBm



CW 2TONE / 1MHz Spacing  
Pout = 5W, DC=27V, 1.85A



CW 10TONE / 1MHz Spacing  
Pout = 5W, DC=27V, 1.85A



## Outline Drawing

