

Product Features

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

Application

- CDMA Repeater



Electrical Specification

Parameter	Specification	Remark
Frequency Range	869MHz~894MHz	25MHz BW
Output Power	+48dBm	
Gain	57dB±1dB	
Gain Flatness	1dB peak to peak	
Gain Variation Over Temp.	±1dB max.	
Spurious Emission (9Ch CDMA 20FA)	±750kHz < -29dBc ±1.98MHz < -44dBc	CW 2 tone
Harmonic	-45dBc max	
Input VSWR	1.5:1 max.	
Output VSWR	1.5:1 max.	Isolator Applied
Normal Operating Voltage	+27V	
DC Current Consumption	23A max.	
Enable	TTL Low Active	
Output Detect	+4.0V @Po=+48dBm	0.1V/dB
Output Power ALC	+49dBm±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 : 200mm X 225mm X 47mm

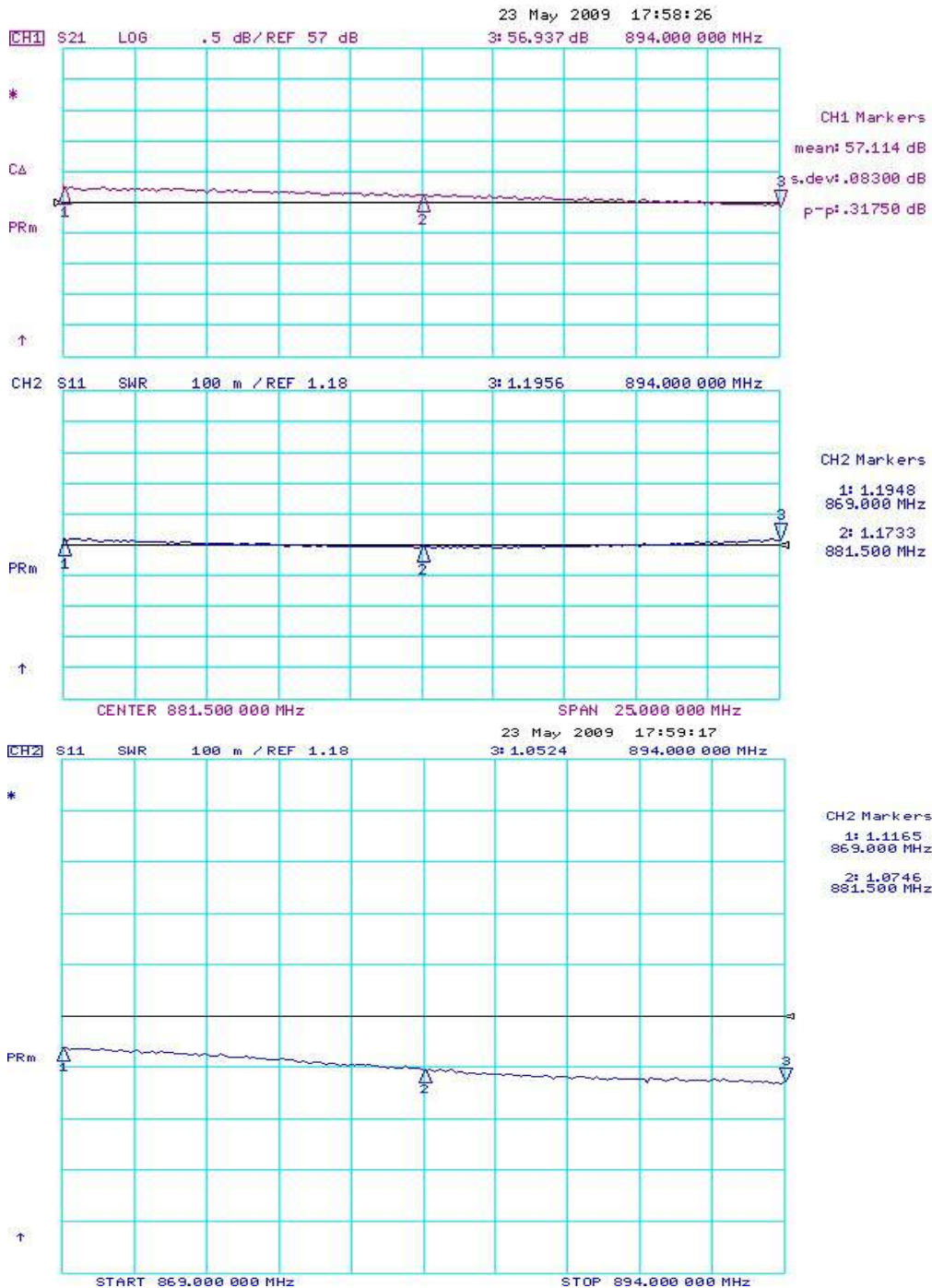
Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1. Enable/Disable	Enable : TTL Low
	2. Reserved	
	3. Power Monitor	4.0V@Po=+48dBm, 0.1V/dB
	4. Temp. Monitor	$V_o = (T / 100) + 500mV$
	5. Over Power Alarm	Po=+50dBm±0.5dB
	6. VSWR Alarm	Po=+43dBm Open
	7. Over Temp. Alarm	Alarm &Shutdown +90°C ↑ Auto Recovery +80°C ↓
	8. DC Fail Alarm	
	9. GND	
I/O Interface (3W3P Male)	A1. VCC	+27V
	A2. GND	
	A3. N.C	



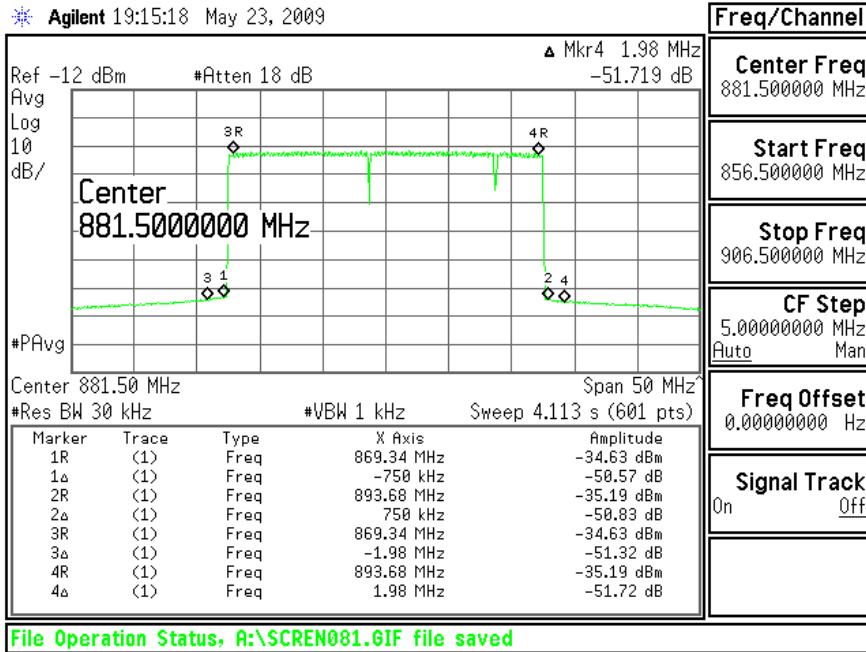
Electrical Test Data

Gain & In/Output VSWR





ACLR @Po=+48dBm(CDMA 20FA)



Current Consumption

+27V : 20.5A @Po=+48dBm



Outline Drawing

