

Product Features

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

Application

- TRS Repeater



Electrical Specification

Parameter	Specification	Remark
Frequency Range	806MHz~821MHz	15MHz BW
Output Power	3W	
Gain	47dB±1dB	
Gain Flatness	1dB peak to peak	
Gain Variation Over Temp.	±1dB max	-20°C~+60°C
IMD	< -60dBc	CW 10 tone, Sp. 25kHz
Harmonic	-45dBc max	
Input VSWR	1.5:1 max.	
Output VSWR	1.5:1 max.	Isolator Applied
Normal Operating Voltage	+27V	
DC Current Consumption	1.3A max.	
Enable	TTL Low Active	
Output Detect	4.0V @Po=+35dBm	0.1V/dB
ALC	Po=4W(+36dBm)	Over 10dB Range



Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-20°C~+60°C	
Storage Temperature	-40°C~+85°C	
Relative Humidity	0%~90%	Non-condensing

Mechanical Specification

Physical Dimension : 120mm X 150mm X 28mm

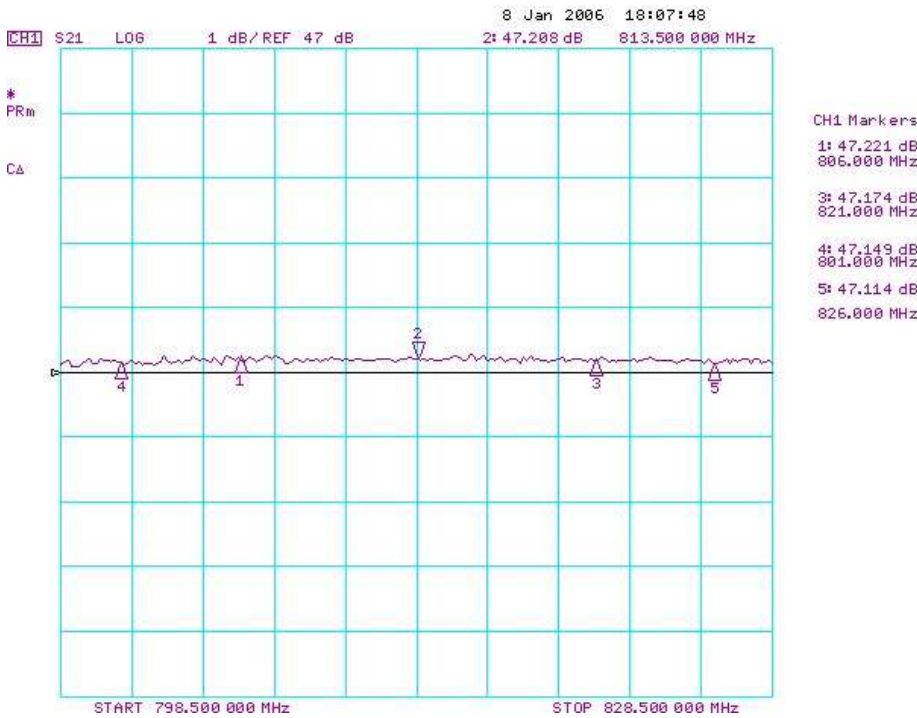
Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1. VCC	+27V
	2. VCC	+27V
	3. Enable/Disable	Enable : Low or open
	4. GND	
	5. GND	
	6. Over Power Alarm	Po=+37dBm
	7. VSWR Alarm	Po=+30dBm open
	8. Over Temp. Alarm	Alarm &Shutdown +90°C ↑ Auto Recovery +70°C ↓
	9. Power Monitor	4.0V@Po=+35dBm

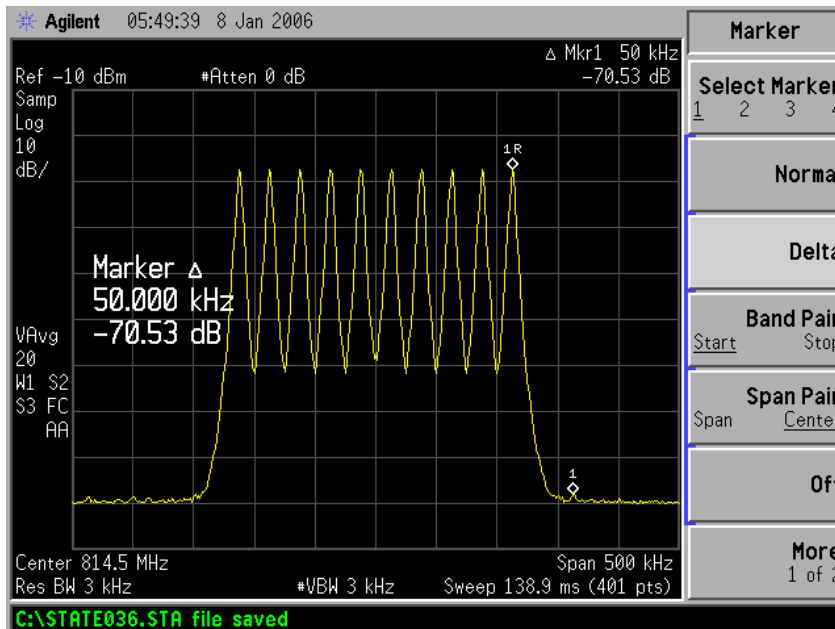


Electrical Test Data

Gain Flatness



IMD @Po=+3W(CW 10 Tone)



Current Consumption

+27V , 1.1A@Po=+3W



Outline Drawing

