

Product Features

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

Application

- TRS Repeater



TRS Multi Carrier RF Amplifier

Electrical Specification

Parameter	Specification	Remark
Frequency Range	851MHz~866MHz	15MHz BW
Output Power	30W	
Gain	54dB±1dB	
Gain Flatness	1dB peak to peak	
Gain Variation Over Temp.	±1dB max	-20°C~+60°C
IMD	< -60dBc	CW 10 tone, Ch 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	8.5A max.	
Enable	TTL Low Active	
Output Detect	+3.6V @Po=+45dBm	0.1V/dB



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 : 230mm X 255mm X 40mm

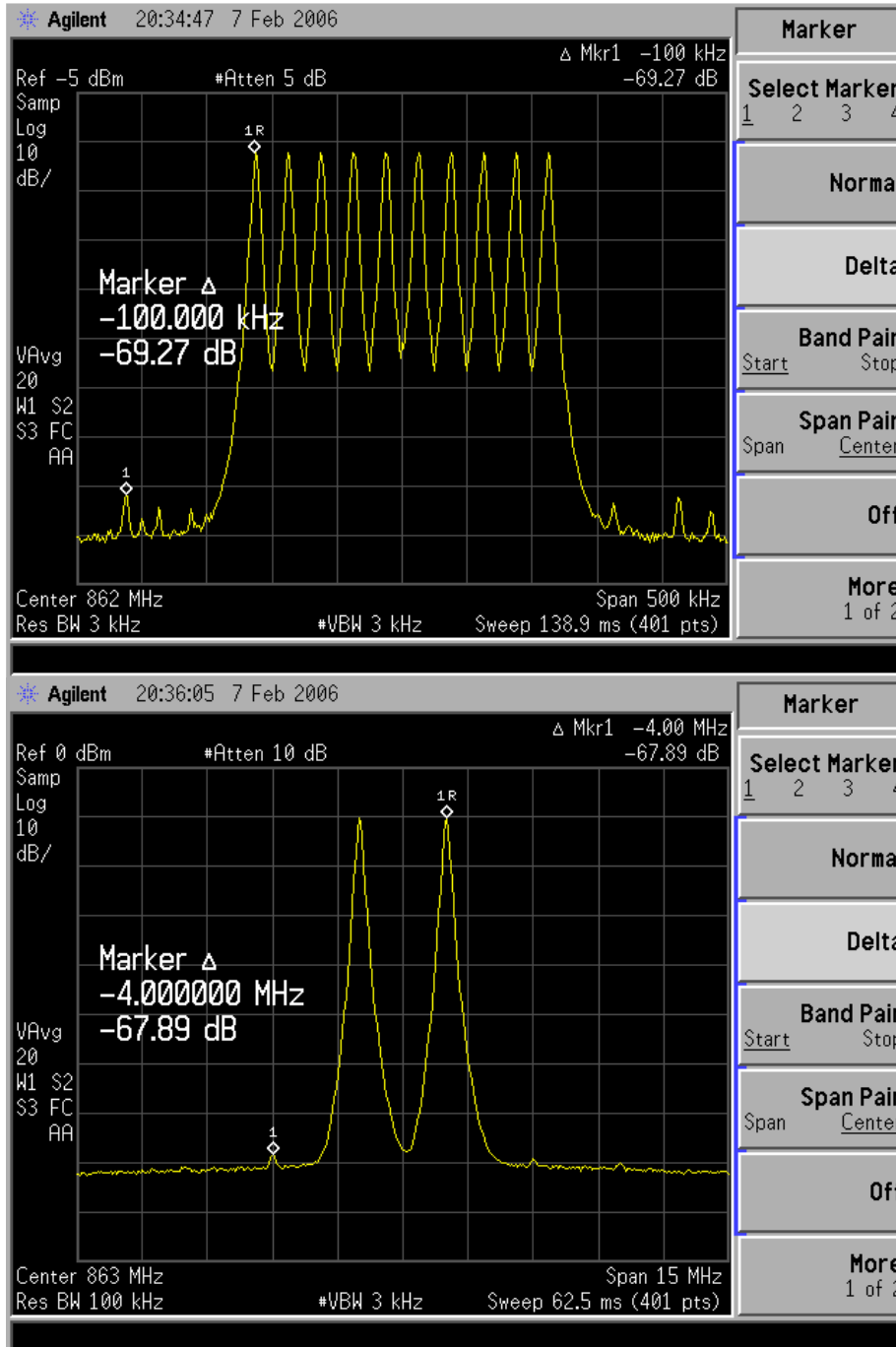
Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1. Enable/Disable	Enable : TTL Low
	2. GND	
	3. Power Monitor	3.6V@Po=+45dBm, 0.1V/dB
	4. Temp. Monitor	Vo=(T / 100)+500mV
	5. MCPA Status	Active Low
	6. Loop Fail Alarm	Shutdown High
	7. Over Temp. Alarm	Alarm &Shutdown +90°C ↑ Auto Recovery +70°C ↓
	8. VSWR Alarm	Over 3:1, Shutdown High
	9. Over Power Alarm	Po=+47dBm±1dB Shutdown High
I/O Interface (3W3P Male)	A1. VCC	+27V
	A2. GND	
	A3. N.C	



Electrical Test Data

ACLR @Po=+45dBm(CW 10 Tone / CW 2 Tone)



Current Consumption

+27V , 7.1A @Po=+45dBm



Outline Drawing

