



## Specification for MCPA of TRS System

### Electrical Specification

Parameter	Specification	Remark
Frequency Range	851MHz~866MHz	15MHz BW
Output Power	60W	
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	18A 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 : 430mm X 300mm X 88mm



## Pin Assignment

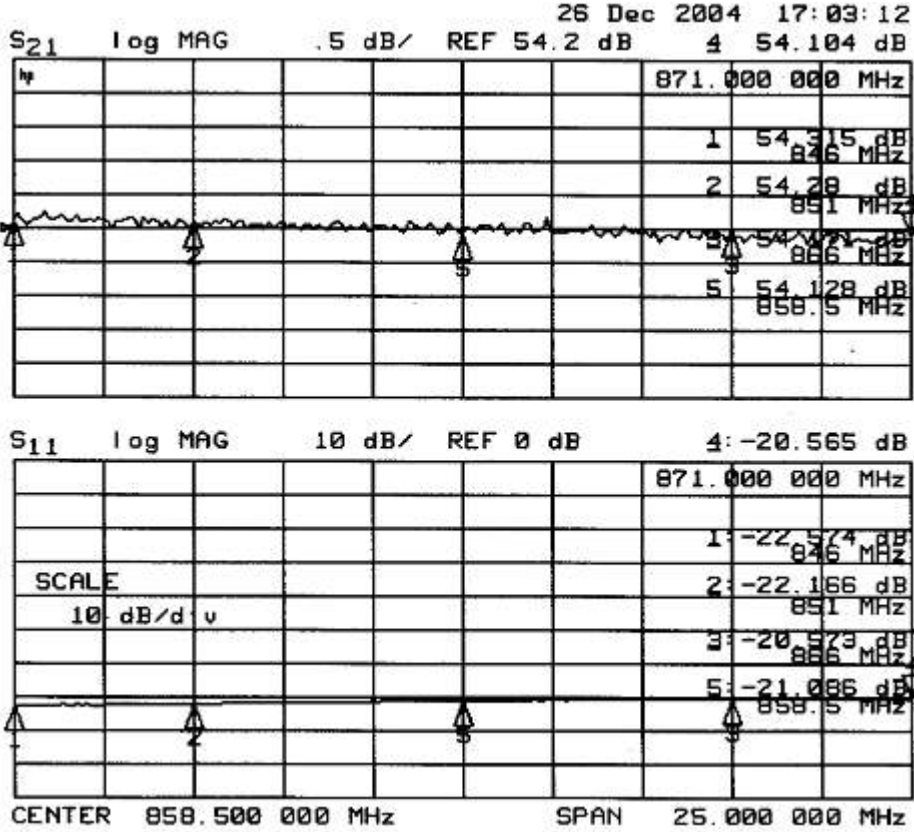
I/O Interface (D-Sub 15Pin Male)	1. Enable/Disable	Enable : TTL Low
	2. GND	
	3. Power Monitor	3.6V@Po=+48dBm, 0.1V/dB
	4. Temp. Monitor	$V_o = (T / 100) + 500mV$
	5. MCPA Status	Active Low
	6. Loop Fail Alarm	Shutdown High
	7. Over Temp. Alarm	Alarm & Shutdown +90°C ↑ Auto Recovery +70°C ↓
	8. VSWR Alarm	Over 3:1, Shutdown High
	9. Over Power Alarm	Po=+50dBm±1dB Shutdown High
	10. DC Fail Alarm	*Alarm, Shutdown & Recovery
	11~15. N.C	

\*DC Fail Alarm - Alarm(Shutdown): ↓ +19.0V(±0.5V), ↑ +31.0V(±0.5V)  
Auto Recovery: +21V~+29V

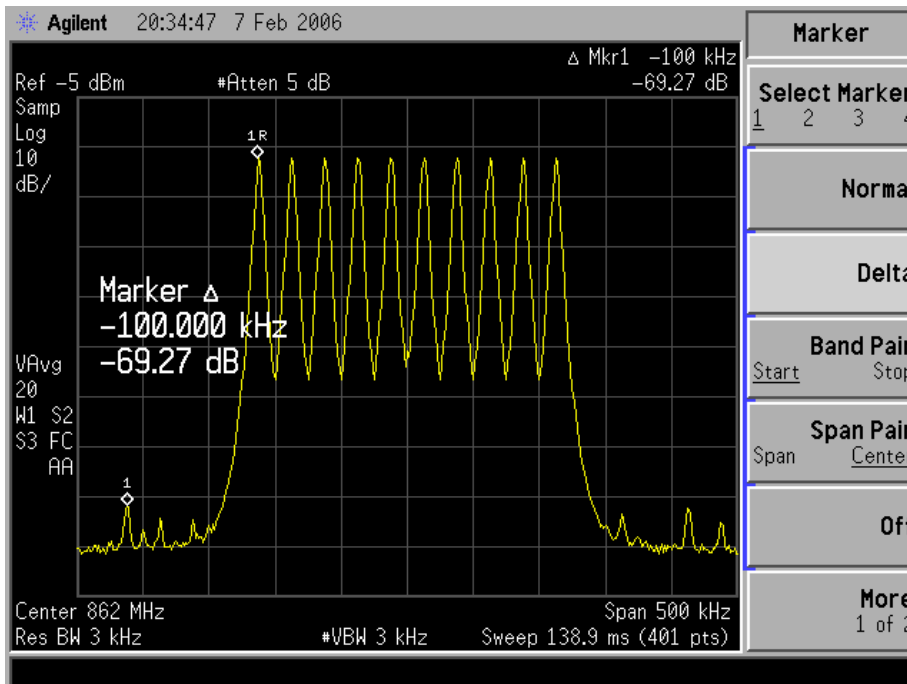


**Electrical Test Data**

Gain & Input VSWR



ACLR @Po=+48dBm(CW 10 Tone)





## Outline Drawing

