

Product Features

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

Application

- GSM Repeater



GSM Multi Carrier RF Amplifier

Electrical Specification

Parameter	Specification	Remark
Frequency Range	935MHz~960MHz	25MHz BW
Output Power	+51dBm (125W)	
Gain	60dB±0.5dB	
Gain Flatness	1dB peak to peak	
Gain Variation Over Temp.	±1dB max.	
IMD@+35°C	< -65dBc@ 2 Tone < -62dBc@ 4 Tone / 8 Tone	CH Sp. 600kHz, Po=+51dBm
Harmonic	-45dBc max	
Input VSWR	1.3:1 max.	
Output VSWR	1.3:1 max.	Isolator Applied
Normal Operating Voltage	+28V	
DC Current Consumption	26A max.	
Enable	TTL Low Active	
Output Detect	+3.7V @Po=+51dBm	0.1V/dB
Output Power ALC	+51.5dBm±0.5dB	Over 10dB Range



Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-25°C~+60°C	
Storage Temperature	-40°C~+80°C	
Relative Humidity	0%~90%	Non-condensing

Mechanical Specification

Physical Dimension : 300mm X 260mm X 58mm

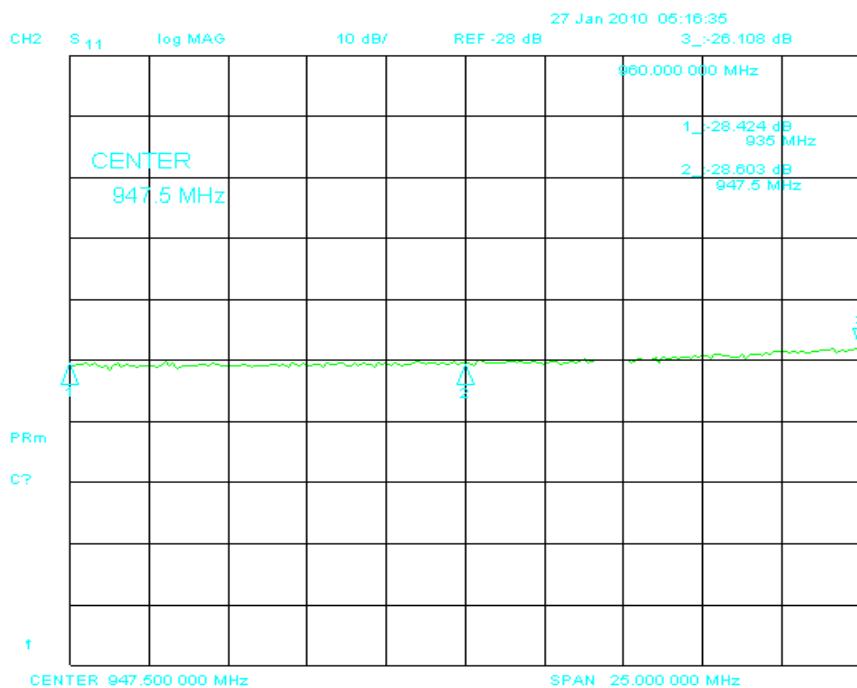
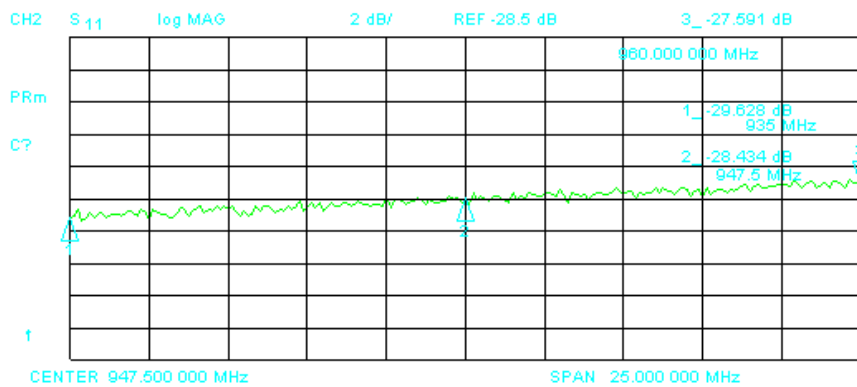
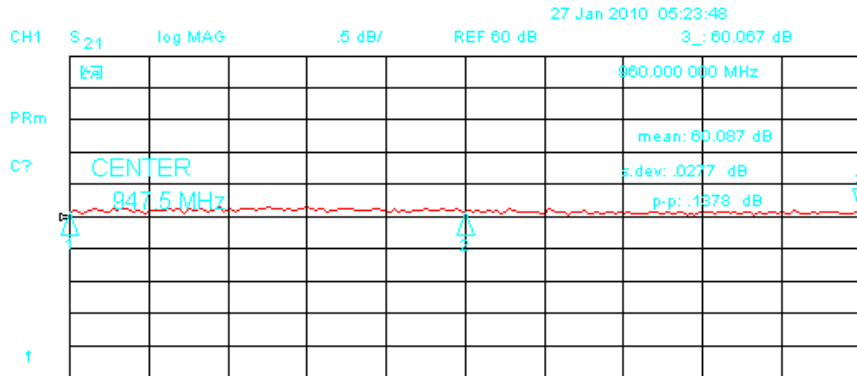
Pin Assignment

I/O Interface (D-Sub 15Pin Male)	1. Enable/Disable	Enable : TTL Low	
	2. Reverse Power Monitor	3.7V@+51dBm, 0.1V/dB	
	3. VSWR Alarm	TTL High@ Po=+30dBm open	
	4. Over Power Alarm	Alarm& Shutdown @Po=+52.5dBm±0.5dB	
	5. Over Temp. Alarm	Alarm& Shutdown +90°C ↑ Auto Recovery +70°C ↓	
	6. Power Monitor	3.7V@ Po=+51dBm, 0.1V/dB	
	7,11~13. N.C		
	8. Enable Status	Enable : TTL Low	
	9. Temp. Monitor	Vo=(T / 100)+500mV	
	10. Input Monitor	Range : 0~5Vdc	
	14. GND		
	15. Reset	Reset=High, Normal=Low	
	I/O Interface (3W3P Male)	A1. VCC	+28V
		A2. GND	
		A3. N.C	



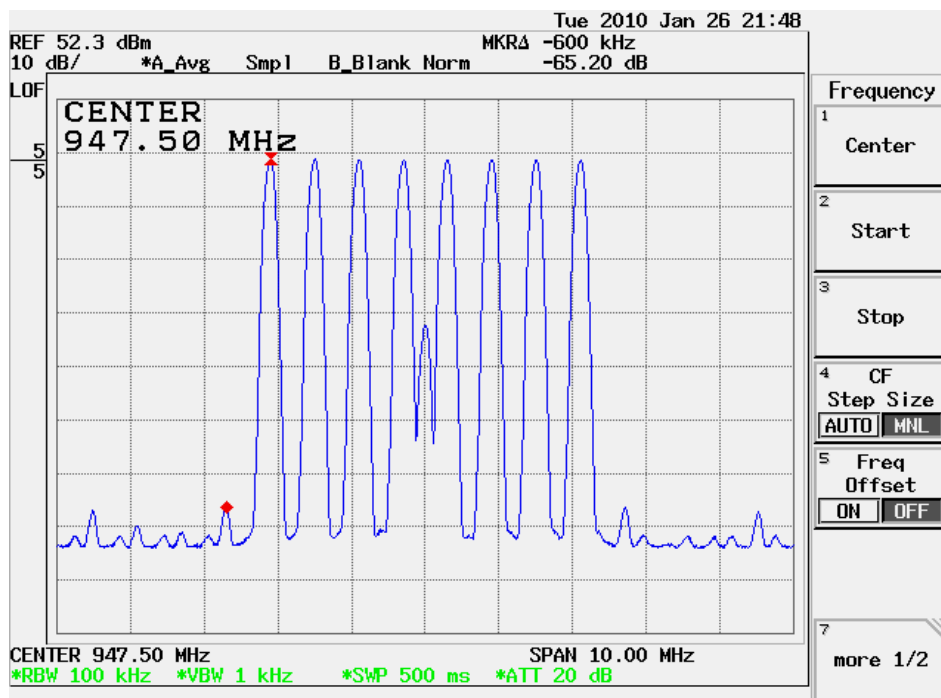
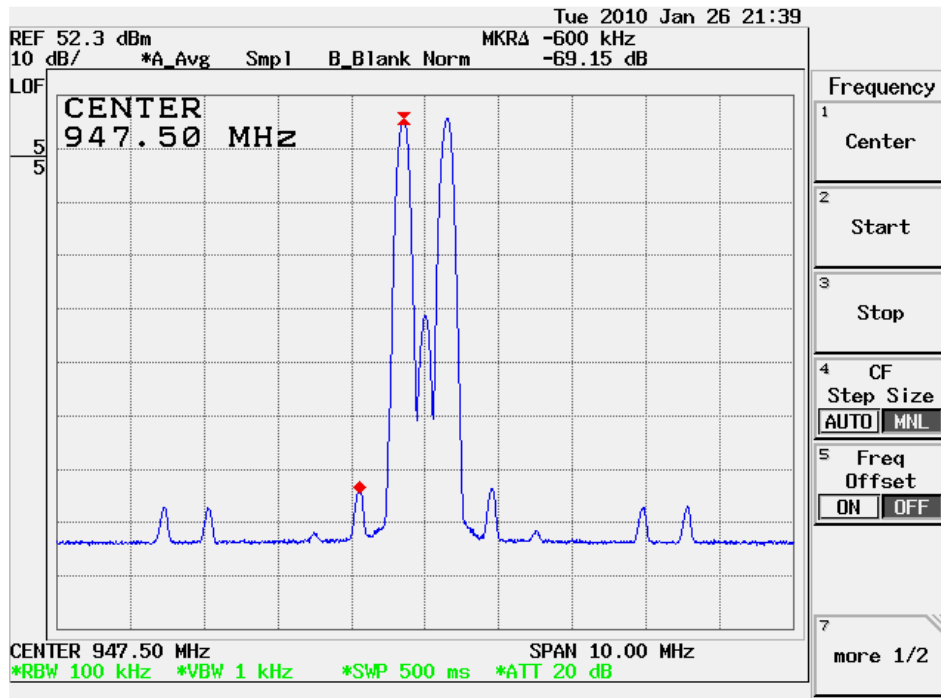
Electrical Test Data

Gain & In/Output VSWR





IMD @Po=+51dBm(CW2Tone/CW8Tone)



Current Consumption

+28V : 24.6A @Po=+51dBm



Outline Drawing

