

Product Features

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

Application

- WCDMA Repeater



WCDMA Multi Carrier RF Amplifier

Electrical Specification

Parameter	Specification	Remark
Frequency Range	2110MHz~2170MHz	60MHz BW
Output Power	+35dBm	
Gain	45dB±1dB	
Gain Flatness	1dB peak to peak	
Gain Variation Over Temp.	±1dB max.	
IMD	< -63dBc	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	3.5A max.	
Enable	TTL Low Active	
Output Detect	+4.0V @Po=+35dBm	0.1V/dB



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 : 125mm X 105mm X 25mm

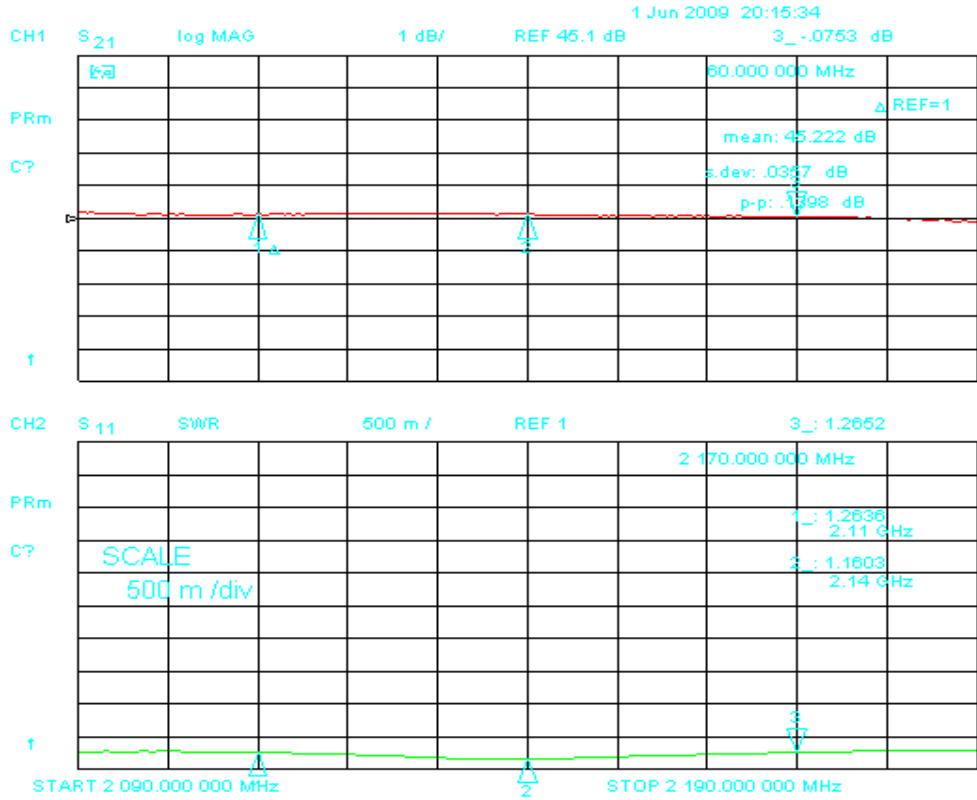
Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1. Enable/Disable	Enable : TTL Low
	2. Power Monitor	4.0V@+35dBm
	3. VSWR Alarm	@Po=25dBm open
	4. Over Temp. Alarm	Alarm +85°C ↑ Auto Recovery +65°C ↓
	5. Over Power Alarm	Po=+37dBm
	6,7. VCC	+27V
	8,9. GND	



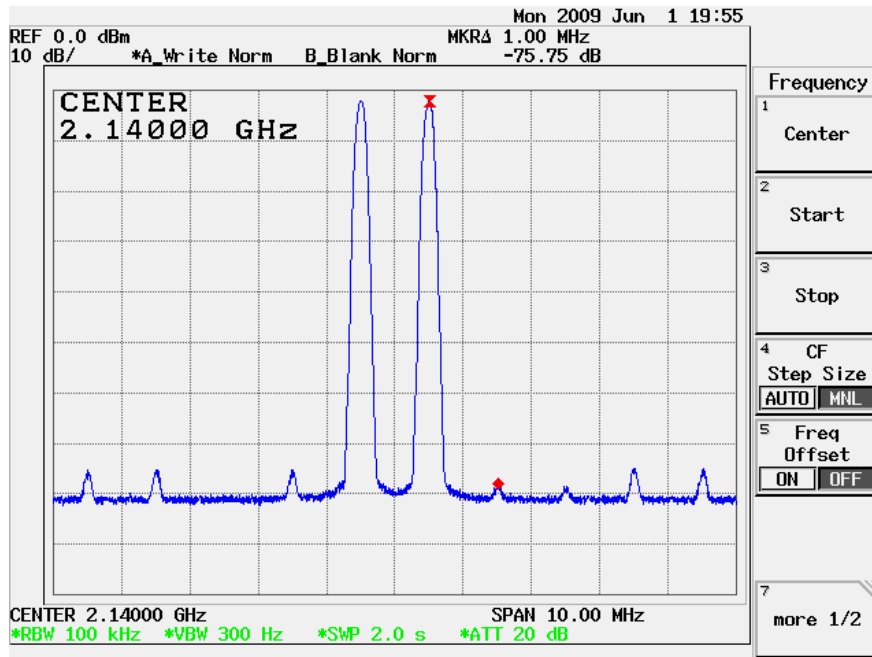
Electrical Test Data

Gain & Input VSWR

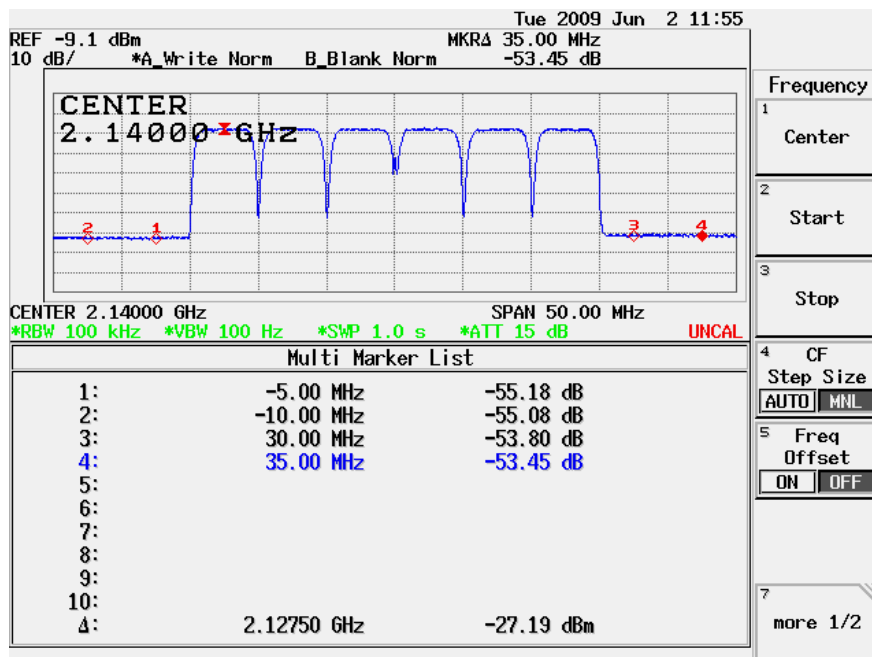




2 Tone IMD @Po=+35dBm



ACLR @Po=+33dBm(WCDMA 6FA)



Current Consumption

+27V : 2.36A @Po=+35dBm



Outline Drawing

