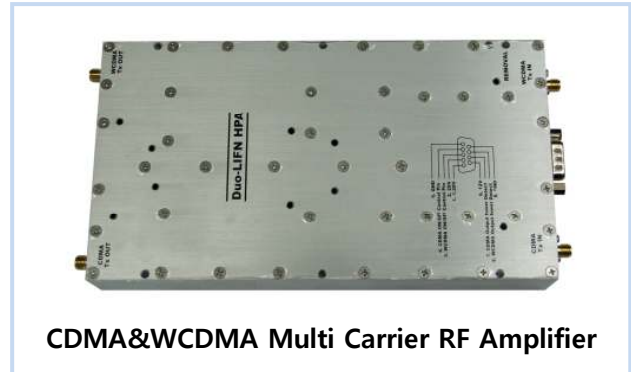


Product Features

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

Application

- CDMA & WCDMA Duo Repeater



CDMA&WCDMA Multi Carrier RF Amplifier

CDMA (2G) Electrical Specification

Parameter	Specification	Remark
Frequency Range	869MHz~894MHz	25MHz BW
Output Power	+28.5dBm	CDMA 20FA
Gain	40dB±1dB	
Gain Flatness	0.7dB peak to peak	
Gain Variation Over Temp.	±1dB max.	
Harmonic	-45dBc	
Spurious Emission (9CH, CDMA 20FA)	±750kHz < -35dBc ±1.98MHz < -45dBc	RBW 30kHz
Input VSWR	1.5:1 max.	
Output VSWR	1.5:1 max.	Isolator Applied
Normal Operating Voltage	+12V / +29V	
DC Current Consumption (2G+3G)	+12V 2.0A max. +29V 2.5A max	
Enable	TTL High Active	
Output Detect	+3.3V @Po=+28.5dBm	0.1V/dB



WCDMA (3G) Electrical Specification

Parameter	Specification	Remark
Frequency Range	2110MHz~2150MHz	40MHz BW
Output Power	+34.3dBm	WCDMA 6FA
Gain	40dB±1dB	
Gain Flatness	0.7dB peak to peak	
Gain Variation Over Temp.	±1dB max.	
Harmonic	-45dBc	
ACLR	±5MHz < -50dBc ±10MHz < -52dBc	RBW 30kHz
Input VSWR	1.5:1 max.	
Output VSWR	1.5:1 max.	Isolator Applied
Normal Operating Voltage	+12V / +29V	
DC Current Consumption (2G+3G)	+12V 2.0A max. +29V 2.5A max	
Enable	TTL High Active	
Output Detect	+4.0V @Po=+35dBm	0.1V/dB

Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-20°C~+65°C	
Storage Temperature	-40°C~+85°C	
Relative Humidity	0%~90%	Non-condensing

Mechanical Specification

Physical Dimension : 199.5mm X 110mm X 28mm



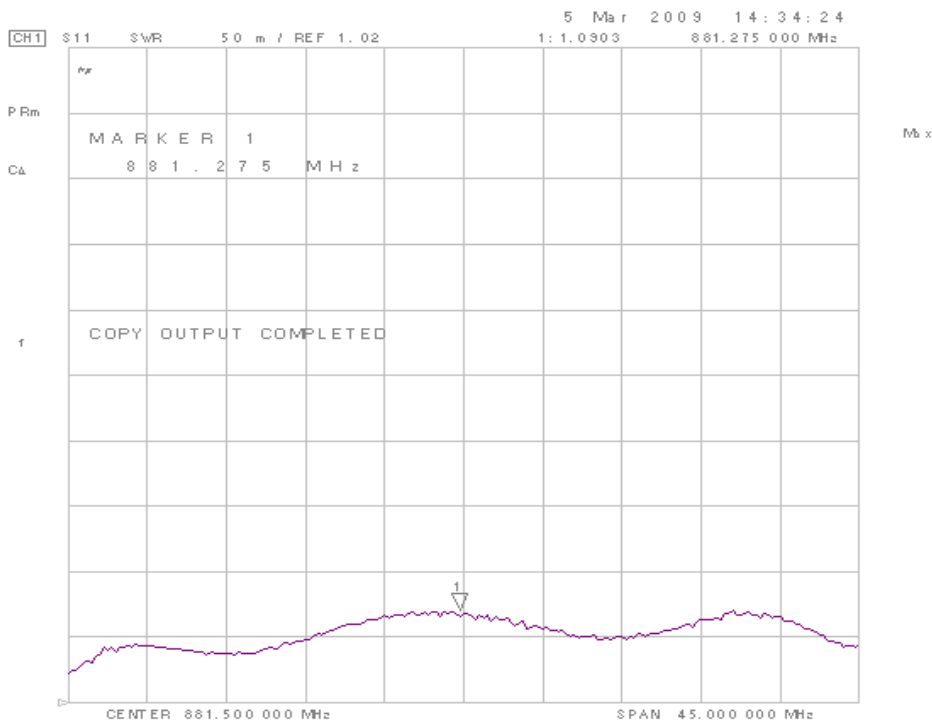
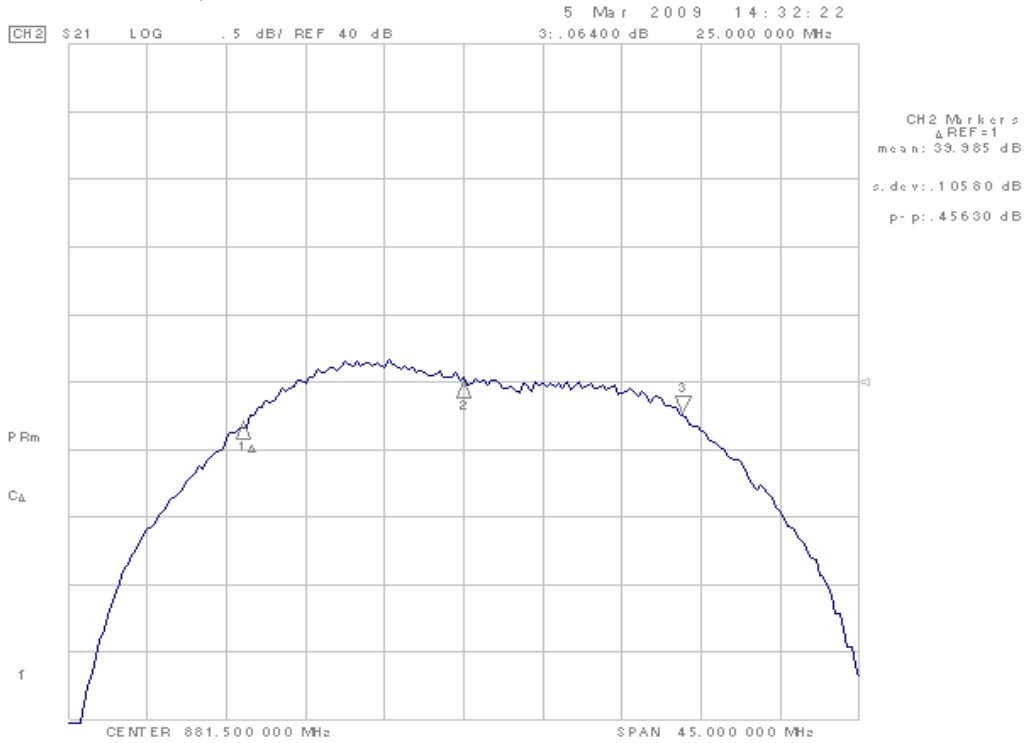
Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1,2.	+29V IN	
	3.	3G Enable/Disable	Enable=TTL High
	4.	2G Enable/Disable	Enable=TTL High
	5.	GND	
	6.	+12V IN	
	7.	2G Power Monitor	3.3V@Po=+28.5dBm, 0.1V/dB
	8.	3G Power Monitor	4.0V@Po=+35dBm, 0.1V/dB
	9.	GND	



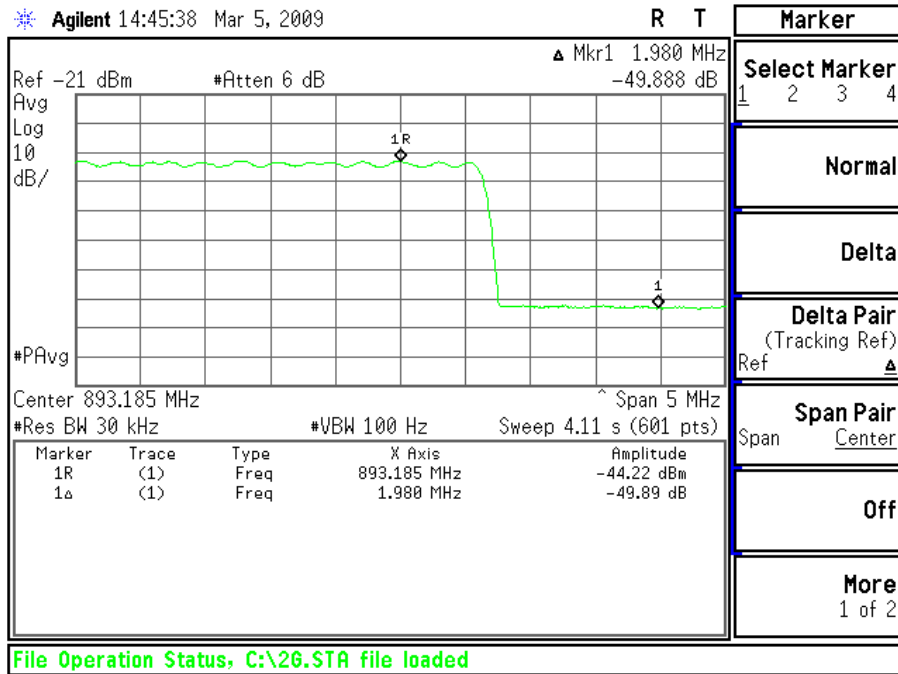
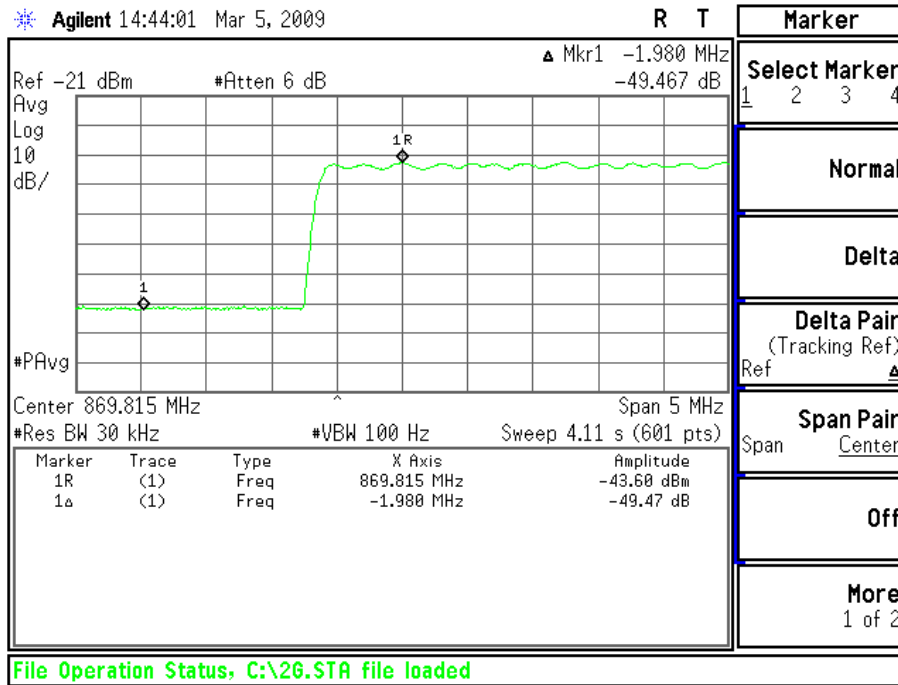
Electrical Test Data

2G Gain & Input VSWR



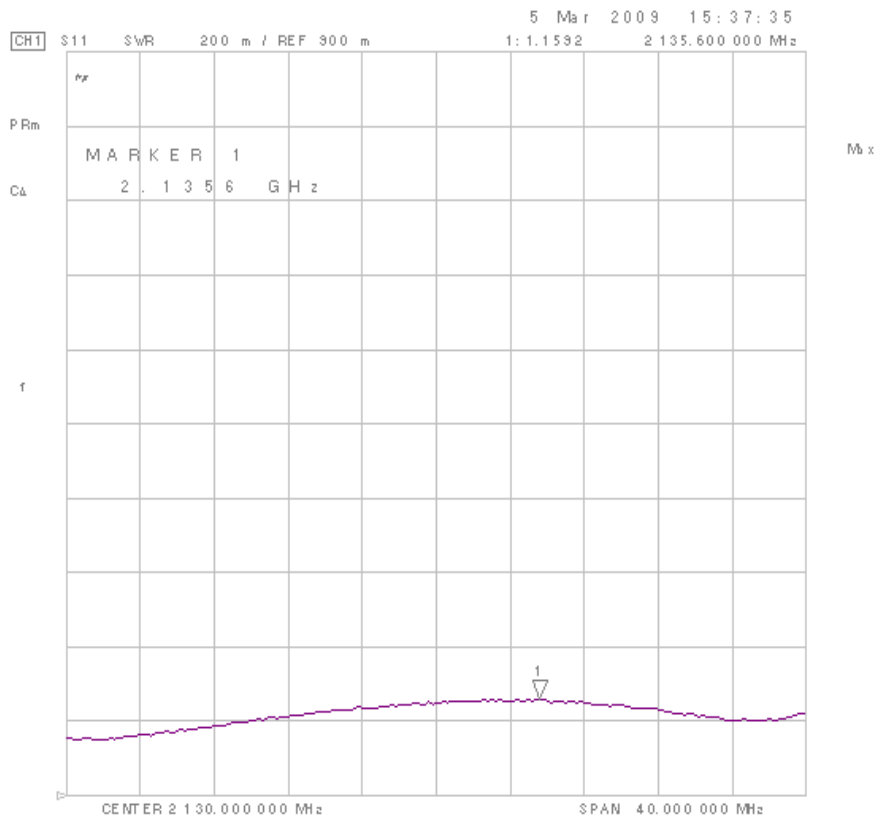
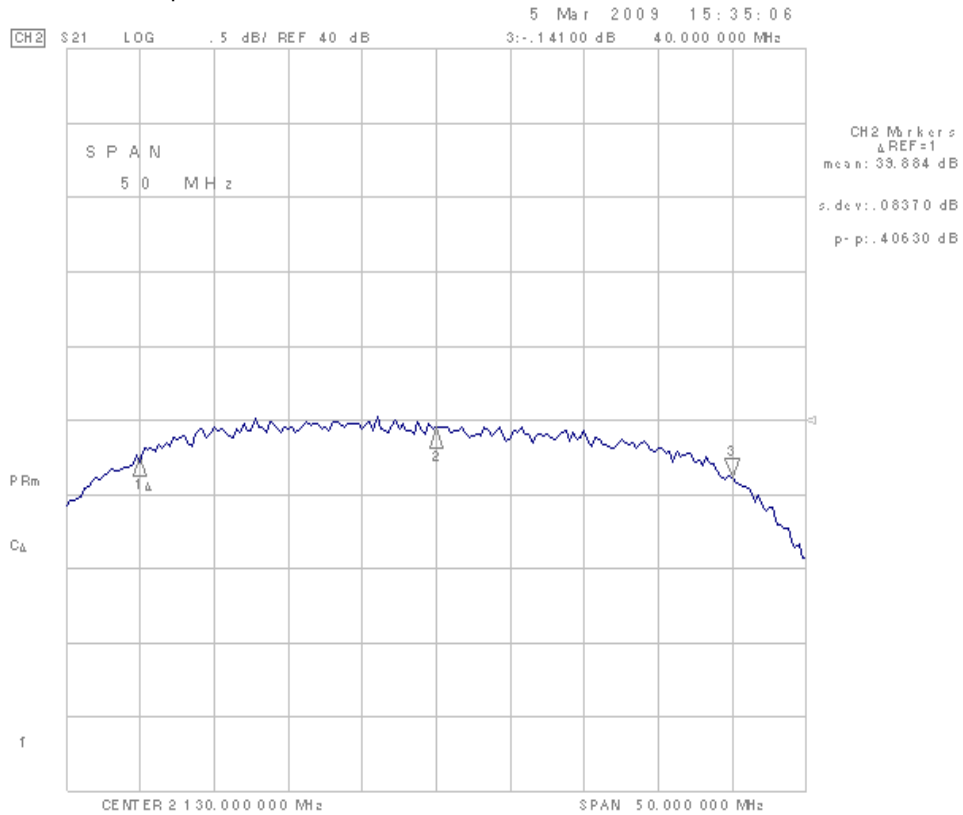


2G ACLR@ Po=+28.5dBm



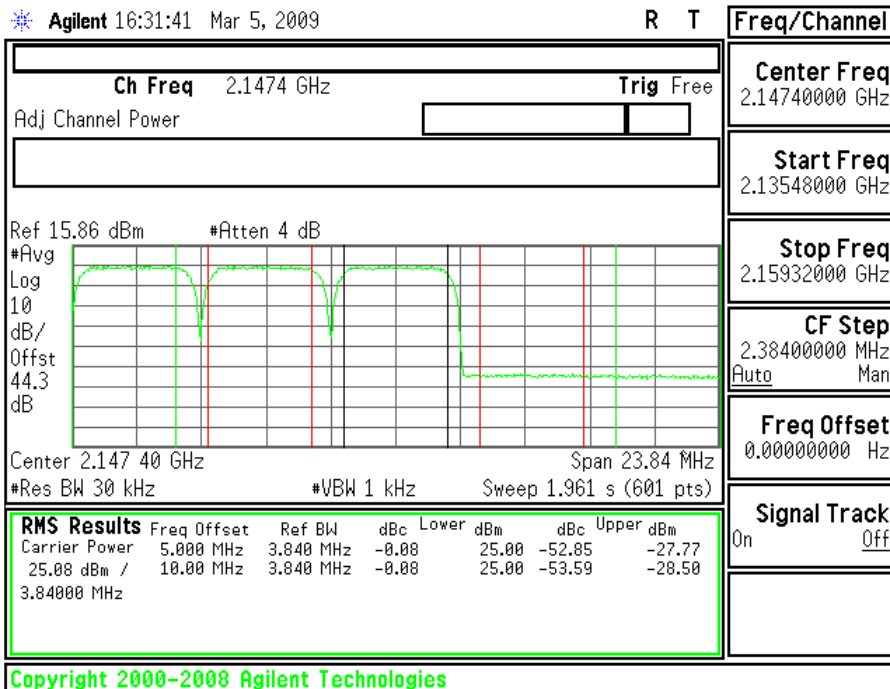
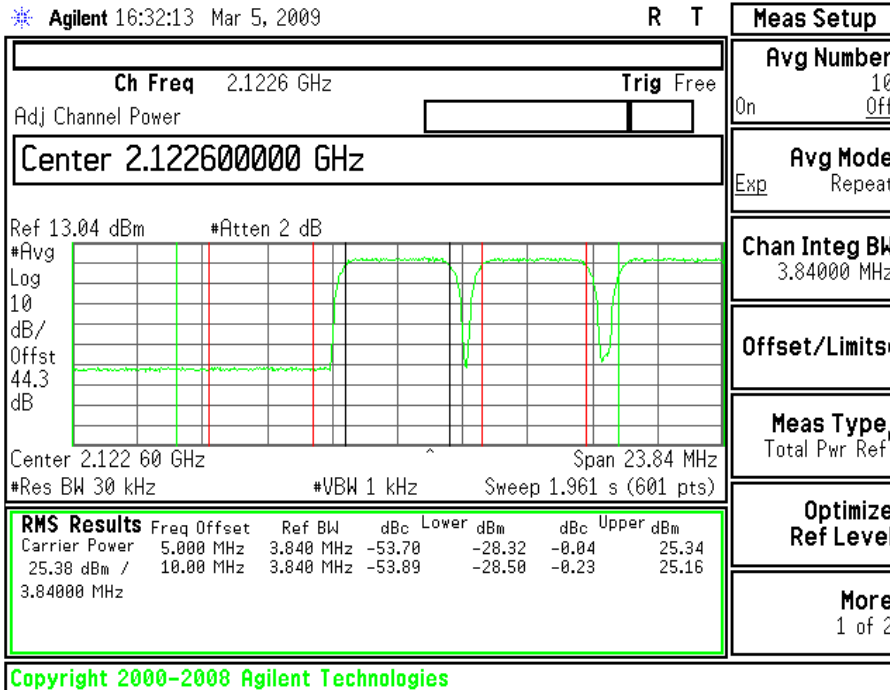


3G Gain & Input VSWR





3G ACLR@ Po=+34.3dBm





Outline Drawing

