

# CDMA Multi Carrier RF Amplifier

**HD29602**

**1805 – 1880 MHz / 3.5 Watts**

## Product Features

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

## Application

- DCS Repeater



## 1. Electrical Specification

Parameter	Specification	Remark
Frequency Range	1805MHz~1880MHz	75MHz BW
Output Power	3.5W	
Gain	41dB±1dB	
Gain Flatness	±0.5dB	
Gain Variation Over Temp.	±1dB max	-20°C ~+ 60°C
IMD	< -60dBc	CW 10 tone
Harmonic	-45dBc max	
Input VSWR	1.5:1 max.	
Output VSWR	1.5:1 max.	Isolator Applied
Normal Operating Voltage	+ 28V	
DC Current Consumption	2.0A max.	@3.5W
Output protection	Isolator	
Shut-down Temp Level	85±5°C	65±5°C Auto Enable

## 2. Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-20°C ~+ 60°C	
Storage Temperature	-40°C ~+ 85°C	
Relative Humidity	0%~90%	Non-condensing



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### 3. Mechanical Specification.

Physical Dimension : 130mm X 120mm X 25mm

### 4. Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1.	+ 28V_IN	
	2.	GND	
	3.	En/Disable Control	High & Open(Disable) Low (Enable)
	4.	VSWR Alarm	VSWR 5:1 (Over 25dBm)
	5.	FWD Power Monitor	33dBm = 4±0.1V (100mV/dB)
	6.	+ 28V_IN	
	7.	GND	
	8.	GND	
	9.	Over Temp Alarm	85±5°C Shutdown 65±5°C Auto Enable
DC INPUT Connector (D-Sub 9Pin Male)	1,6		+ 27V
	2,7,8		GND

# Over Power Shutdown = 37±1dBm

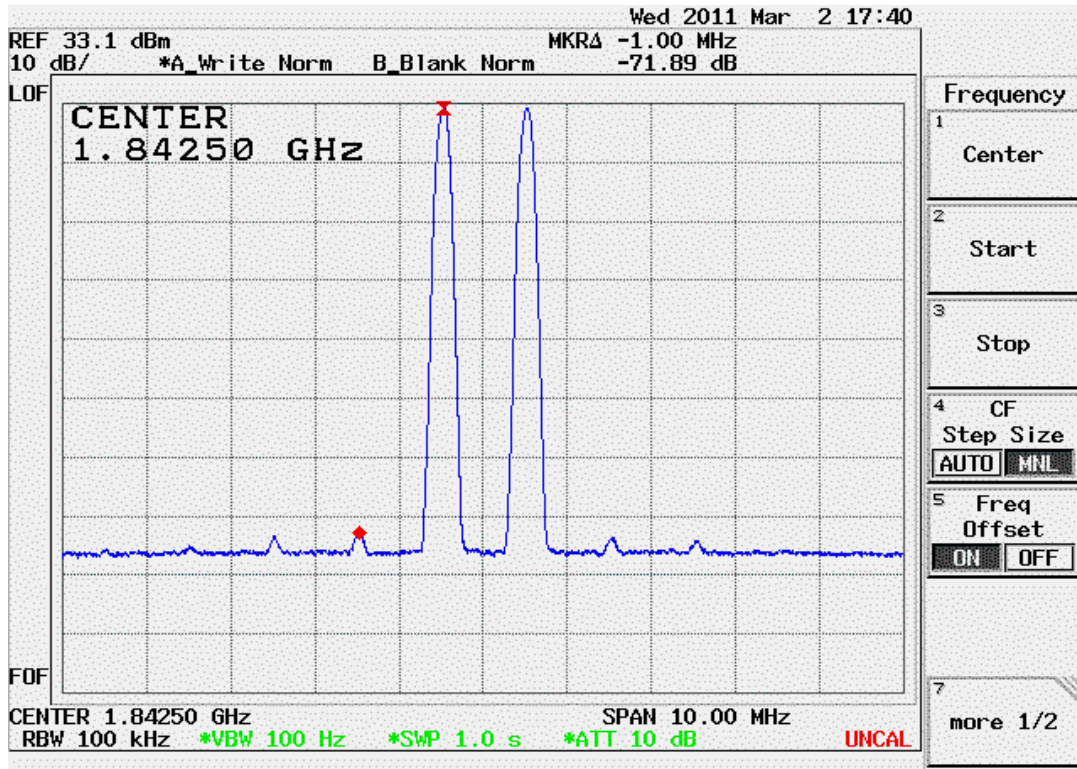
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## 5. Electrical Test Data

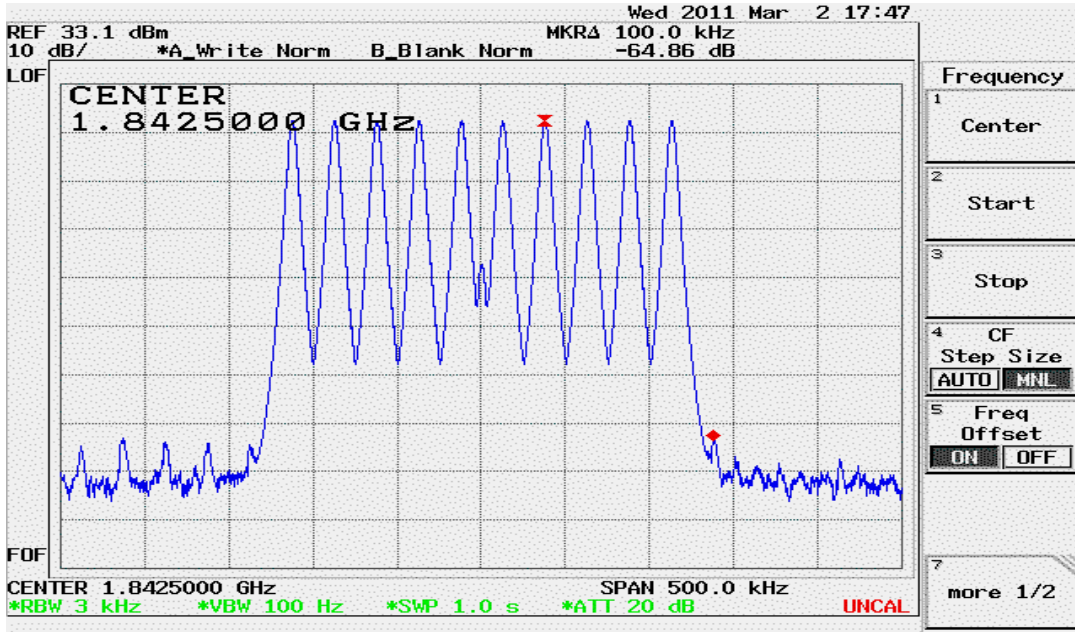
5.1 IMD @Po=+35.5dBm(CW 2/10 Tone) / DC 28V, 1.4A



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## 6. Outline Drawing

