

TETRA Multi Carrier RF Amplifier

HD29609

2110 – 2170 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

- WCDMA Repeater



1. Electrical Specification.

Parameter	Specification	Remark
Frequency Range	2110MHz~2170MHz	60MHz 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	

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Storage Temperature -40 °C ~+ 85 °C

Relative Humidity 0%~90% Non-condensing

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

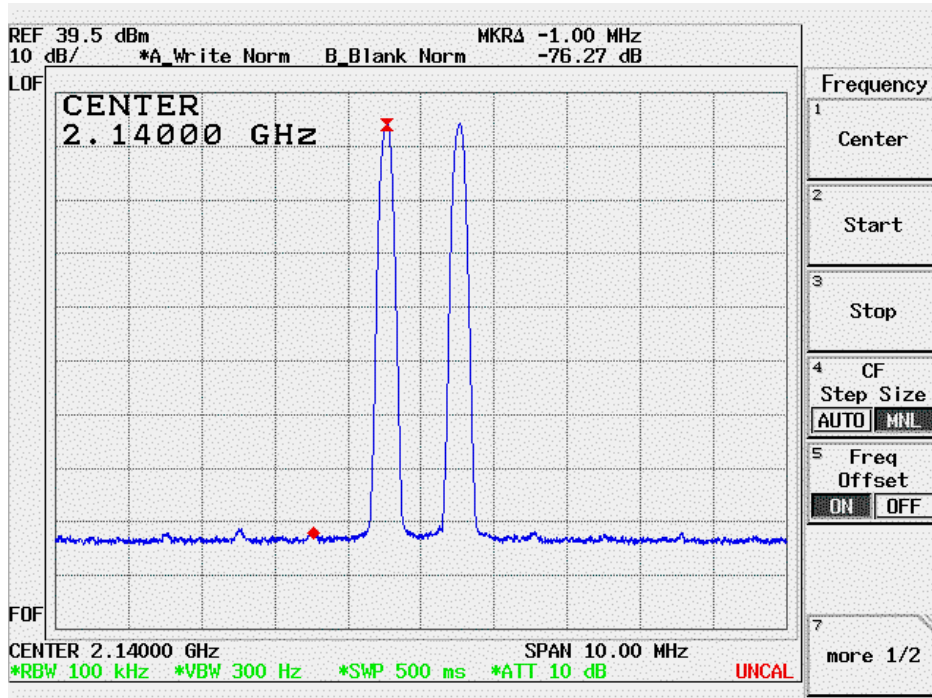
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5. Electrical Test Data

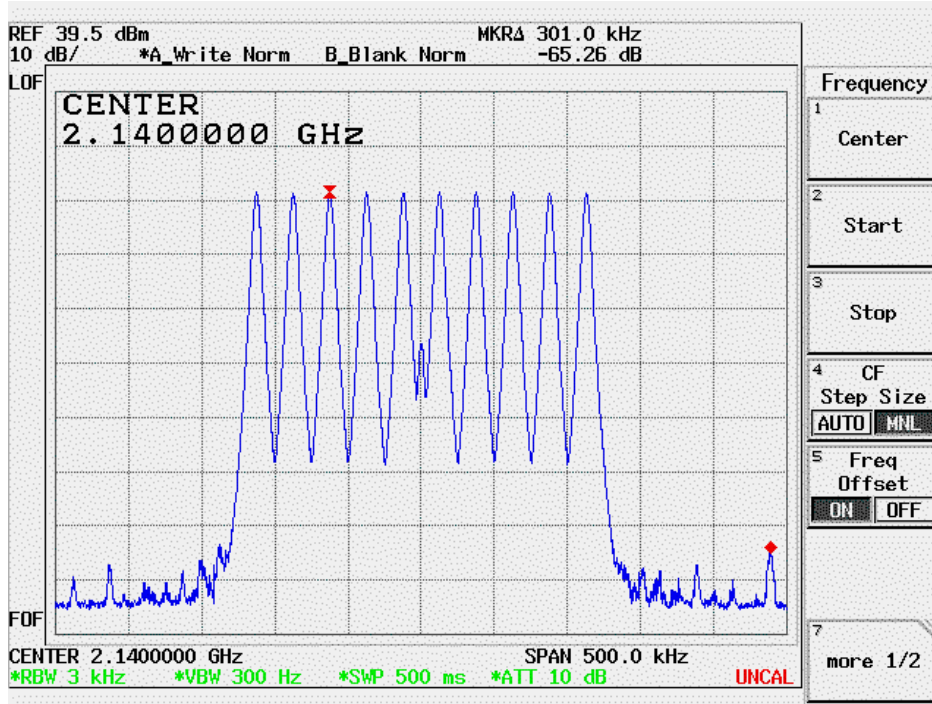
5.1 IMD @Po=+ 35.5dBm(CW 2/10 Tone) / DC 28V, 1.6A



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