

TRS Multi Carrier RF Amplifier

HD29612

806 – 821 MHz / 5 Watts

Product Features

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

Application

- TRS Repeater

1. Electrical Specification.



Parameter	Specification	Remark
Frequency Range	806MHz~821MHz	15MHz BW
Output Power	5W	ALC 38dBm : Min 10dB
Gain	52dB±1dB	
Gain Flatness	±0.5dB	
Gain Variation Over Temp.	±1dB max	-20 °C~+60 °C
IMD	< -60dBc	CW 8 tone, Ch Sp. : 25kHz
Harmonic	-45dBc max	
Input VSWR	1.5:1 max.	
Output VSWR	1.5:1 max.	Isolator Applied
Normal Operating Voltage	+27V	
DC Current Consumption	2.0A max.	@5W
Output protection	Isolator	
Shut-down Temp Level	90±5 °C	70±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

3. Mechanical Specification.

Physical Dimension : 120mm X 150mm X 28mm

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4. Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1.	+27V_IN	
	2.	+27V_IN	
	3.	En/Disable Control	High (Disable) Open & Low (Enable)
	4.	GND_IN	
	5.	GND_IN	
	6.	Over Power Alarm	39dBm±1dB
	7.	VSWR Alarm	30dBm(Output Open)
	8.	High Temp. Alarm	High (shut-down) Low (Normal) Alarm & Shutdown +90°↑ Auto Recovery +70°↓
	9.	FWD Power Monitor	4V / 37dBm
DC INPUT Connector (D-Sub 9Pin Male)	1,2		+27V
	4,5		GND

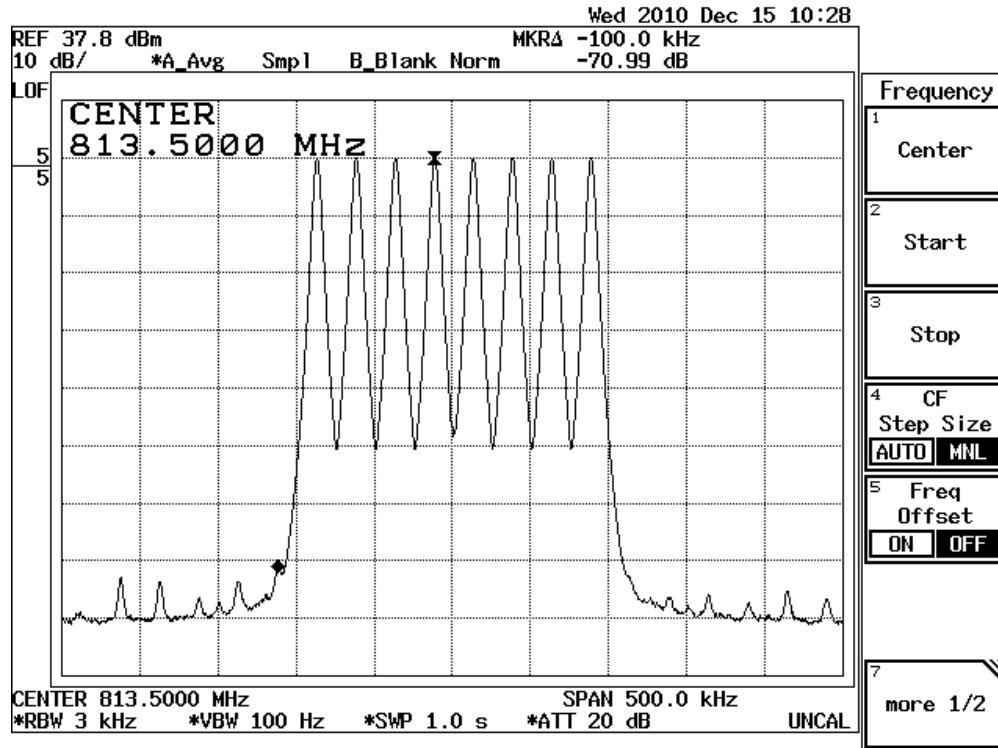
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5. Electrical Test Data

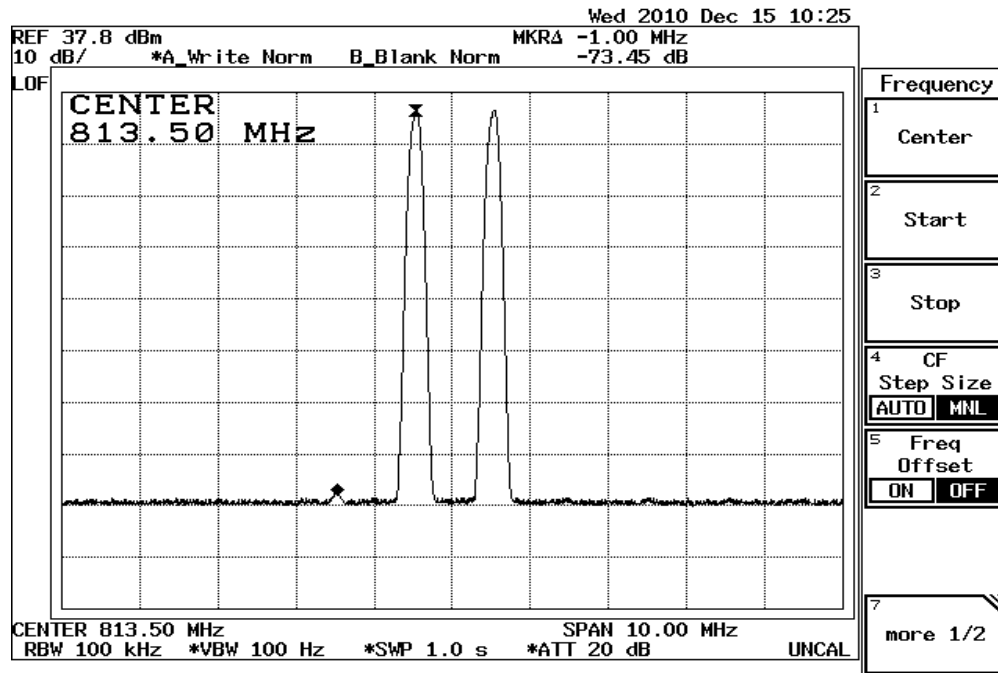
IMD @Po=+37dBm(CW 8 Tone / CW 2 Tone) / DC 27V, 1.6A



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6. Outline Drawing

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