

Product Features

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

Application

- TRS Repeater



TRS Multi Carrier RF Amplifier

Electrical Specification

Parameter	Specification	Remark
Frequency Range	412MHz~414MHz	2MHz BW
Output Power	+35dBm(avg)	+32dBm/Tone
Gain	40dB±1dB	
Gain Flatness	0.5dB peak to peak	
Gain Variation Over Temp.	±1dB max	
IMD	> 60dBc	@2 Tone +32dBm each
Input VSWR	1.4:1 max.	
Output VSWR	1.4:1 max.	Isolator Applied
Normal Operating Voltage	+27V±0.5V	
DC Current Consumption	2.0A max.	
Enable	TTL Low Active	
Output Detect	+4.0V @Po=+35dBm	0.1V/dB±0.5dB

Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-20°C~+60°C	
Storage Temperature	-30°C~+70°C	
Relative Humidity	5%~95%	Non-condensing



Mechanical Specification

Physical Dimension : 140mm X 120mm X 25mm

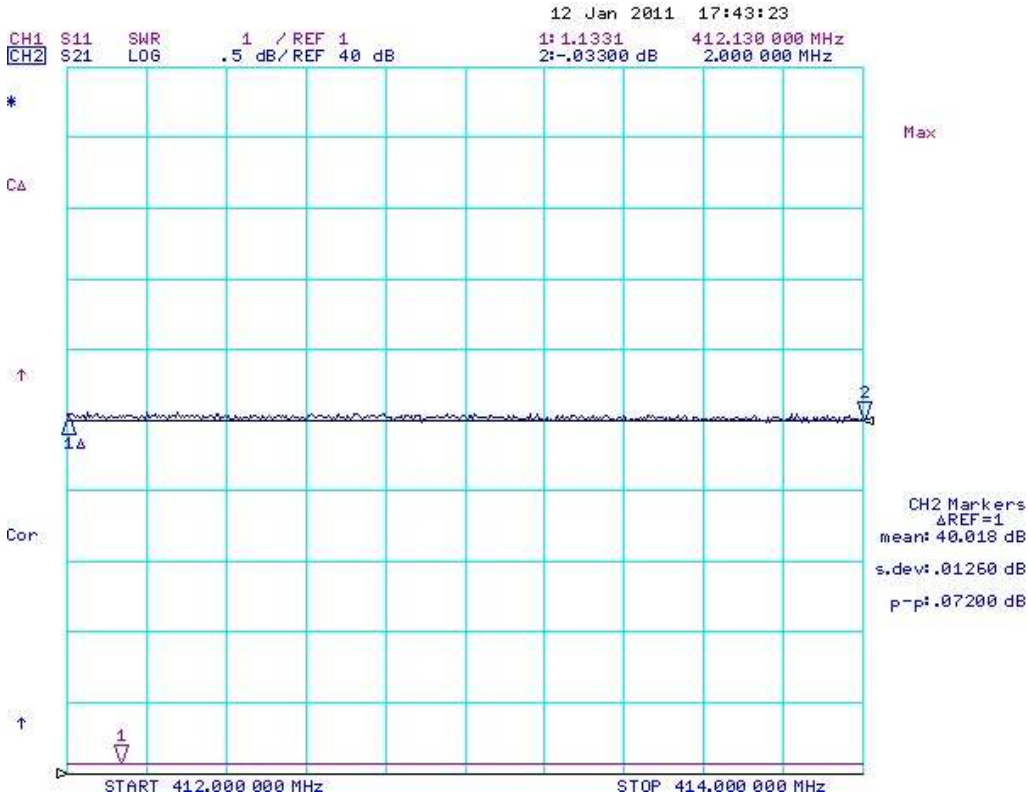
Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1.	GND	
	2.	Over Power Alarm	TTL High@Po=+39dBm±1dB
	3.	VSWR Alarm	TTL High@Over 6dB±1dB Po=+20dBm ↑
	4.	Over Temp. Alarm	Alarm&Shut Down@+85°C ↑ Auto Recovery@+70°C ↓
	5.	N.C	
	6.	Enable	Enable Low,Disable High or Open
	7.	Temp. Monitor	1.6V@+30°C, 0.2V/10°C
	8.	FWD. Power Monitor	4.0V±0.05V@+35dBm, 0.1V/dB
	9.	RVS. Power Monitor	4.0V±0.05V@+35dBm, 0.1V/dB
I/O Interface (3W3P Male)	A1.	VCC	+27V
	A2.	GND	
	A3.	N.C	

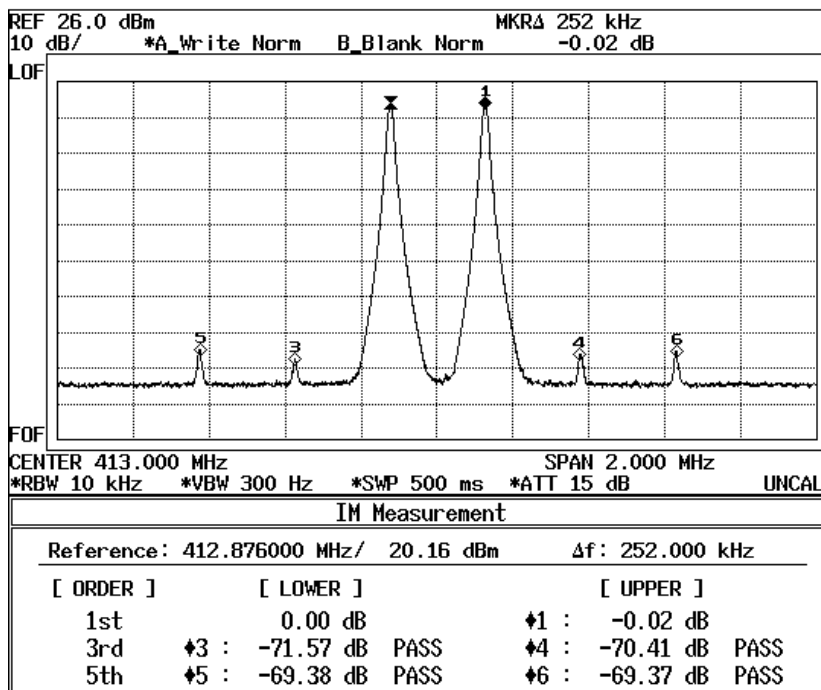


Electrical Test Data

Gain Flatness



IMD @Po=3W(CW 2 Tone)



Current Consumption

1.3A@Po=3W, +27V



Outline Drawing

