

Product Features

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

Application

- FM Repeater and system
- FM Re-broadcasting amplifier
- Tunnel & under ground repeater system



FM Multi carrier RF amplifier

Electrical Specification

Parameter	Specification	Remark
Frequency Range	88MHz~108MHz	20MHz BW
Output Power	+31dBm	CW 40 Tone, +15dBm/Tone
Gain	47dB±1dB	
Gain Flatness	1dB peak to peak	
Gain Variation Over Temp.	±1dB max.	
Harmonic	-45dBc	
Spurious Emission (CW 40 Tone)	< -40dBc@+31dBm < -30dBc@+37dBm	
Input VSWR	1.5:1 max.	
Normal Operating Voltage	+27V	
DC Current Consumption	1.4A Typical@2W	
Enable	TTL Low Active	
Output Detect	+4.0V @Po=+33dBm	0.1V/dB
Coupling Value (CPL Port)	40dB±1dB	



Environmental Specification

Parameter	Specification	Remark
Operating Temperature	-10°C~+60°C	
Storage Temperature	-20°C~+70°C	
Relative Humidity	0%~90%	Non-condensing

Mechanical Specification

Physical Dimension : 162.5mm X 73mm X 29mm

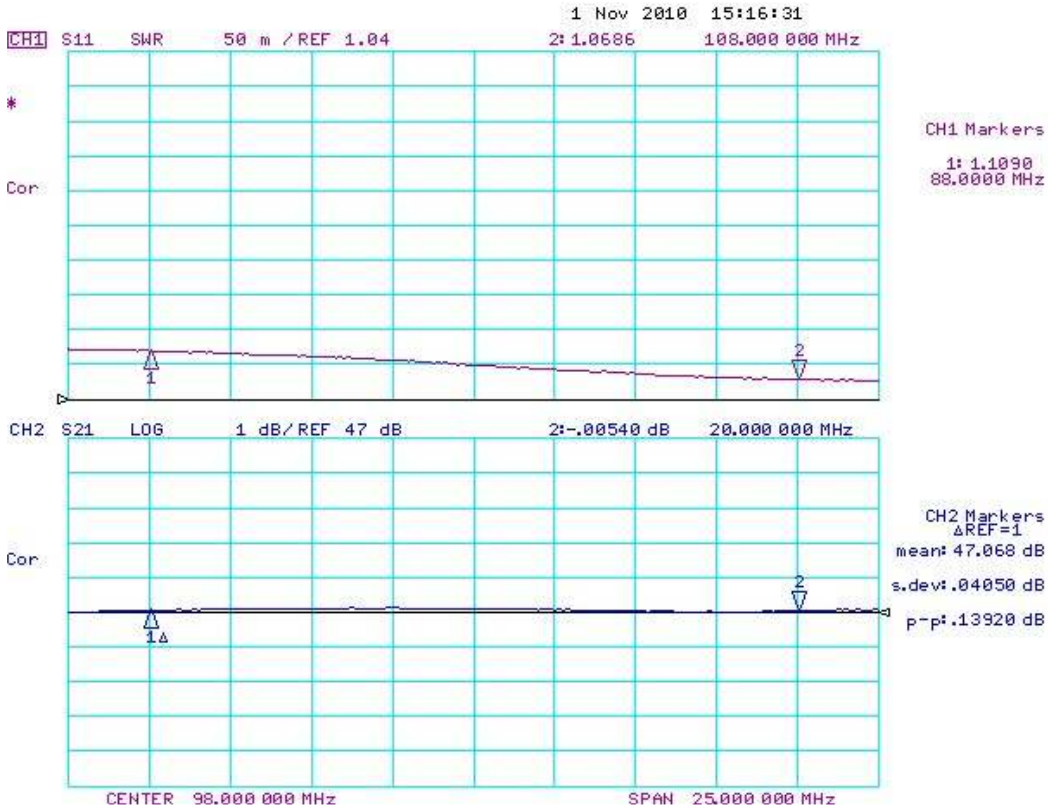
Pin Assignment

I/O Interface (D-Sub 9Pin Male)	1. Over Power Alarm	TTL High@ Po=+35dBm
	2. Temp. Monitor	0.75V±50mV@25°C, 10mV/1°C
	3. RVS Power Monitor	4.0V@Po=+33dBm, 0.1V/dB
	4. FWD Power Monitor	4.0V@Po=+33dBm, 0.1V/dB
	5. Enable	Enable=TTL Low
	6,7 VCC	+27V
	8,9 GND	

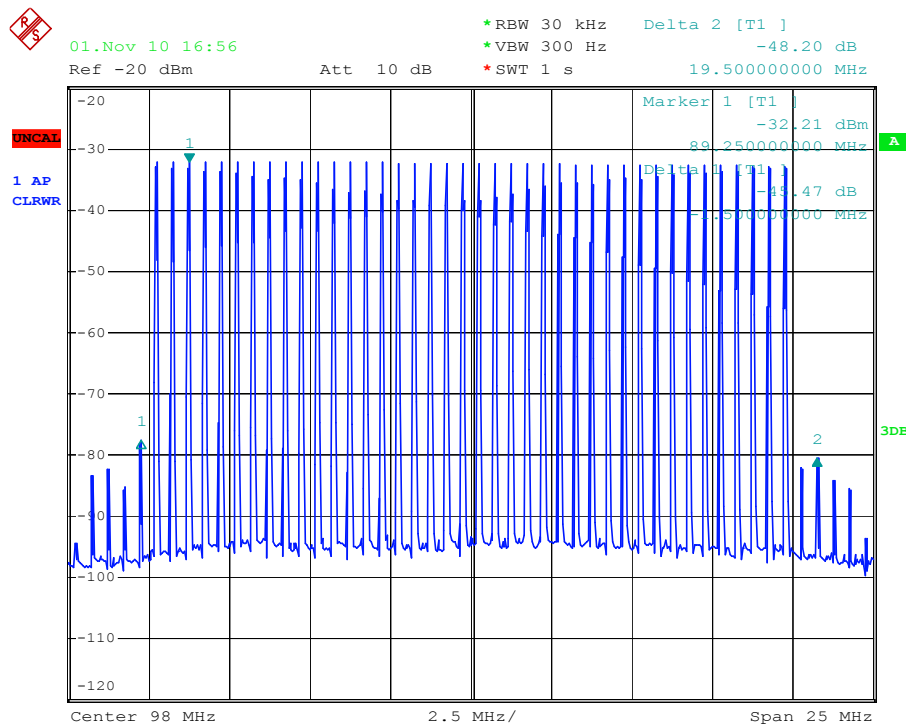


Electrical Test Data

Gain & Input VSWR



IMD @Po=+31dBm





Outline Drawing

