

## Product Features

- FM MCPA[Multi carrier RF amplifier]  
**VHF RF Amplifier**
- Solid State power amplifier
- High linearity and high OIP3
- Alarm & Control

## Application

- FM Repeater(Re Broadcasting) & Booster



FM Multi Carrier RF Amplifier

## 1. Electrical Specification.

Parameter	Specification	Remark
Frequency Range	88(134)MHz~108(176)MHz	20(40)MHz BW
Output Power	10W(5W)	CW 20(2) tone (Tone: 500kHz)
Gain	50(45)dB±1dB	
Gain Flatness	±1dB	
Gain Variation Over Temp.	±1dB max.	0°C~+60°C
IMD	-45(53@31dBm/tone)dBc min.	CW 20(2) tone (Tone: 500kHz)
ALC	42(40)dBm±1dB	Over 5dB
Input VSWR	1.5:1 max.	
Output Coupling	50dB±1dB	
Normal Operating Voltage	+27(22~29)Vdc	
DC Current Consumption	3.5(4.0)A Max.	@10W
Output protection	Over Power & VSWR	
Shut-down Temp Level	90±5°C	70±5°C Auto Enable

## 2. Environmental Specification

Parameter	Specification	Remark
Operating Temperature	0°C~+60°C	
Storage Temperature	-20°C~+70°C	



<b>Relative Humidity</b>	0%~90%	Non-condensing
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### 3. Mechanical Specification.

Physical Dimension : 160mm X 90mm X 25mm

### 4. Pin Assignment

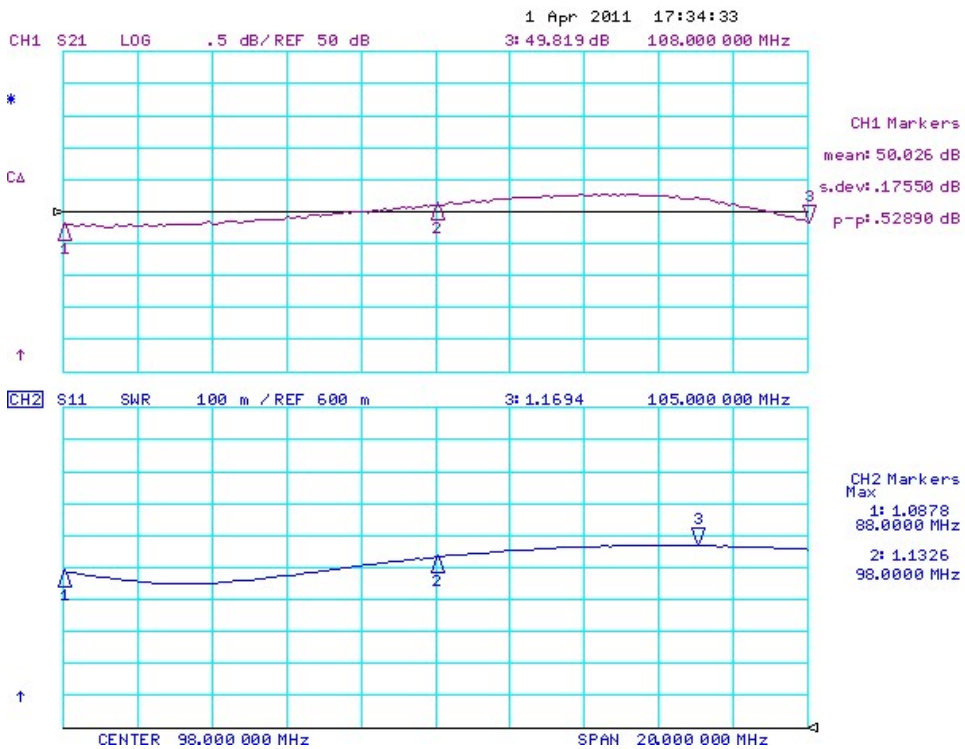
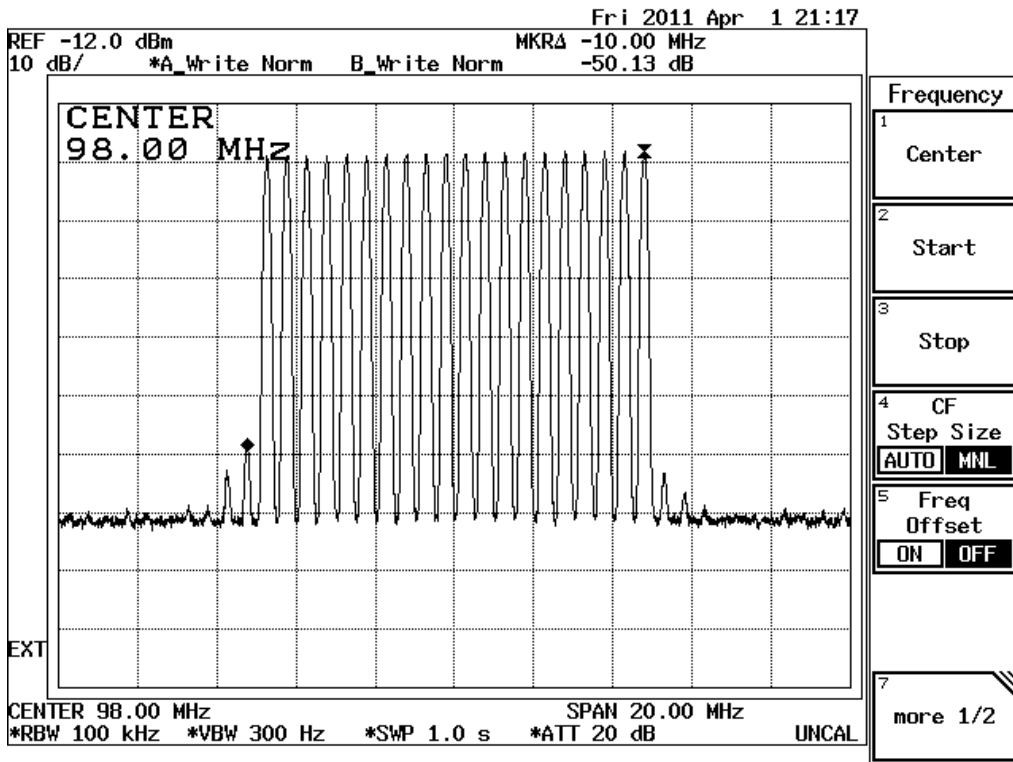
I/O Interface (D-Sub "9" Pin Male)	1. Over Power Alarm	TTL High @ 43dBm±1dB Shut-Down
	2. Temp Monitor	1V±50mV@50°C, 10mV/°C
	3. VSWR Alarm	Over 30dBm±1dB Output Open Shut-Down @ Center Frequency
	4. FWD Power Monitor	4±0.1V (100mV/dB) @ 40dBm
	5. En/Disable Control	High & Open(Disable) Low (Enable)
	6. +27V_IN	
	7. +27V_IN	
	8. GND	
	9. GND	

# Signal Source: SMJ100A (ROHDE & SCHWARZ)



## 5. Electrical Test Data

5.1 IMD @Po=+40dBm(CW 20 Tone 500kHz) / DC 27V, 3.0A





## 6. Outline Drawing

