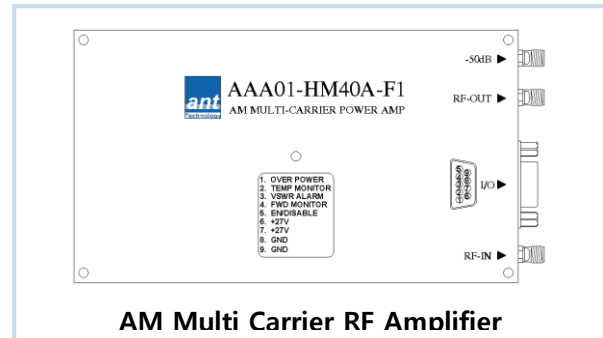


Product Features

- AM Multi carrier RF power amplifier
- Solid State power amplifier
- High linearity and high OIP3
- Alarm & Monitoring

Application

- AM Repeater, Tunnel & Under Ground
AM Re-Broadcasting



AM Multi Carrier RF Amplifier

1. Electrical Specification.

| Parameter | Specification | Remark |
|---------------------------|-------------------|---------------------------|
| Frequency Range | 500kHz~1.7MHz | 1.2MHz BW |
| Output Power | 10W | CW 10 tone (Tone: 100kHz) |
| Gain | 50dB±1dB | |
| Gain Flatness | ±1dB | |
| Gain Variation Over Temp. | ±1dB max. | 0°C~+60°C |
| IMD | -27dBc min. | CW 10 tone (Tone: 100kHz) |
| Input VSWR | 1.5:1 max. | |
| Output Coupling | 50dB±1dB | |
| Normal Operating Voltage | +27V | |
| DC Current Consumption | 3.5A 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 | |
| Relative Humidity | 0%~90% | Non-condensing |



3. Mechanical Specification.

Physical Dimension : 160mm X 90mm X 25mm

4. Pin Assignment

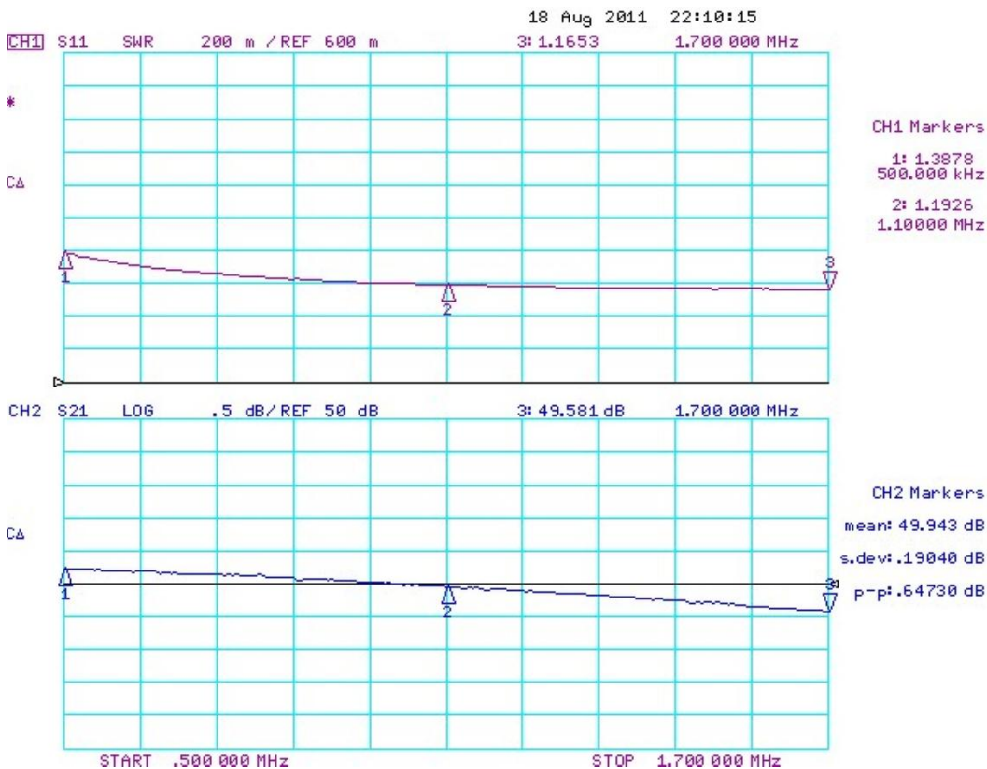
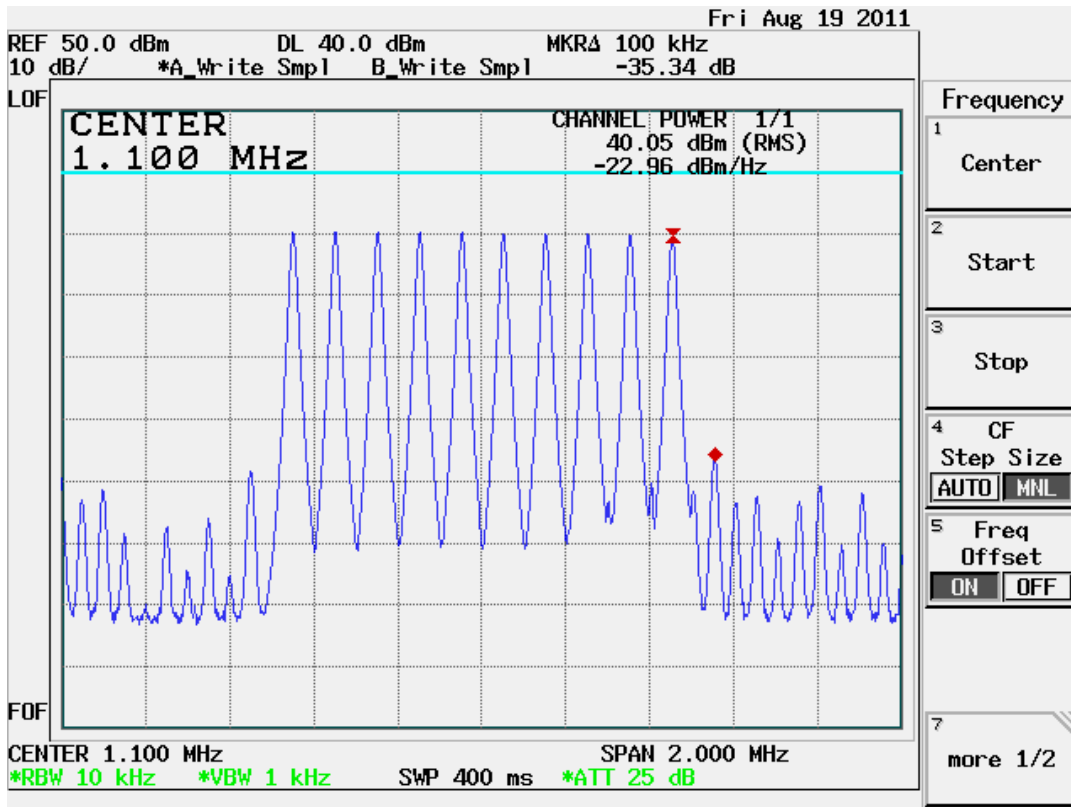
| | | |
|------------------------------------|-----------------------|---------------------------------------------------------------|
| I/O Interface (D-Sub 9Pin Male) | 1. Over Power Alarm | TTL High @ 42dBm±1dB Shut-Down |
| | 2. Temp Monitor | 1V±50mV@50°C, 10mV/°C |
| | 3. VSWR Alarm | Over 35dBm±1dB 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 10Tone / 100kHz Spacing) / DC 27V, 2.8A (AM Amplifier)





6. Outline Drawing

