## Product Features

- MCPA Design for PGSM900 Multi Carrier RF Amplifier
- Excellent Suppression IMD
- High linearity and high efficiency
- Suitable for Analog & Digital Modulation
- Feed - Forward Technology Amplifier[FFTA]

## Application

- PGSM900 Repeater, Booster, BDA, TMB, TMA


## 1. Electrical Specification.

| Parameter | Specification | Remark |
|---|---|---|
| **Frequency Range** | 935MHz~960MHz | 25MHz BW |
| **Output Power** | 20W | ALC 25W : Min 10dB attenuation |
| **Gain** | 54dB±1dB | |
| **Gain Flatness** | ±0.5dB | |
| **Gain Variation Over Temp.** | ±1dB max | -20℃~+60℃ |
| **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** | 5.5A max. | @ 20W |
| **Output protection** | Isolator | |
| **Shut-down Temp Level** | 90±5℃ | 70±5℃ Auto Enable |

## 2. Environmental Specification

| Parameter | Specification | Remark |
|---|---|---|
| **Operating Temperature** | -20℃~+60℃ | |
| **Storage Temperature** | -40℃~+85℃ | |
| **Relative Humidity** | 0%~90% | Non-condensing |

## 3. Mechanical Specification.

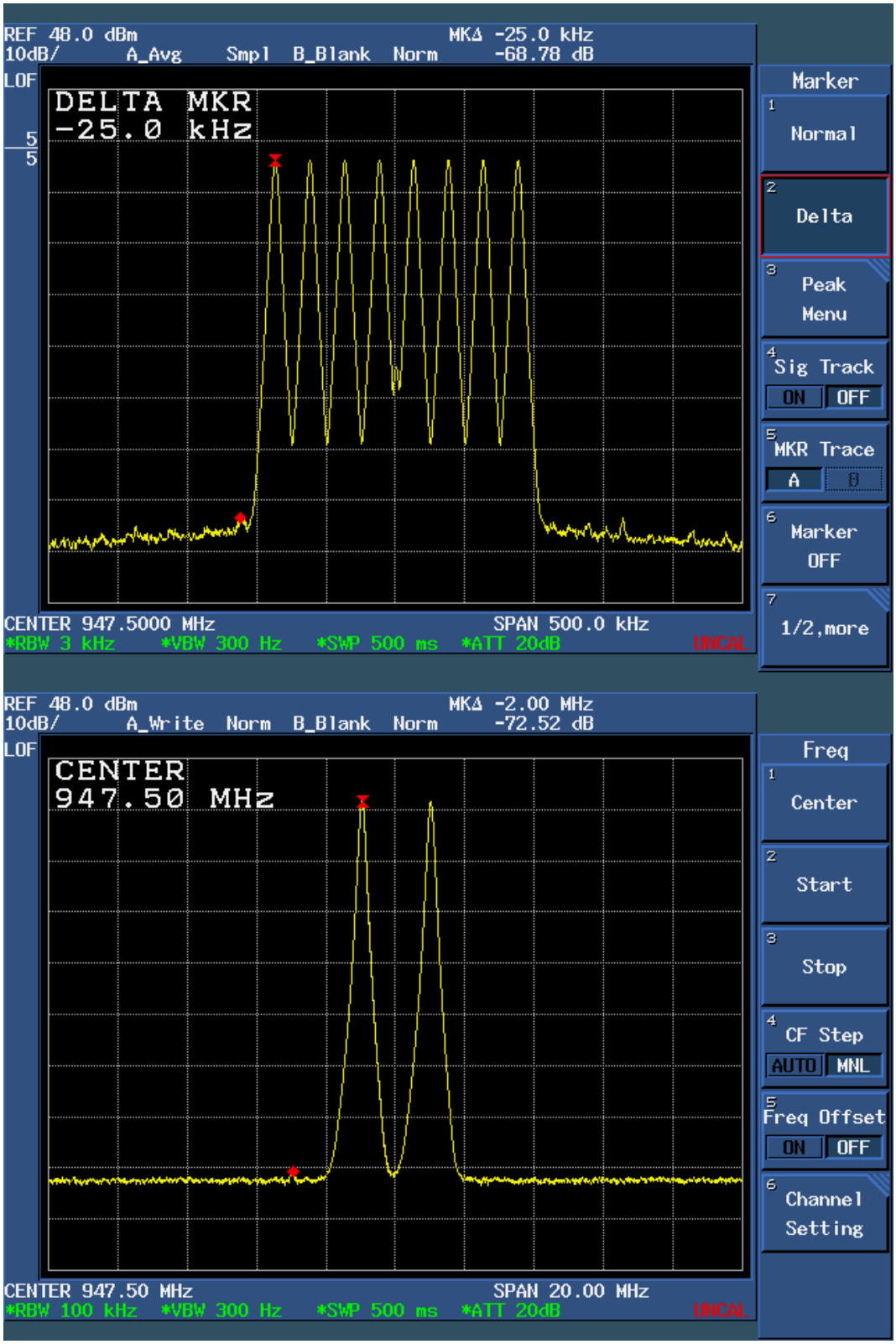
Physical Dimension : 150mm X 185mm X 28mm

## 4. Pin Assignment

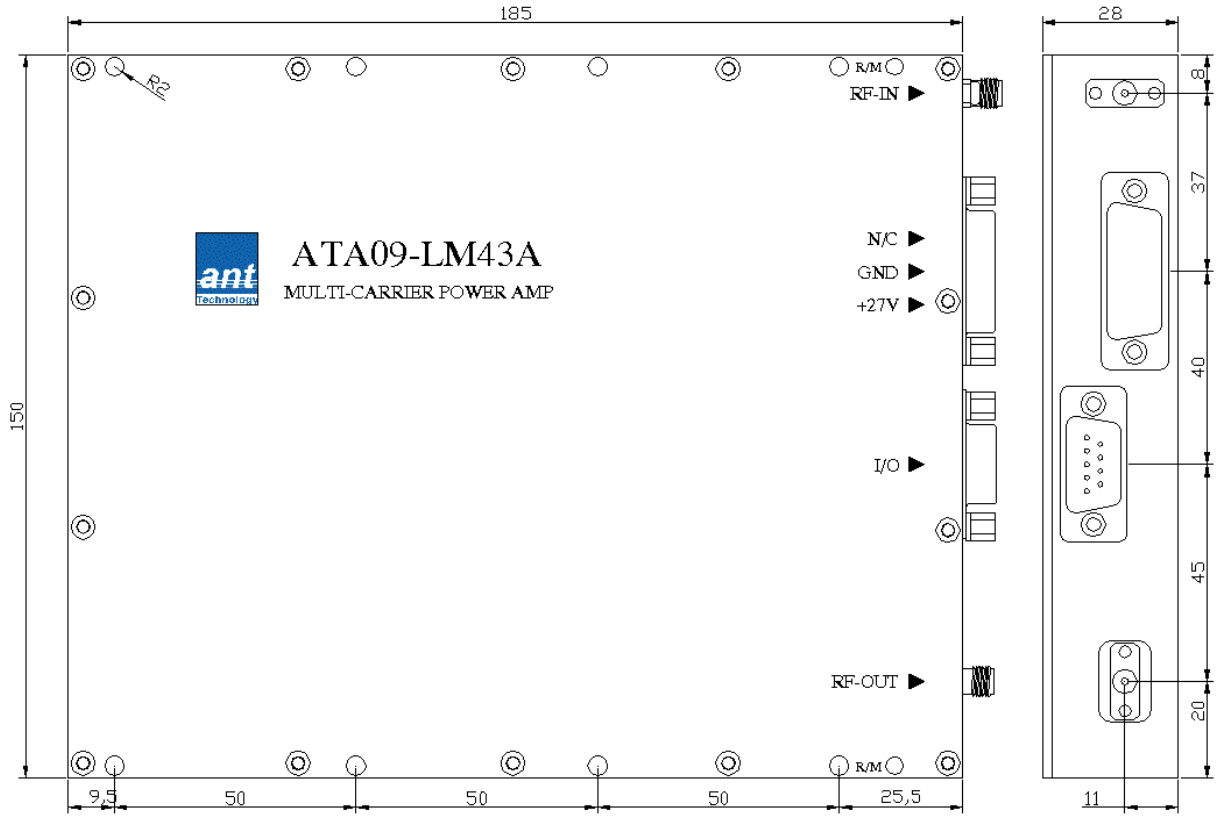
| | | |
|---|---|---|
| I/O Interface<br>(D-Sub 9Pin Male) | 1. Over Power Alarm | Po=+45dBm±1dB<br>Shutdown High |
| | 2. High Temp. Alarm | High (shut-down)<br>Low (Normal)<br>Alarm & Shutdown +90℃↑<br>Auto Recovery +70℃↓ |
| | 3. VSWR Alarm | High (Alarm)<br>Low (Normal)<br>30dBm(Output Open) |
| | 4. Temp. Monitor | Vo=(T / 100)+500mV |
| | 5. LPA Status | High (Inactive), Low (Active) |
| | 6. Loop Fail Alarm | High (shut-down)<br>Low (Normal) |
| | 7. FWD Power Monitor | 4.0V@Po=+43dBm, 0.1V/dB |
| | 8. Enable/Disable | High (Disable)<br>Open & Low (Enable) |
| | 9. GND | |
| | DC Fail Alarm | 19V ~ 31V : Shut down<br>21V ~ 29V : Auto Recovery |
| I/O Interface<br>(3W3P Male) | A1. VCC | +27V |
| | A2. GND | |
| | A3. N.C | |

## 5. Electrical Test Data

5.1 IMD @Po=+43dBm(CW 8 Tone / CW 2 Tone) / DC 27V, 5.0A



## 6. Outline Drawing




## 7. Photo