

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 | 870MHz~880MHz | 10MHz BW |
| Output Power | 30W(+44.77dBm) | |
| Gain | 54dB±1dB | |
| Gain Flatness | 1dB peak to peak | |
| Gain Variation Over Temp. | ±1dB max | -20°C~+60°C |
| IMD | < -60dBc | CW 10 tone, 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 | 8.5A max. | |
| Enable | TTL Low Active | |
| Output Detect | 4.0V @Po=+45dBm | 0.1V/dB |



Environmental Specification

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

Mechanical Specification

Physical Dimension : 194mm X 198mm X 30mm

Pin Assignment

| | | |
|------------------------------------|---------------------|--|
| I/O Interface (D-Sub 9Pin Male) | 1. Over Power Alarm | Po=+47dBm |
| | 2. Over Temp. Alarm | Alarm &Shutdown +90°C ↑ Auto Recovery +70°C ↓ |
| | 3. VSWR Alarm | Over 3:1 |
| | 4. Temp. Monitor | Vo=(T / 100)+500mV |
| | 5. Alarm Status | Shutdown High |
| | 6. GND | |
| | 7. Power Monitor | 4.0V@Po=+45dBm |
| | 8. Enable/Disable | Enable : Low or open |
| | 9. GND | |
| I/O Interface (3W3P Male) | A1. VCC | +27V |
| | A2. GND | |
| | A3. N.C | |



Outline Drawing

