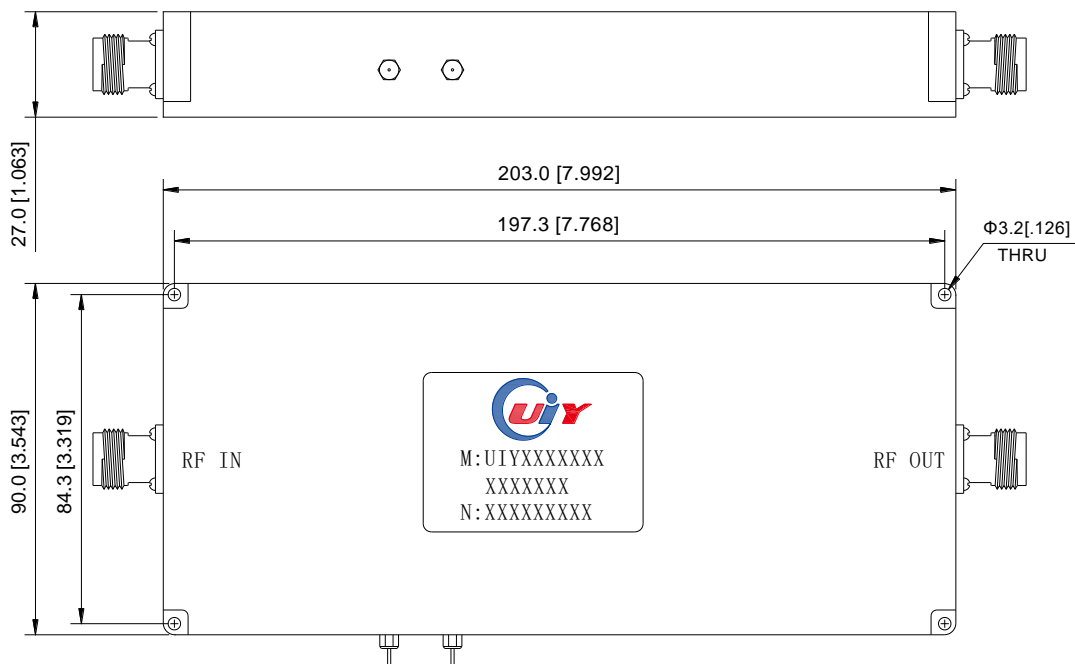


## 900 to 1300MHz 100W – Power Amplifier UIYPA20390A900T1300SFTNF

| RF Characteristics @T=25°C, VDD=+28VDC; 50Ω System   |                                   |     |       |      |      |
|--|-----------------------------------|-----|-------|------|------|
| Parameter  | Symbol                            | Min | Type  | Max  | Unit |
| Operating Frequency  | BW                                | 900 |       | 1300 | MHz  |
| Power Output CW  | Po                                |     | 100   |      | W    |
| Saturation Output Power  |                                   |     |       |      |      |
| Power Gain @CW   | G                                 |     | 50    |      | dB   |
| Input Power  | Pin                               |     | 0     |      | dBm  |
| Gain Flatness  | ΔG                                |     | ±0.5  |      | dB   |
| Input VSWR   | S11                               |     | 1.5:1 |      |      |
| Odd Harmonics @CW  | H                                 |     | 20    |      | dBc  |
| Even Harmonics @CW   | H                                 |     |       |      | dBc  |
| Efficiency   |                                   |     | 35%   |      |      |
| Spurious Signals   | Spur                              |     | -50   |      | dBc  |
| Operating Voltage  | VDC                               |     | 28    |      | Volt |
| Current Consumption @Po=20W  | I <sub>b</sub>                    |     |       |      | A    |
| Operating Temperature  | T <sub>c</sub>                    | -40 |       | +60  | °C   |
| Storage Temperature  | T <sub>stg</sub>                  | -45 |       | +90  | °C   |
| Connector Type   | Input SMA Female, Output N Female |     |       |      |      |
| ◇ Listed are specific frequency ranges and other ranges are available.<br>◇ Please provide the below information when inquiring and mark * is required.<br>* 1. The specific pass band frequency range<br>* 2. The specific Gain and Power<br>3. Other special requests. |                                   |     |       |      |      |

### Mechanical Drawing

Note: External heatsink is needed in this module



Unit: mm/ inch, General part tolerance is ±2% unless otherwise stated.

Ver. 5