

## AAM-0315-100W RF Power Amplifier Module Specification

Model: AAM-0315-100W

Frequency Range: 300–1500 MHz

Output Power: 100W

### Features

- Wide frequency coverage
- High output power
- GaN technology: high efficiency, high temperature tolerance, high voltage resistance
- Built-in temperature control and SWR protection
- High linearity and low distortion

### Mechanical Specifications

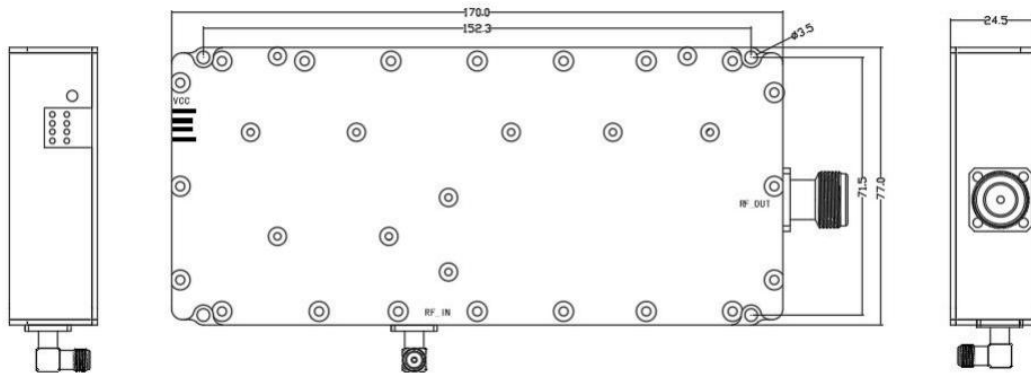
- Package Type: Metal module
- Cooling Method: Bottom-mounted heat sink
- Connector Type: N or customizable RF connector
- Cooling Requirement: Forced air cooling or conductive heat sink
- Mounting Method: Screw-fixed installation

### Performance Parameters

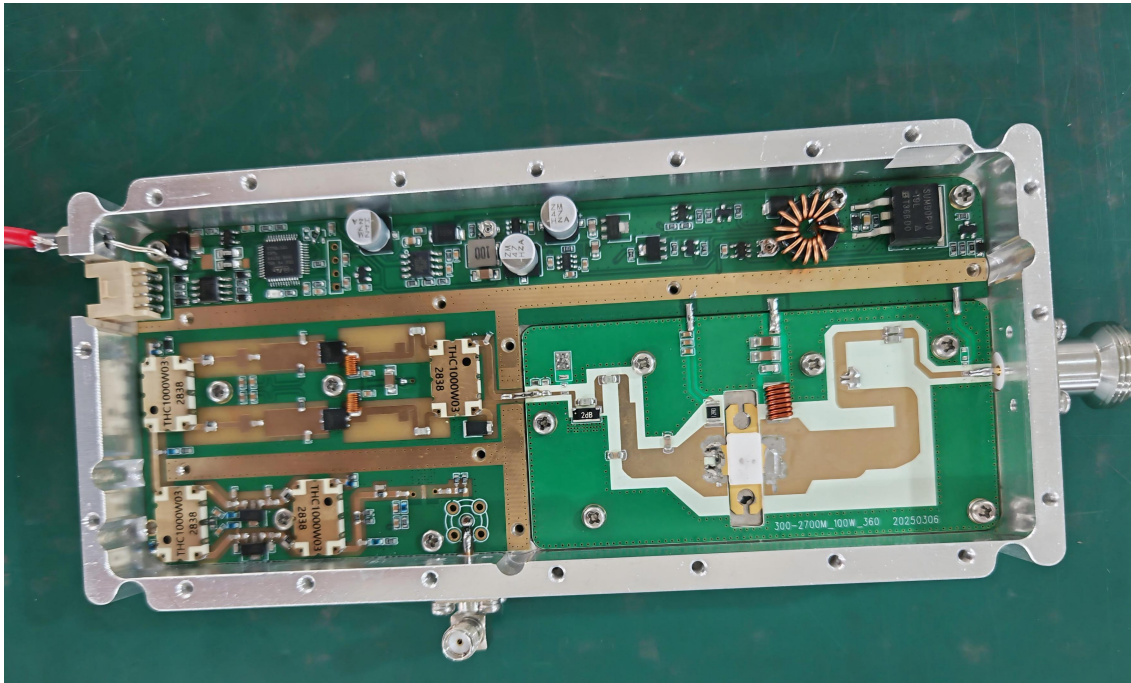
| Item                       | Specification | Unit | Remarks                 |
|----------------------------|---------------|------|-------------------------|
| Frequency Range            | 300–1500      | MHz  |                         |
| Working voltage            | 32            | V    | 28-32                   |
| Maximum output power       | 100           | W    | 100W@7.2A Typical Value |
| Power amplifier efficiency | 43            | %    | @100W                   |
| Maximum gain               | 55            | dB   | Maximum power gain      |
| Gain flatness              | ≤5            | dB   |                         |
| Standard input power       | 5             | dBm  |                         |

|                                 |                                 |   |     |  |
|---------------------------------|---------------------------------|---|-----|--|
| Maximum non -damaged power      |                                 | ≤10   | dBm |  |
| Output Port VSWR                |                                 | ≤2  |     | No power, network score test   |
| High and low temperature test   | working environment temperature | -10~+55℃  | ℃   |  |
|                                 | Power stability                 | ±1.0<br>@-40℃~+55℃                                  | dB  |  |
| Power supply requirements       |                                 | ≥9A@+32V DC   |     | Continuous wave output 100W  |
| Power supply interface          |                                 | Feedthrough Capacitor                               |     |  |
| Control communication interface |                                 | 485 communication protocol<br><br>TTL communication |     | Support temperature,current, voltage detection,radio frequency output power detection<br>2.54mm 2*4 seats<br>TTL communication can communicate with the digital source, set the digital source frequency band and output power |
| RF connector                    |                                 |   |     | Input SMA<br>Output N-Female   |
| Size                            |                                 | 170*77*24.5   | mm  |  |
| Weight                          |                                 | 900   | g   |  |
| Installation hole               |                                 | 152.3*71.5  | mm  | M3.0*4   |

## Mechanical Drawing



## Product Image



## Notes

1. All parameters are measured at ambient temperature of 25°C unless otherwise specified.
2. For custom connectors or special frequency range requirements, please contact our sales team.