

AAM-2540-100W RF Power Amplifier Module Specification

Model:AAM-2540-100W

Frequency Range: 2500–4000 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

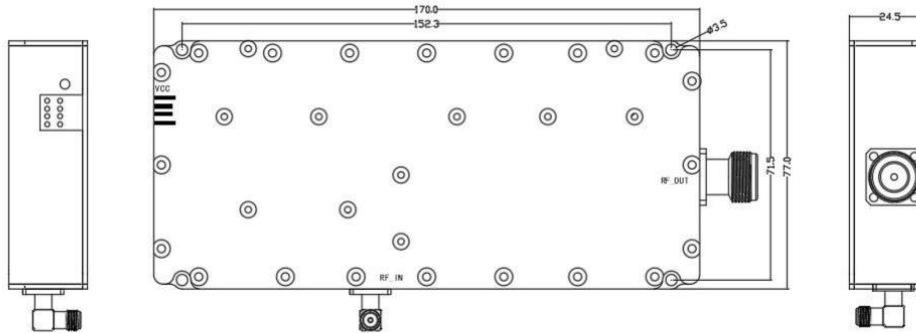
- Package Type: Metal module
- Cooling Method: Bottom-mounted heat sink
- Connector Type: N or customizable RF connector
- Cooling Requirement: Forced air cooling or conductive heat sink
- Mounting Method: Screw-fixed installation

Performance Parameters

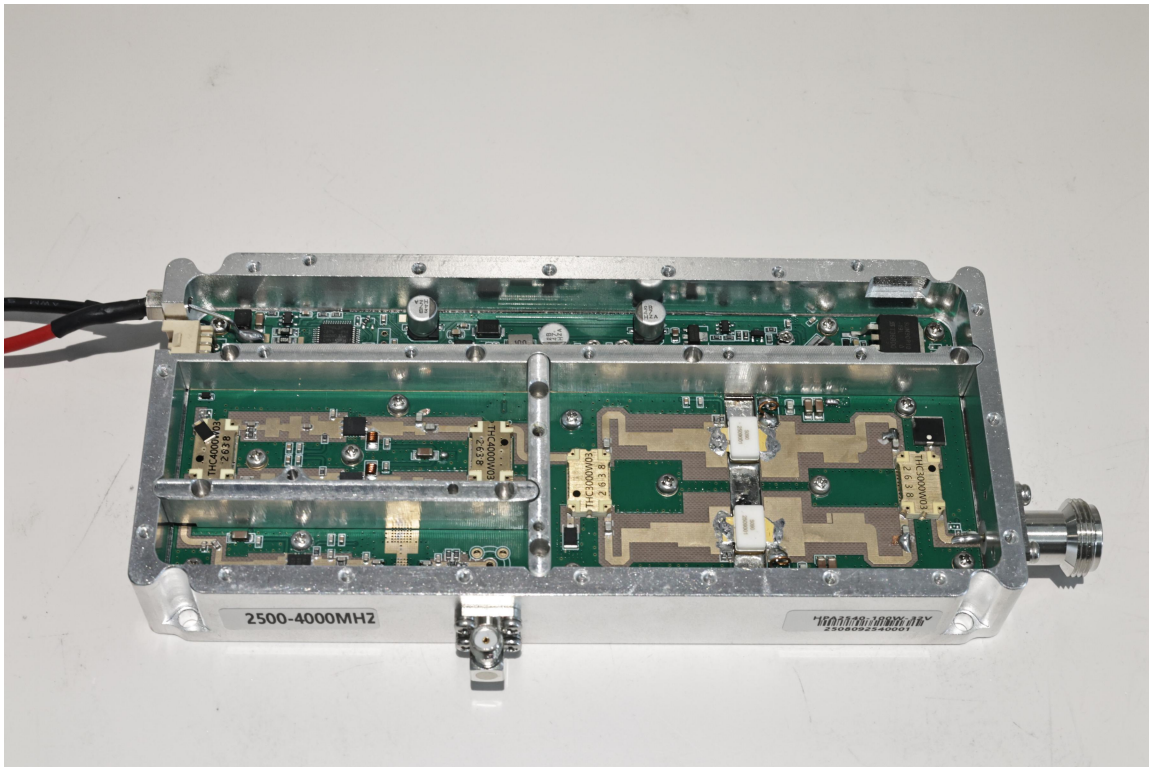
Item	Specification	Unit	Remarks
Frequency Range	2500–4000	MHz	
Working voltage	32	V	28-32
Maximum output power	100	W	100W@9A Typical Value
Power amplifier efficiency	32	%	@100W
Maximum gain	55	dB	Maximum power gain
Gain flatness	≤5	dB	
Standard input power	5	dBm	

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@-40℃~+55℃	dB	
Power supply requirements		≥11A@+32V DC		Continuous wave output 100W
Power supply interface		Feedthrough Capacitor		
Control communication interface		485 communication protocol TTL communication		Support temperature,current, voltage detection,radio frequency output power detection 2.54mm 2*4 seats TTL communication can communicate with the digital source, set the digital source frequency band and output power
RF output connector				Input SMA Output N-Female
Size		170*77*24.5	mm	
Weight		750	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.