

AAM-3336-100W RF Power Amplifier Module Specification

Model: AAM-3336-100W

Frequency Range: 3300~3600 MHz

Output Power: 100W

Features

- Frequency range from 3300~3600MHz for 300M bandwidth
- Class AB GaN design
- Instantaneous wide bandwidth
- 50 Ohm Input/Output impedance
- Small size and Light weight
- High reliability and Ruggedness
- Ultra-wide digital interference source
- Comprehensive protection against over-temperature and VSWR

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

Description

The AAM-3336-100W is designed for general purpose. Operating frequency range is from 3300~3600MHz,Customize 300 MHz bandwidth.Gallium Nitride on GaN Technology is used and attached on a copper sub carrier.Improved thermal handling by patented technology.

Performance Parameters

@ VDC=24-32V (Wide voltage input) , TC=50°C, 50 Ω □ System

PARAMETER	UNIT	MIN	TYP	MAX	SYMBOL
Operating Frequency	MHz	3300	-	3600	Fo

Operating Bandwidth	MHz	-	300	-	BW
Peak Output Power @CW Signal	W	-	100	-	P _{SAT}
Input Power	dBm	+4	+6	+8	P _{IN}
Maximum Input Power @Without Damage	dBm		-	-	P _{IN, MAX}
Power Gain @Input Power 0dBm	dB	-	44±1	-	G _P
Gain Flatness @Input Power 0dBm	dB	-	-	±1	ΔG _P
Efficiency	%	50	52	55	E _{FF}
Harmonics 1 to N @Output Power100W	dBc	12	13	15	H _N
Spurious Level	dBc	60	-	-	Spur
Input VSWR	dB	-	-	-	VSWR
Output VSWR	dB	-	-	2:1	VSWR
Operating Voltage	V	24	32	36	V _{DC}
Current Consumption @Output Power100W	A	-	7.0	-	I _{DC}

Environmental Specifications

PARAMETER	UNIT	RATING	SYMBOL
Operating Case Temperature	°C	-20 ~ 85	T _C
Storage Temperature	°C	-40 ~ 105	T _{STG}
Relative Humidity(Non-condensing)	RH	95	%

Operating Voltages

PARAMETER	UNIT	NOMINAL VOLTAGE	VOLTAGE ACCURACY	SYMBOL
Operating Voltage	V	24-32	± 2%	V _{DC}
HPA Enable Voltage	V	5-32		V _{DC}
Current Monitor Voltage	V	-		
Temp Monitor Voltage	V	-		

Mechanical Specifications

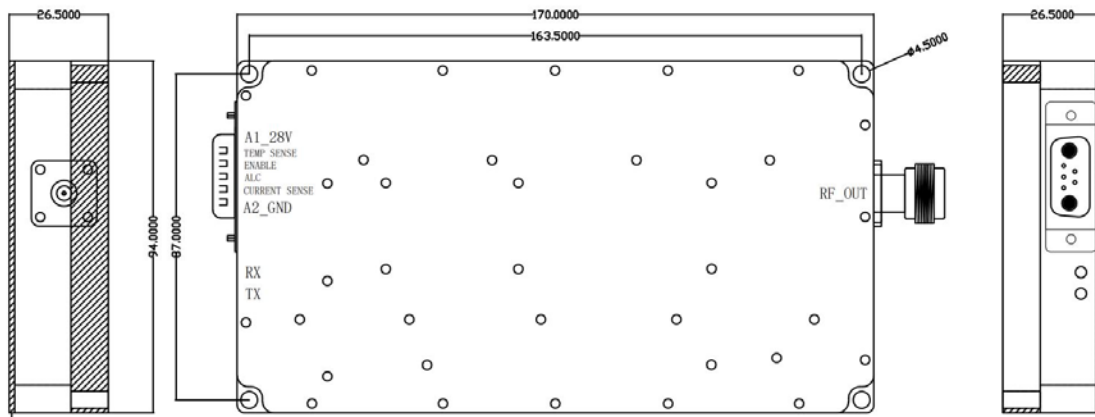
PARAMETER	UNIT	TYP
Mass	kg	0.8
Dimension	mm	170 x94 x 26.5(Without Connectors)
RF Connector	-	MCX Female : RF Input
		N Female : RF Output
DC Connector	-	Power Line, Male : Supply
Cooling		External Heat-sink Required

DC INTERFACE CONNECTOR – [Hybrid D-Sub 6-Pin, Male]

Pin#	Description	Specifications
1	A1_28V	+28VDC
2	TEMP	Analog voltage relative to Module's Temperature@10mV/°C
3	Enable	3.3-5V
4	ALC	Automatic Level Control
5	CURR	Analog voltage relative to IDD@100mV per Ampere
6	A2_GND	Ground

Mechanical Drawing

* Unit: mm[inch] | Tolerance ± 0.2 [.0078]



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.