

AMP1006000-FUNC-100W

Product Features

- Frequency range from 100 ~ 6000MHz for 10-300M 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

Description

The AMP1006000-100W-28V is designed for general purpose. Operating frequency range is from 100~6000MHz,Customize any 10-300 MHz bandwidth.Gallium Nitride on GaN Technology is used and attached on a copper sub carrier.Improved thermal handling by patented technology.

Electrical Specifications @ $V_{DC}=24-32V$ (Wide voltage input) , $T_C=50^{\circ}C$, 50 Ω System

PARAMETER	UNIT	MIN	TYP	MAX	SYMBOL
Operating Frequency	MHz	100	-	6000	F _O
Operating Bandwidth	MHz	-	300	-	BW
Peak Output Power @CW Signal	W	-	100	-	P _{SAT}
Input Power	dBm	-	-	-	P _{IN}
Maximum Input Power @Without Damage	dBm		-	-	P _{IN, MAX}
Power Gain @Input Power 0dBm	dB	-	50±3	-	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	28	32	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	%

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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

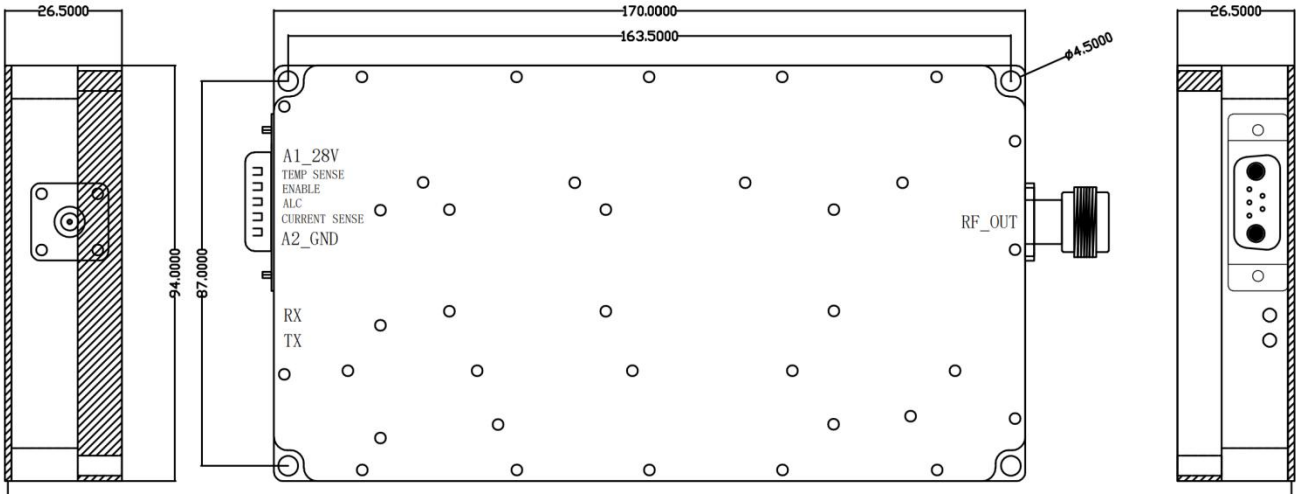
DC INTERFACE CONNECTOR – [Hybrid D-Sub 6-Pin, Male]

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
2	CURR	Analog voltage relative to IDD@100mV per Ampere
6	A2_GND	Ground

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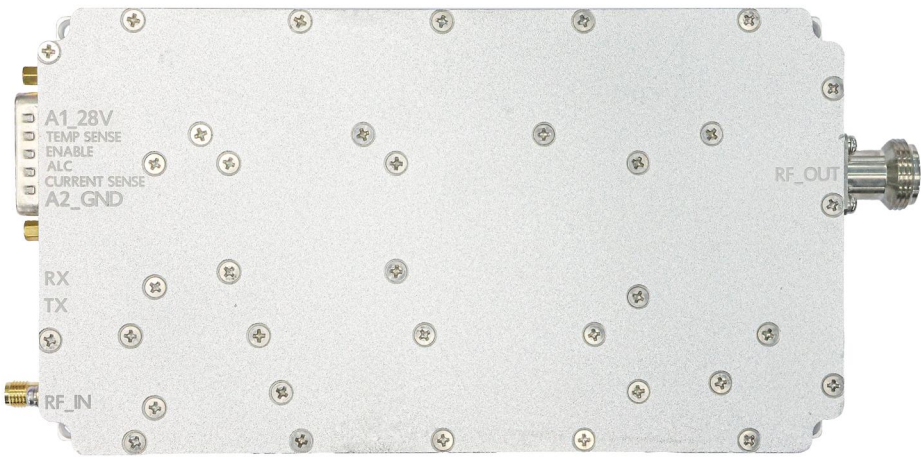
Outline Drawing

* Unit: mm[inch] | Tolerance $\pm 0.2[.0078]$



100-6000M

Side View [3D]



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