

# AMP4006000-20

## Product Features

- Frequency range from 400 ~ 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 AMP4006000-20W is designed for general purpose. Operating frequency range is from 400~6000MHz,Customize any 10-200 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 $\Omega$ System

PARAMETER	UNIT	MIN	TYP	MAX	SYMBOL
Operating Frequency range	MHz	400	-	6000	F <sub>O</sub>
Operating Bandwidth	MHz	-	150	-	BW
Peak Output Power @CW Signal	W	-	20	-	P <sub>SAT</sub>
Input Power	dBm	-	-	-	P <sub>IN</sub>
Maximum Input Power @Without Damage	dBm	-	-	-	P <sub>IN,MAX</sub>
Power Gain @Input Power 0dBm	dB	-	43±1	-	G <sub>P</sub>
Gain Flatness @Input Power 0dBm	dB	-	-	±1	ΔG <sub>P</sub>
Efficiency	%	40	43	45	E <sub>FF</sub>
Harmonics 1 to N @Output Power 20W	dBc	12	13	15	H <sub>N</sub>
Spurious Level	dBc	60	-	-	Spur
Input VSWR	dB	-	-	-	VSWR
Output VSWR	dB	-	-	2:1	VSWR
Operating Voltage	V	24	28	32	V <sub>DC</sub>
Current Consumption @Output Power 20W	A	-	1.6	-	I <sub>DC</sub>

## Environmental Specifications

PARAMETER	UNIT	RATING	SYMBOL
Operating Case Temperature	°C	-20 ~ 85	T <sub>C</sub>
Storage Temperature	°C	-40 ~ 105	T <sub>STG</sub>
Relative Humidity(Non-condensing)	RH	95	%

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## Operating Voltages

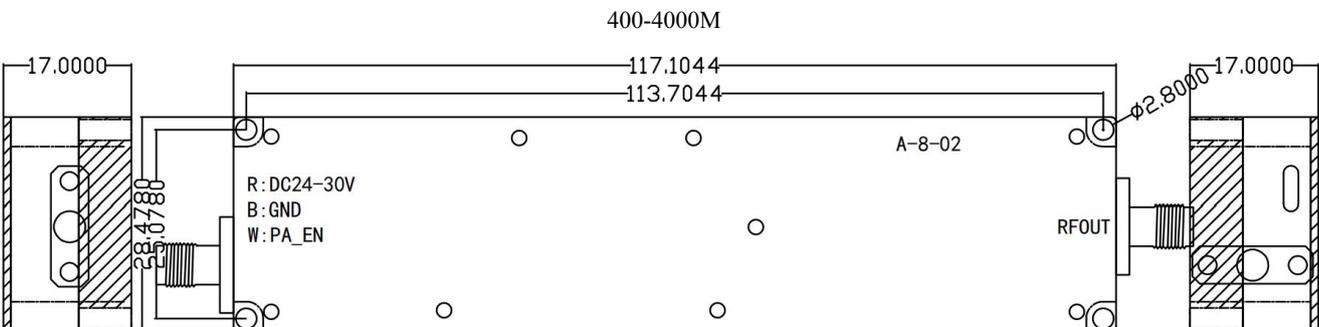
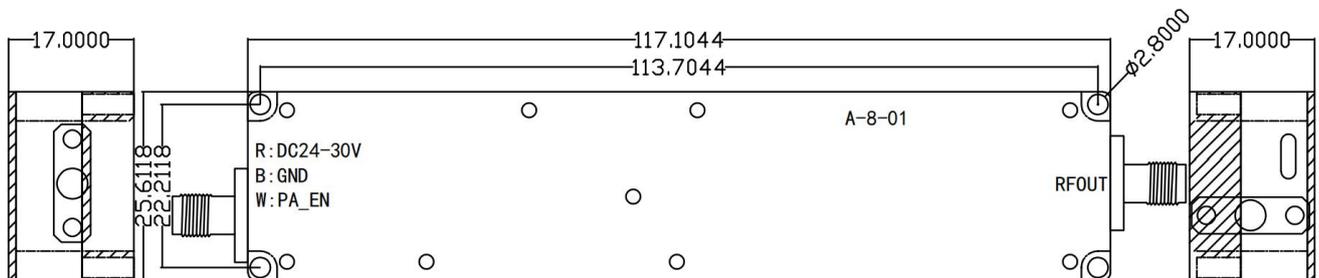
PARAMETER	UNIT	NOMINAL VOLTAGE	VOLTAGE ACCURACY	SYMBOL
Operating Voltage	V	24-32	± 2%	V <sub>DC</sub>
HPA Enable Voltage	V	5-32		V <sub>DC</sub>
Current Monitor Voltage	V	-		
Temp Monitor Voltage	V	-		

## Mechanical Specifications

PARAMETER	UNIT	TYP
Mass	kg	0.1
Dimension	mm	117.3 x25.6 x 17 117.3 x28.5 x 17 (Without Connectors)
RF Connector	-	MCX Female : RF Input SMA : RF Output
DC Connector	-	Power Line, Male : Supply
Cooling		External Heat-sink Required

## Outline Drawing

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



### 4000-6000M

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