

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2023/8/11	C. Chen

## TECHNICAL DATA

### ► Electrical Data(50Ω, 25°C)

Frequency Range	1~6GHz
Output Power(CW)	45.5dBm min, 46dBm typ
Gain	45dB min, 50dB typ
Gain Flatness	±4.0dB typ, ±5.0dB max
Gain Variation@-30°C~+65°C	±3.0dB typ
Input VSWR	1.5:1 typ
Max Input Power	+3dBm
Harmonic	-10dBc typ
Spurious	-60dBc max
Isolation	-45dB typ
Operating Voltage	+32V typ, +33V max
Operating Current	1A typ, 8A max

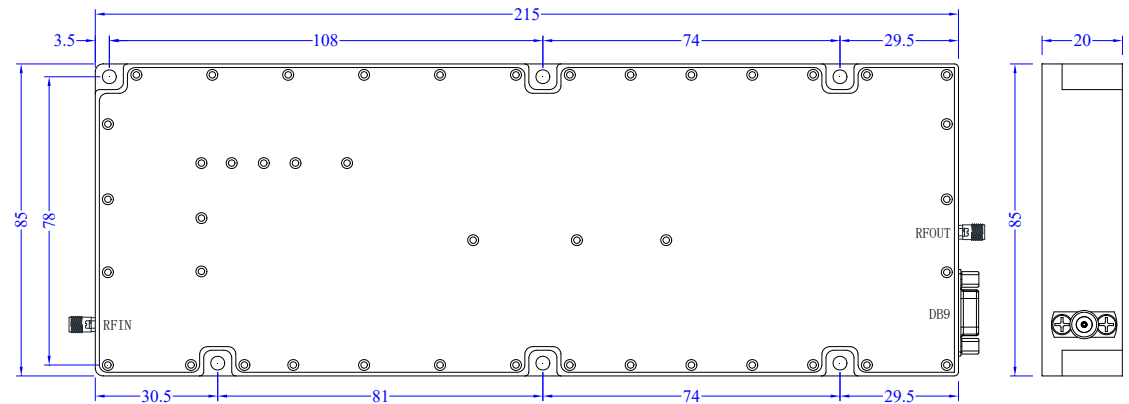
### ► Mechanical Data

Dimensions	215×85×20mm
Input Connector	SMA-Female
Output Connector	SMA-Female
DC Power/Interface Connector	9-Pin D-Sub

### ► Environmental Data

Operating Temperature	-30°C~+60°C
Storage Temperature	-50°C~+105°C

! Stress above these ratings may cause permanent damage to the device  
Radiator/Heatsink required during operation or test(optional)



DC Power Connector, 9-Pin D-Sub, Female

Pin	Name	Function	Specifications
1,2,3,4	+32V	Input	+28~+33VDC
5,6,7	GND	Input	Ground
8	Temp Alarm	Output	When the temperature of the case exceeds 70°C, PA will turn off and this pin will be pulled high. If the temperature of case drops to 60°C, PA will turn to normal operation, and this pin will be pulled low.
9	Enable	Input	Amplifier Enable:TTL High(5V)(Internally Pulled-High)

DRAWN: L. Ma 11/08/23		
ENGINEER: J. Zhu 11/08/23		
APPROVED: C. Chen 11/08/23		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
x	±0.50	[0.019"]
.x	±0.20	[0.008"]
.xx	±0.10	[0.004"]
ANGLES	±1°	

**TITLE:**  
Power Amplifier, 1-6GHz,  
Gain 50dB, Output Power  
46dBm, +32V, SMA-  
Female

**PART No.:**  
TMPA-01000600-5046

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DIMENSIONS IN MILLIMETERS(mm)

SIZE: A4	SCALE:	SHEET: 1/1	REV: A
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Notes:

- ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
- CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY