

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2023/3/10	C. Chen

## TECHNICAL DATA

### ► Electrical Data(50Ω, 25℃)

Frequency Range	1.5~30MHz
Output Power(CW)	49dBm min, 55dBm typ
Gain	50dB min, 52dB typ
Gain Flatness	±1.0dB typ
Input VSWR	1.5:1 typ
Max Input Power	+5dBm
Harmonic	-10dBc typ
2-Tone Intermodulation(IMD)	-20dBc typ(40dBm/Tone, Δ=200KHz)
Spurious	-60dBc max
Isolation	-45dB typ
Operating Voltage	+26V~+30V
Operating Current	1.5A typ, 12A max

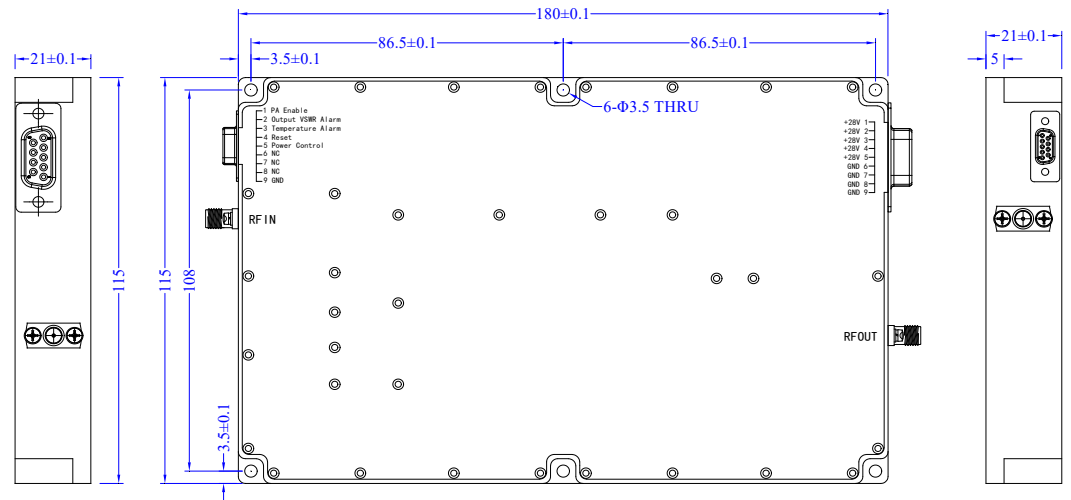
### ► Mechanical Data

Dimensions	180×115×21mm
RF Connectors IN/OUT	SMA-Female
DC Power/Interface Connector	9-Pin D-Sub
Control Interface Connector	J30J-9

### ► Environmental Data

Operating Temperature	-30℃~+60℃
Storage Temperature	-50℃~+105℃

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



Control Interface Connector, J30J, 9-Pin, Female

Pin	Signal	Type	Description
1	PA-Enable	Input	Applying logic LOW disables drains of amplifiers
2	VSWR Alarm	Output	Pin will be latched to logic HIGH, and PA Off when output reflection is more than 5.
3	Temp Alarm	Output	Pin will be latched to logic HIGH, and PA Off when case temperature is more than 70℃
4	Reset	Input	When PA triggers the VSWR protection, PA will shut down and enter the state lock. Giving this pin a 10us low pulse will restart. Only the VSWR protection can be reset.
5	NC	-	No Internal Connection
6	NC	-	No Internal Connection
7	NC	-	No Internal Connection
8	NC	-	No Internal Connection
9	GND	Input	Ground

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

Pin	Name	Function	Specifications
1	+28V	Input	+26~+30VDC
2	+28V	Input	+26~+30VDC
3	+28V	Input	+26~+30VDC
4	+28V	Input	+26~+30VDC
5	+28V	Input	+26~+30VDC
6	GND	Input	Ground
7	GND	Input	Ground
8	GND	Input	Ground
9	GND	Input	Ground

DRAWN: L. Ma 10/03/23		
ENGINEER: J. Zhu 10/03/23		
APPROVED: C. Chen 10/03/23		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
x	±0.50	[0.019"]
.x	±0.20	[0.008"]
.xx	±0.10	[0.004"]
ANGLES	±1°	

**TITLE:**  
Power Amplifier, 1.5-30MHz, Gain 50dB, Output Power 49dBm, +28V, SMA-Female

**PART No.:**  
TMPA-1.5M30M-5049

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DIMENSIONS IN MILLIMETERS(mm)

<b>SIZE:</b> A4	<b>SCALE:</b>	<b>SHEET:</b> 1/1	<b>REV:</b> A
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- Notes:
- ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
  - CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY