

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	1~1000MHz
Output Power(CW)	43dBm min, 45dBm typ
Gain	43dB min, 45dB typ
Gain Flatness	±2.0dB typ
Gain Variation@-30°C~+65°C	±3.0dB typ
Input VSWR	1.5:1 typ
Max Input Power	+5dBm
Harmonic	-10dBc typ
IMD3, 2-Tone(35dBm/Tone)	-20dBc typ(1MHz Spacing)
Spurious	-60dBc max
Isolation	-45dB typ
Operating Voltage	+28V typ, +30V max
Operating Current	1A typ, 6A max

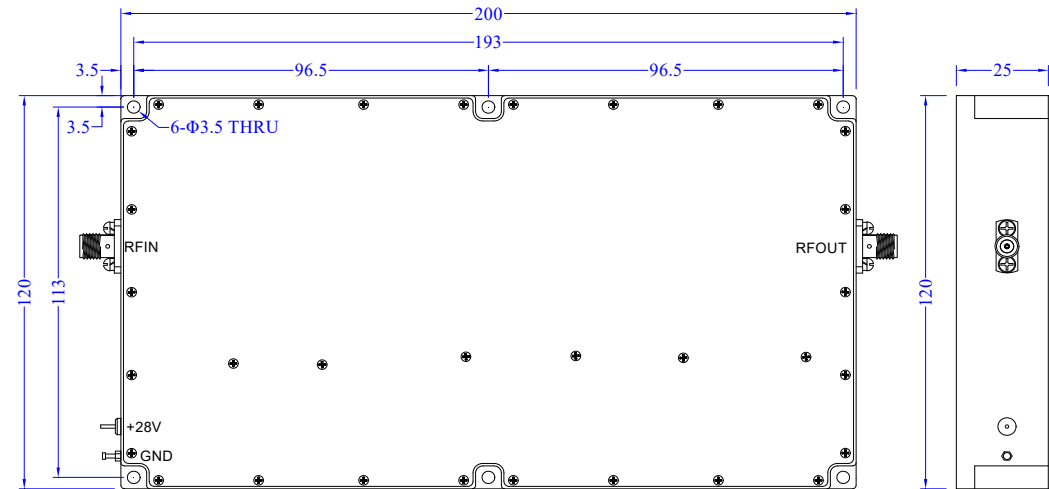
### ► Mechanical Data

Dimensions	200×120×25mm
Input Connector	SMA-Female
Output Connector	SMA-Female
DC Power/Interface Connector	Feedthru Capacitor

### ► 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, 24V/0.3A)



#### Notes:

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

DRAWN: L. Ma 11/08/23	TITLE: Power Amplifier, 1-1000MHz, Gain 45dB, Output Power 45dBm, +28V, SMA-Female				
ENGINEER: J. Zhu 11/08/23				www.titan-microwave.com	
APPROVED: C. Chen 11/08/23		DIMENSIONS IN MILLIMETERS(mm)			
TOLERANCE UNLESS OTHERWISE SPECIFIED	PART No.:	SIZE:	SCALE:	SHEET:	REV:
x ±0.50 [0.019"]	TMPA-1M1000M-4545	A4		1/1	A
.x ±0.20 [0.008"]					
.xx ±0.10 [0.004"]					
ANGLES ±1°					