

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	1~3GHz
Output Power(CW)	50dBm min, 51dBm typ
Output Power(P1dB)	47dBm typ
Gain	50dB min, 54dB typ
Gain Flatness	±3.0dB typ, ±4.0dB max
Input VSWR	1.5:1 typ
Max Input Power	+5dBm
Harmonic	-20dBc typ, -15dBc max
IMD3, 2-Tone(43dBm/Tone)	-20dBc typ(1MHz Spacing)
Spurious	-60dBc max
Isolation	-45dB typ
Operating Voltage	+34V~+38V
Operating Current	3A typ, 13A max

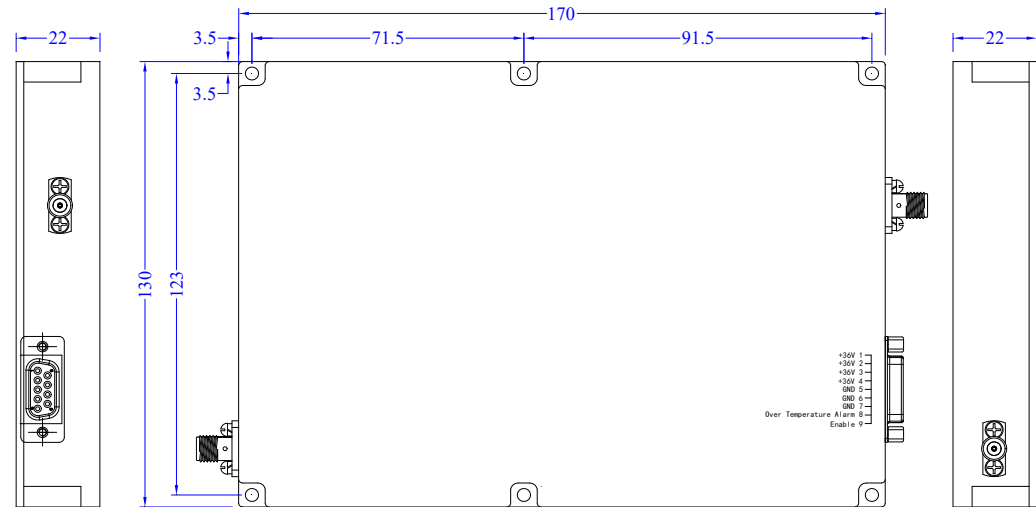
► Mechanical Data

Dimensions	170×130×22mm
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	+36V	Input	+34~+38V
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, 1-3GHz,
Gain 54dB, Output Power
51dBm, +36V, SMA-
Female

PART No.:
TMPA-01000300-5451



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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