

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	1~400MHz
Output Power(CW)	49dBm min, 50dBm typ
Output Power(P1dB)	48dBm typ
Gain	50dB min, 52dB typ
Gain Flatness	±2.0dB typ
Gain Variation@-30°C~+70°C	±3.0dB typ
Input VSWR	1.5:1 typ
Max Input Power	+5dBm
Harmonic	-10dBc typ
IMD3, 2-Tone(40dBm/Tone)	-25dBc typ(1MHz Spacing)
Spurious	-60dBc max
Isolation	-50dB typ
Operating Voltage	+26V~+30V
Operating Current(VCC=28V)	1.2A typ, 10A max

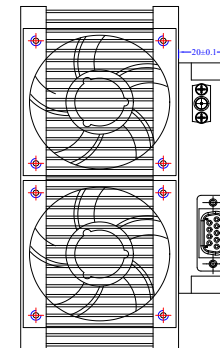
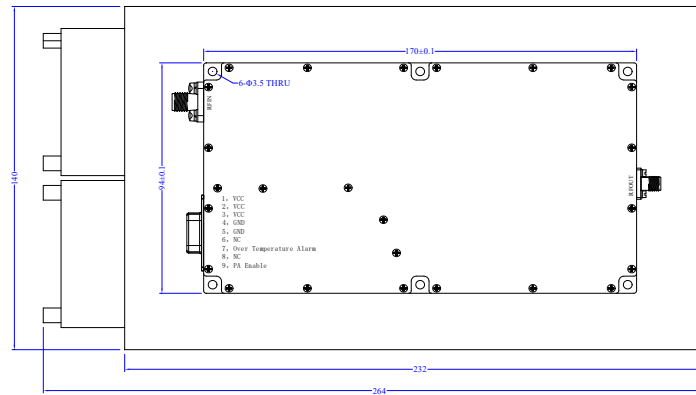
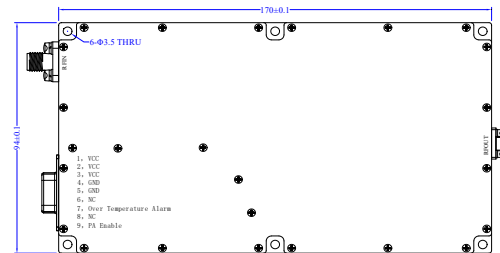
► Mechanical Data

Dimensions	170×94×20mm
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, 24V/0.3A)



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

Pin	Name	Function	Specifications
1,2,3	VCC	Power Supply	+26~+30V
4,5	GND	Power Supply	Ground
6	NC	Output	No Internal Connection
7	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.
8	NC	Input	No Internal Connection
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, 1-400MHz, Gain 52dB, Output Power 50dBm, +28V, SMA-Female

PART No.:
TMPA-1M400M-5052

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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