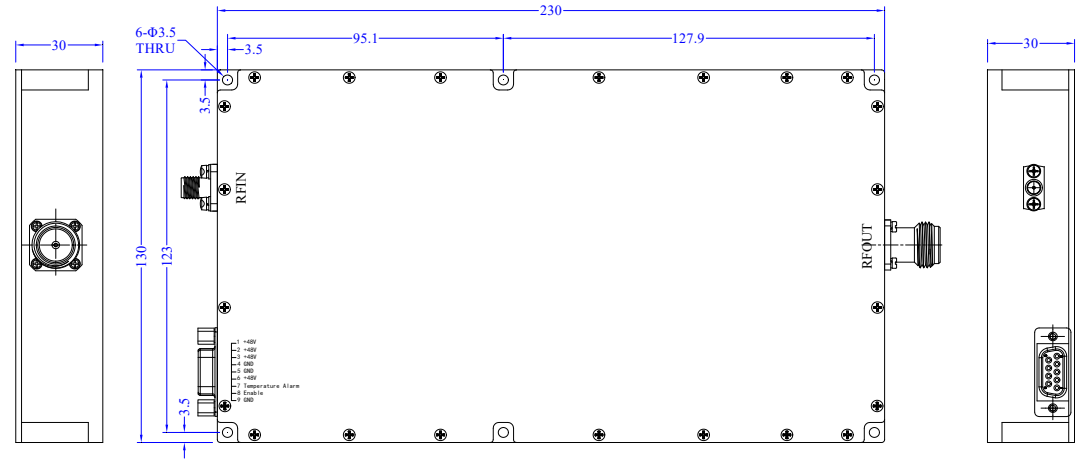


REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2023/5/20	C. Chen

TECHNICAL DATA

► Electrical Data(50Ω, 25°C)

Frequency Range	1~500MHz
Output Power(CW)	54dBm min, 55dBm typ
Output Power(P1dB)	52dBm typ
Gain	53dB min, 56dB typ
Gain Flatness	±3dB typ, ±4dB max
Gain Variation@-30°C~+70°C	±3dB typ
Input VSWR	1.5:1 typ
Max Input Power	+5dBm
Harmonic	-15dBc typ, -9dBc max
IMD3, 2-Tone(43dBm/Tone)	-20dBc typ(1MHz Spacing)
Spurious	-60dBc max
Isolation	-50dB typ
Operating Voltage	+38V~+42V
Operating Current(VCC=40V)	2.7A typ, 22A max



► Mechanical Data

Dimensions	230×130×30mm
Input Connector	SMA-Female
Output Connector	N-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	+48V	Input	+46~+50VDC
2	+48V	Input	+46~+50VDC
3	+48V	Input	+46~+50VDC
4	GND	Input	Ground
5	GND	Input	Ground
6	+48V	Input	+46~+50VDC
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	PA-Enable	Input	Amplifier Enable: TTL High(5V)(Internally Pulled-High)
9	GND	Input	Ground

DRAWN: L. Ma 20/05/23
ENGINEER: J. Zhu 20/05/23
APPROVED: C. Chen 20/05/23
TOLERANCE UNLESS OTHERWISE SPECIFIED

x	±0.50	[0.019"]
.x	±0.20	[0.008"]
.xx	±0.10	[0.004"]
ANGLES	±1°	

TITLE:
Power Amplifier, 1-500MHz, Gain 56dB, Output Power 55dBm, +40V, SMA/N-Female

PART No.:
TMPA-1M500M-5655

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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