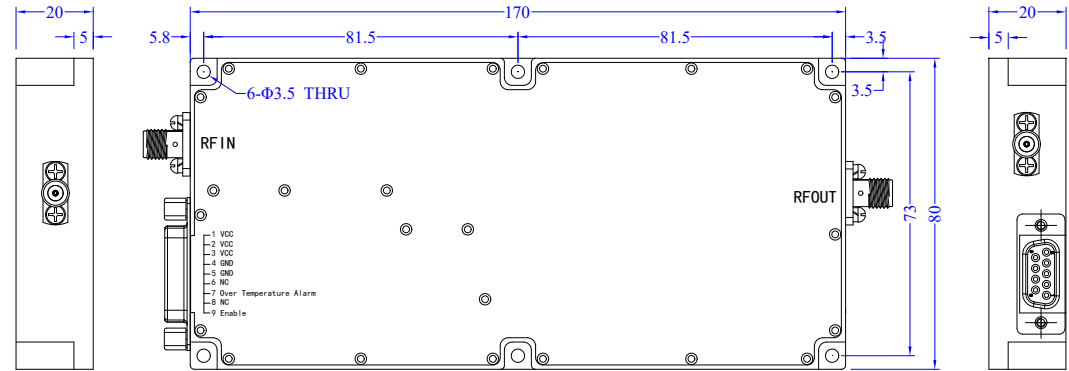


REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2023/8/11	C. Chen

TECHNICAL DATA

► Electrical Data(50Ω, 25°C)

Frequency Range	0.03~2.5GHz
Output Power(CW)	44dBm min, 45dBm typ
Gain	43dB min, 45dB typ
Gain Flatness	±3.0dB typ
Input VSWR	2.0:1 typ
Max Input Power	+5dBm
Harmonic	-10dBc typ
IMD3, 2-Tone(33dBm/Tone)	-20dBc typ(1MHz Spacing)
Spurious	-60dBc max
Isolation	-45dB typ
Operating Voltage	+46V~+50V
Operating Current	1A typ, 3.5A max



► Mechanical Data

Dimensions	170×80×20mm
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)

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

Pin	Name	Function	Specifications
1,2,3	VCC	Power Supply	+46~+50V
4,5	GND	Power Supply	Ground
6	NC	Output	-
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	-
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, 0.03-
2.5GHz, Gain 45dB,
Output Power 45dBm,
+48V, SMA-Female

PART No.:
TMPA-00030250-4545



www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

SIZE: A4	SCALE:	SHEET: 1/1	REV: A
-------------	--------	---------------	-----------

Notes:

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