

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2023/3/10	C. Chen

TECHNICAL DATA

► Electrical Data(50Ω, 25℃)

Frequency Range	30~512MHz
Output Power(CW)	53dBm min, 54dBm typ
Gain	55dB min, 57dB typ
Gain Flatness	±2.0dB typ
Input VSWR	1.5:1 typ
Max Input Power	+5dBm
Harmonic	-10dBc typ
IMD3, 2-Tone(44dBm/Tone)	-20dBc typ(1MHz Spacing)
Spurious	-60dBc max
Isolation	-45dB typ
Operating Voltage	+34V~+38V
Operating Current	3A typ, 20A max

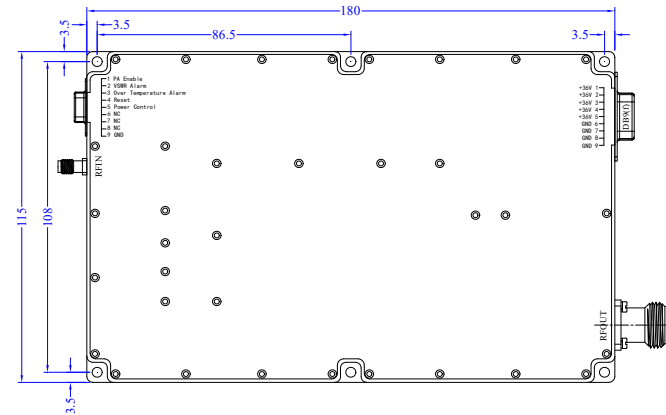
► Mechanical Data

Dimensions	180×115×25mm
RF Connectors IN/OUT	SMA-Female/N-Female
DC Power/Interface Connector	9-Pin D-Sub
Control Interface Connector	J30J-9ZKW-J

► Environmental Data

Operating Temperature	-30℃~+60℃
Storage Temperature	-50℃~+105℃

- ! Stress above these ratings may cause permanent damage to the device
Radiator/Heatsink required during operation or test(optional)



Control Interface Connector, J30J-9ZKW-J, 9-Pin, Female

Pin	Name	Function	Specifications
1	PA-Enable	Input	Amplifier Enable: TTL High(5V) (Internally Pulled-High)
2	VSWR Alarm	Output	Pin will be latched to logic HIGH, and PA Off when output reflection is more than 5.
3	Over Temp Alarm	Output	When the temperature of the case exceeds 70℃, PA will turn off and this pin will be pulled high. If the temperature of case drops to 60℃, PA will turn to normal operation, and this pin will be pulled low.
4	Reset	Input	When PA triggers the VSWR protection, PA will shut down and enter the state lock. Giving this pin a 10us low pulse will restart. Only the VSWR protection can be reset.
5	Power Control	Input	Input Voltage 0-7V, Attenuation 30dB-0dB Input Voltage 2-7V, Attenuation 10dB-0dB
6	NC	-	No Internal Connection
7	NC	-	No Internal Connection
8	NC	-	No Internal Connection
9	GND	Input	Ground

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

Pin	Name	Function	Specifications
1	+36V	Input	+34~+38VDC
2	+36V	Input	+34~+38VDC
3	+36V	Input	+34~+38VDC
4	+36V	Input	+34~+38VDC
5	+36V	Input	+34~+38VDC
6	GND	Input	Ground
7	GND	Input	Ground
8	GND	Input	Ground
9	GND	Input	Ground

DRAWN: L. Ma 10/03/23

ENGINEER: J. Zhu 10/03/23

APPROVED: C. Chen 10/03/23

TOLERANCE UNLESS OTHERWISE SPECIFIED

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

TITLE:

Power Amplifier, 30-512MHz, Gain 57dB, Output Power 54dBm, +36V, SMA/N-Female

PART No.:

TMPA-00030051-5754

成都巨人微波
TITAN MICROWAVE INC.
- A Professional RF & Microwave Components Supplier -

www.titan-microwave.com



DIMENSIONS IN MILLIMETERS(mm)

SIZE:
A4

SCALE:

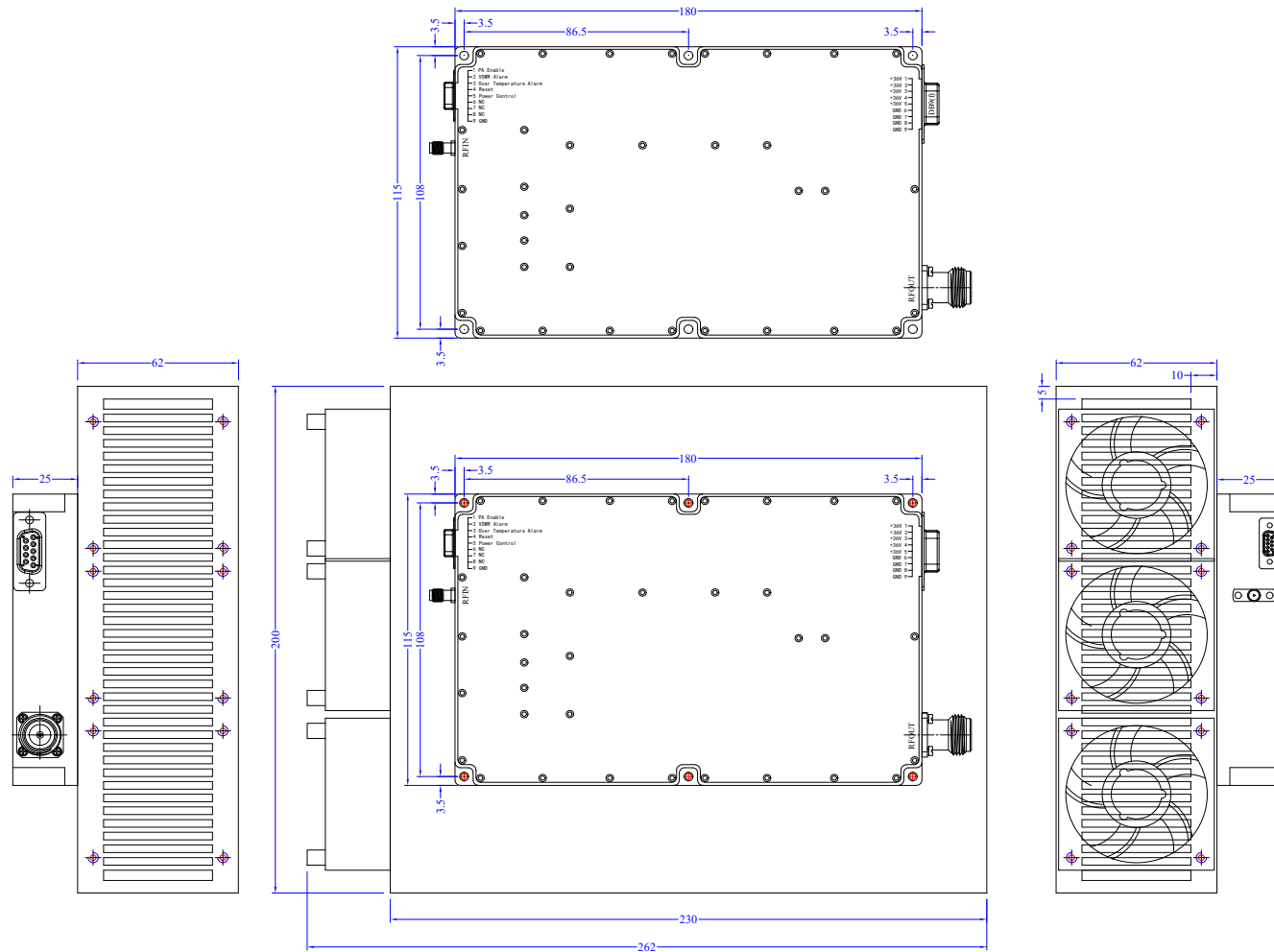
SHEET:
1/1

REV:
A

Notes:

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

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 DIMENSIONS IN MILLIMETERS(mm)			
SIZE:	SCALE:	SHEET:	REV:
A4		1/1	A