

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2022/11/20	C. Chen

## TECHNICAL DATA

### ► Electrical Data

Frequency Range	0.3-6GHz
Gain	≥50dB
Gain Flatness	≤±3.0dB
Output Power(P1dB)	≥43dBm
Output Power(Psat)	≥45dBm
Input VSWR	≤2.0
Isolation S12	≥70dB
Spurious	≤-65dBc
Harmonics@40dBm	≤-30dBc typical
Noise Figure	≤3.0dB
Impedance	50 Ohms
DC Power Supply	+48V/≤3A
Efficiency@Psat	30% typical

### ► Mechanical Data

Dimensions	100×60×69mm
Input/Output Connectors	SMA-Female
Control Connectors	DB-9 Male

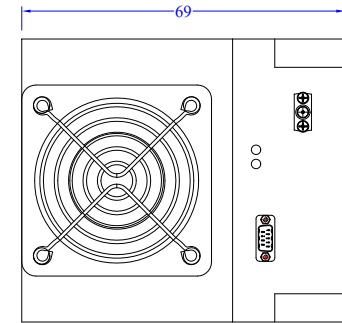
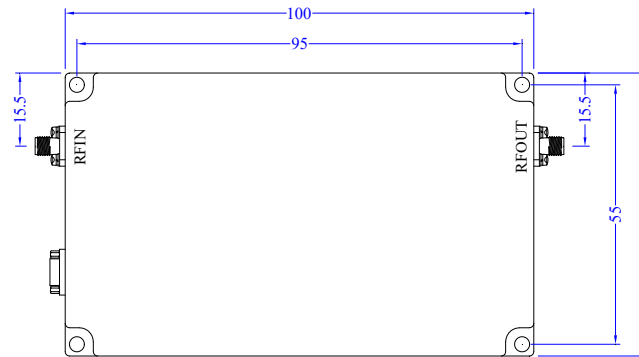
### ► Environmental Data

Operating Temperature	-40℃~+70℃
Storage Temperature	-55℃~+85℃

### ► Absolute Maximum Ratings

Operating Voltage	48V±0.5V
RF Input Power	≤+10dBm

\* Include voltage protection, current protectin, and temperature protection



1,2,3,4	48V/DC
5,6,7,8	GND
9	TTL(0~0.8V=ON,3.3-5V=OFF)

DRAWN: L. Ma 20/11/22		
ENGINEER: J. Zhu 20/11/22		
APPROVED: C. Chen 20/11/22		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
x	±0.50	[0.019"]
.x	±0.20	[0.008"]
.xx	±0.10	[0.004"]
ANGLES	±1°	

**TITLE:**  
Power Amplifier, 0.3-6GHz, Gain 50dB, Output Power 45dBm, +48V, SMA-Female

**PART No.:**  
TMPA-00300600-5045

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

[www.titan-microwave.com](http://www.titan-microwave.com)



DIMENSIONS IN MILLIMETERS(mm)

<b>SIZE:</b> A4	<b>SCALE:</b>	<b>SHEET:</b> 1/1	<b>REV:</b> A
--------------------	---------------	----------------------	------------------

**Notes:**

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