

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2023/6/10	C. Chen

TECHNICAL DATA

► Electrical Data(50Ω, 25°C)

Frequency Range	0.7~6GHz
Output Power(CW)	50dBm min, 51dBm typ
Output Power(P1dB)	47dBm typ
Gain	53dB min, 60dB typ
Gain Flatness	±4.0dB typ, ±6.0dB max
Input VSWR	1.5:1 typ
Max Input Power	+3dBm
Harmonic	-15dBc typ, -10dBc max
Spurious	-60dBc max
Operating Voltage	+26V~+30V
Operating Current(VCC=28V)	1.5A typ, 22A max

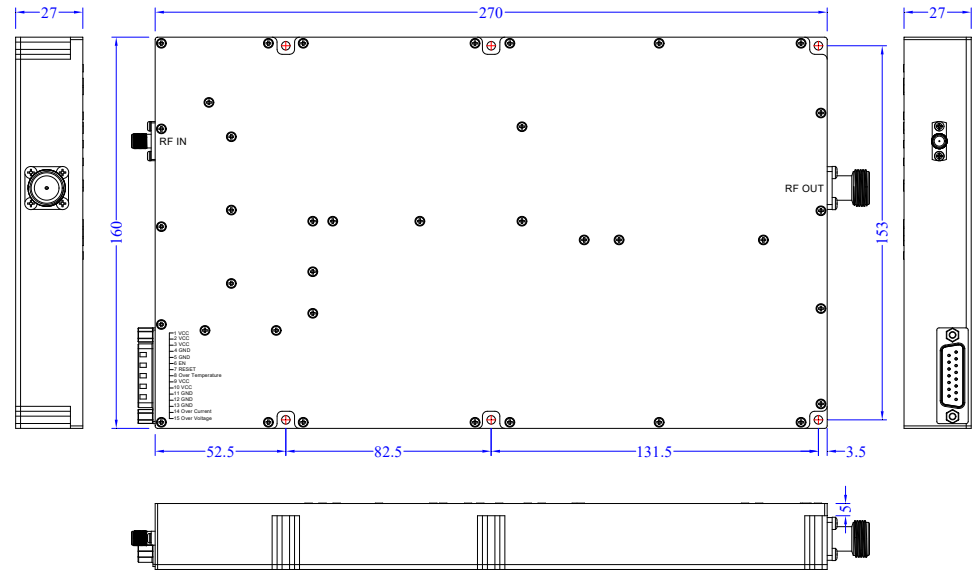
► Mechanical Data

Dimensions	270×160×27mm
RF Connectors IN/OUT	SMA-Female/N-Female
DC Power/Interface Connector	15-Pin D-Sub
Cooling	Forced Air Required(optional)

► Environmental Data

Operating Temperature	-30°C~+70°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



DC Interface Connector, 15-Pin D-Sub, Female

Pin	Name	Function
1,2,3	VCC	+26V~+30VDC
4,5	GND	Ground
6	PA-Enable	Amplifier Enable: TTL High(5V)(Internally Pulled-High)
7	Reset	Resets PA when logic LOW is applied and released. (Internally Pulled-High)
8	Over Temperature	When the temperature of the case exceeds 70°C, the PA will turn off and this pin will be pulled high. If the temperature of the case drops to 60°C, the PA will return to normal operation, and this pin will be pulled low.
9,10	VCC	+26V~+30VDC
11,12,13	GND	Ground
14	Over Current	Current FAULT:(TTL High=Fault, TTL Low=Normal)
15	Over Voltage	Voltage FAULT:(TTL High=Fault, TTL Low=Normal)

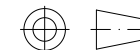
DRAWN: L. Ma 10/06/23		
ENGINEER: J. Zhu 10/06/23		
APPROVED: C. Chen 10/06/23		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
x	±0.50	[0.019"]
.x	±0.20	[0.008"]
.xx	±0.10	[0.004"]
ANGLES	±1°	

TITLE:
Power Amplifier, 0.7-6GHz, Gain 60dB, Output Power 51dBm, +28V, SMA-Female

PART No.:
TMPA-00700600-6051



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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