

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

TECHNICAL DATA

► Electrical Data

Frequency Range	10-18GHz
Gain	≥50dB
Gain Flatness	≤±2.5dB
Output Power(P1dB)	≥40dBm
Output Power(Psat)	≥43dBm
Input VSWR	≤2.0
Isolation S12	≥70dB
Spurious	≤-65dBc
Harmonics@39dBm	≤-30dBc typical
Noise Figure	≤3.5dB
Impedance	50 Ohms
DC Power Supply	+28V/≤3.5A
Efficiency@Psat	30% typical

► Mechanical Data

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

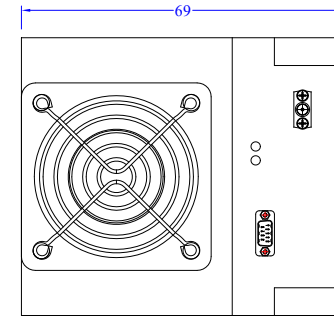
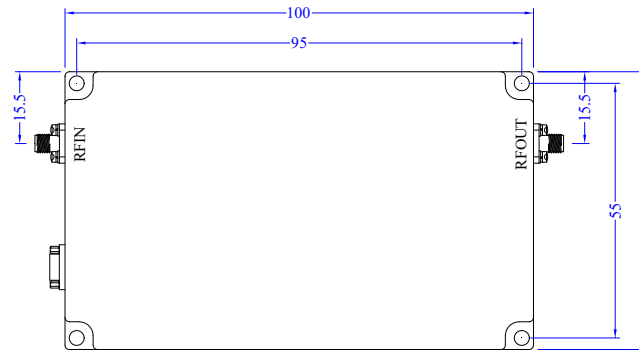
► Environmental Data

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

► Absolute Maximum Ratings

Operating Voltage	28V±0.5V
RF Input Power	≤+10dBm

* Include voltage protection, current protection, and temperature protection



1,2,3,4	28V/DC
5,6,7,8	GND
9	TTL(0~0.8V=ON,3.3-5V=OFF)

Notes:

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

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, 10-18GHz, Gain 50dB, Output Power 43dBm, +28V, SMA-Female

PART No.:

TMPA-10001800-5043



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DIMENSIONS IN MILLIMETERS(mm)

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