

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2022/7/18	C. Chen

TECHNICAL DATA

► Specifications(case temperature 25°C@32V)

Frequency Range	1-2GHz
Output Power	51dBm typ
Small Signal Gain	40±2.0dB max
Gain Flatness	±2.0dB typ
VSWR Input	1.4 min, 1.9 max
DC Voltage	+32V
Power Added Efficiency	30%
RF Connectors	SMA-Female
Operating Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°C

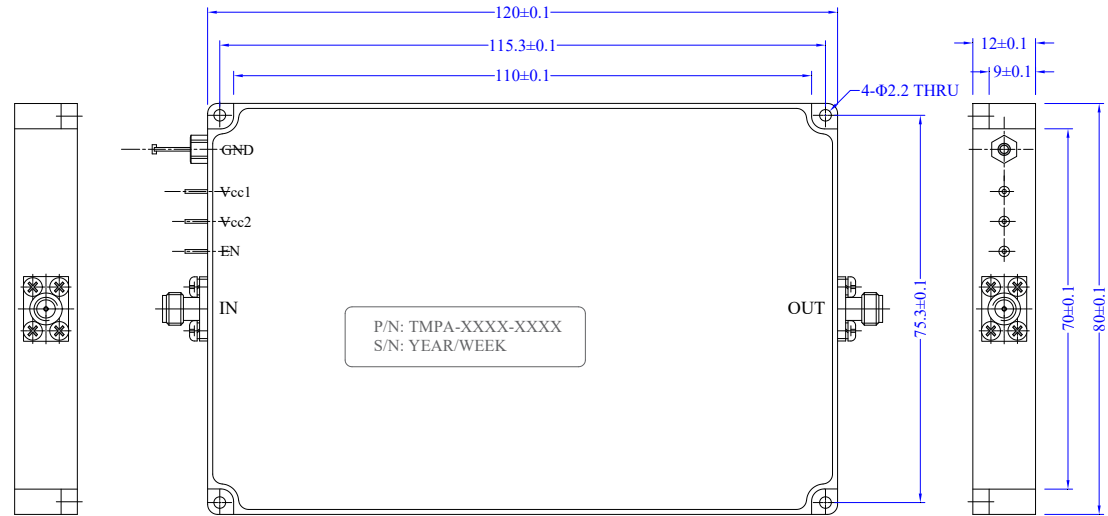
► Measurements Conditions

Temperature (DUT ON)	25°C ±1°C
Humidity	44%±10%
DUT Warm up time	30 min
DUT Miminum operation time	24 hours
Test equipment warm up time	2 hours
Additional temperature cycles in climatic chamber (DUT OFF)	-40°C~+85°C

► Absolute Maximum Ratings

DC Voltage	+36Vdc
Maximum Input Power(CW)	+20dBm
Operating Temp.(at case)	-40°C~70°C
Storage Temperature	-55°C~+125°C

! Stress above these ratings may cause permanent damage to the device



PIN Identifier	Specifications
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +32V
Vcc2	DC Supply +32V
EN	Enable(can be use for pulse modulation)

DRAWN: L. Ma 18/07/22		
ENGINEER: J. Zhu 18/07/22		
APPROVED: C. Chen 18/07/22		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
x	±0.50	[0.019"]
.x	±0.20	[0.008"]
.xx	±0.10	[0.004"]
ANGLES	±1°	

TITLE:
Power Amplifier, 1-2GHz,
Gain 40dB, Output Power
51dBm, +32V, SMA-
Female

PART No.:
TMPA-01000200-4051



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