

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2022/8/13	C. Chen

TECHNICAL DATA

► Specifications(case temperature 25°C@5V)

Frequency Range	6-18GHz
Output Power(P1dB)	15dBm typ
Gain	42±2.0dB max
Gain Flatness	±2.0dB typ
Noise Figure	2.0dB typ
VSWR Input	1.3 min, 1.8 max
VSWR Output	1.3 min, 1.8 max
DC Voltage	+5V typ
Current	160mA typ
Input/Output Connector	SMA-Female
Operating Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°C

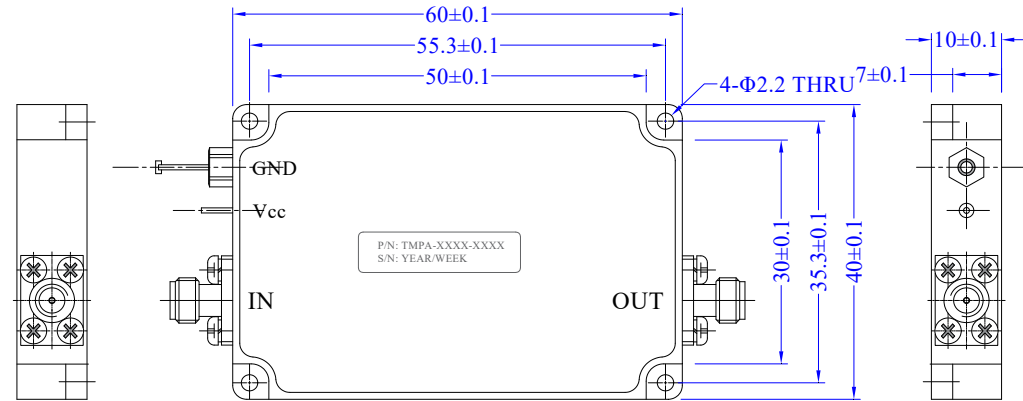
► Measurements Conditions

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	+5.5Vdc
Maximum Input Power(CW)	+10dBm
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
Vcc	DC Supply +5V

DRAWN: L. Ma 13/08/22		
ENGINEER: J. Zhu 13/08/22		
APPROVED: C. Chen 13/08/22		
TOLERANCE UNLESS OTHERWISE SPECIFIED		
x	±0.50	[0.019"]
.x	±0.20	[0.008"]
.xx	±0.10	[0.004"]
ANGLES	±1°	

TITLE:

Low Noise Amplifier, 6-18GHz, Gain 42dB, P1dB 15dBm, Noise Figure 2.0dB, +5V, SMA-Female

PART No.:

TMLA-06001800-4215-20



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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