

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2025/8/20	C. Chen

TECHNICAL DATA

► Electrical Data(@50Ω, 25°C)

Frequency Range	8~12GHz
Output Power(P1dB)	+20dBm min, +22dBm typ
Small Signal Gain	35dB min, 37dB typ
Gain Flatness	±1.0dB typ, ±1.2dB max
Noise Figure	1.5dB typ, 2.5dB max
Impedance	50 Ohms
VSWR	1.8:1 typ, 2:1 max
OIP3	30dBm typ
RF Input Power	+10dBm max
DC Power Supply	+12V/180mA typ

► Mechanical Data

Dimensions	25.35×19.05×9.27mm max
Input Connector	SMA-Female
Output Connector	SMA-Female
12V Power Supply Interface	Feedthru Capacitor
Surface Finish	Gray Painted

► Environmental Data

Operating Temperature	-40℃~+70℃
Storage Temperature	-55℃~+125℃

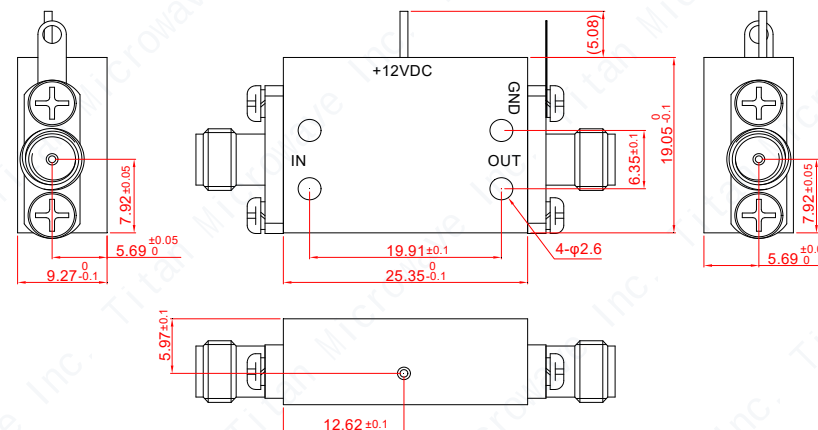
► Absolute Maximum Ratings

Voltage	+9V min, +16V max
RF Input Power(CW)	+16dBm max
Load VSWR Mismatch	4:1 max
Operating Temperature	-54℃~+85℃
Storage Temperature	-65℃~+125℃

★ Exceeding any of these operating limits may cause amplifier damage and/or degraded performance.

Notes:

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



DRAWN: L. Ma 20/08/25		
ENGINEER: J. Zhu 20/08/25		
APPROVED: C. Chen 20/08/25		
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,
8-12GHz, Gain 35dB, P1dB
20dBm, Noise Figure
2.5dB, +12V, SMA-Female

PART No.:
TMLA-08001200-3520-25

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DIMENSIONS IN MILLIMETERS(mm)

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