

REV	DESCRIPTION OF REVISION	By	DATE	APPROVED
A	INITIAL RELEASE	C. Cai	2025/12/23	C. Chen

TECHNICAL DATA

► Electrical Data(@50Ω, 25°C)

Frequency Range	9~10GHz
Output Power(P1dB)	+16dBm min
Small Signal Gain	30dB min, 32dB typ
Gain Flatness	±0.5dB typ
Noise Figure	0.8dB typ, 1.0dB max
Impedance	50 Ohms
VSWR(input/output)	1.8:1 typ, 2:1 max
OIP3	26dBm typ
RF Input Power	+10dBm max
DC Power Supply	+12V/100mA 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, with Mounting Bottom Unpainted

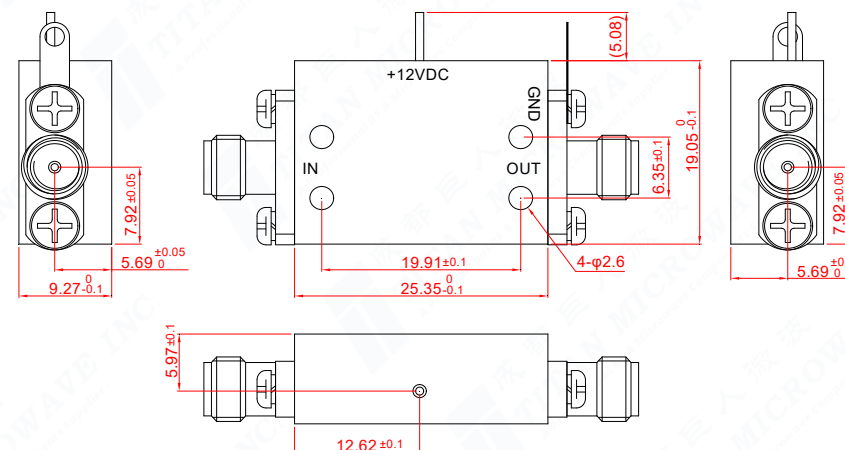
► Environmental Data

Operating Temperature	-40°C~+70°C
Storage Temperature	-55°C~+125°C

► Absolute Maximum Ratings

Voltage	+9V min, +16V max
RF Input Power(CW)	+12dBm max
Load VSWR Mismatch	4:1 max
Operating Temperature	-54°C~+85°C
Storage Temperature	-65°C~+125°C

★ 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 23/12/25			TITLE: Low Noise Amplifier, 9-10GHz, Gain 30dB, P1dB 16dBm, Noise Figure 1.0dB, +12V, SMA-Female		 DIMENSIONS IN MILLIMETERS(mm)							
ENGINEER: J. Zhu 23/12/25												
APPROVED: C. Chen 23/12/25												
TOLERANCE UNLESS OTHERWISE SPECIFIED			PART No.: TMLA-09001000-3016-10		SIZE: A4		SCALE:		SHEET: 1/1		REV: A	
x	±0.50	[0.019"]										
.x	±0.20	[0.008"]										
.xx	±0.10	[0.004"]										
ANGLES	±1°											