

| REV | DESCRIPTION OF REVISION | By     | DATE      | APPROVED |
|-----|-------------------------|--------|-----------|----------|
| A   | INITIAL RELEASE         | C. Cai | 2025/6/30 | C. Chen  |

## TECHNICAL DATA

### ► Electrical Data(50Ω, 25°C)

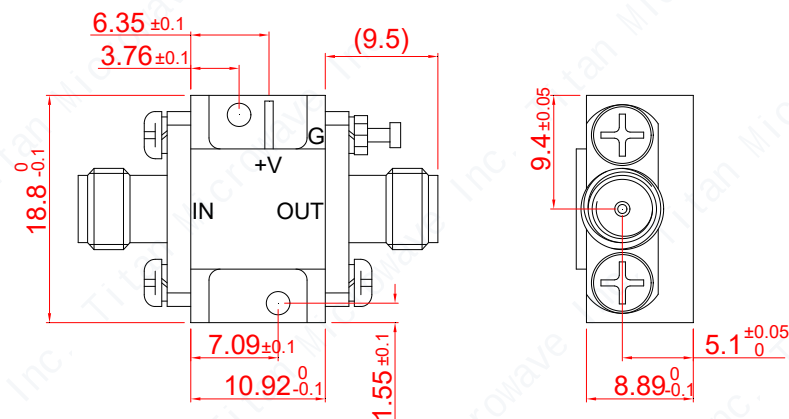
|                    |                         |
|--------------------|-------------------------|
| Frequency Range    | 1160~1610MHz            |
| Small Signal Gain  | 20dB min, 22dB typ      |
| Gain Flatness      | ±0.25dB typ, ±0.5dB max |
| Output Power(P1dB) | +14dBm min              |
| OIP3               | +25dBm min              |
| Noise Figure       | 0.6dB typ, 1.0dB max    |
| Input/Output VSWR  | 1.5:1 typ, 1.8:1 max    |
| Impedance          | 50 Ohms                 |
| Max Input Power    | +10dBm max              |
| Voltage            | +5.5V min, +6V max      |
| Current            | 40mA typ, 60mA max      |

### ► Mechanical Data

|                  |                   |
|------------------|-------------------|
| Dimensions       | 10.92×18.8×8.89mm |
| Input Connector  | SMA-Female        |
| Output Connector | SMA-Female        |
| Surface Finish   | Nickel Plated     |

### ► Environmental Data

|                       |            |
|-----------------------|------------|
| Operating Temperature | -20℃~+85℃  |
| Storage Temperature   | -40℃~+100℃ |



#### Notes:

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

|                                      |       |          |                                                                                                                                     |                                                                                                                                                                                                           |             |        |               |           |
|--------------------------------------|-------|----------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|---------------|-----------|
| DRAWN: L. Ma 30/06/25                |       |          | <div>TITLE:</div> <div>Low Noise Amplifier<br/>1.16-1.61GHz, Gain 20dB,<br/>P1dB 14dBm, Noise Figure<br/>1dB, +6V, SMA-Female</div> | <div><div><div><div></div><div></div></div><div>成都巨人微波</div><div>TITAN MICROWAVE INC.</div><div>A Professional RF &amp; Microwave Components Supplier</div></div><div>www.titan-microwave.com</div></div> |             |        |               |           |
| ENGINEER: J. Zhu 30/06/25            |       |          |                                                                                                                                     | <div><div><div><div></div><div></div></div><div></div><div></div></div><div>DIMENSIONS IN MILLIMETERS(mm)</div></div>                                                                                     | SIZE:<br>A4 | SCALE: | SHEET:<br>1/1 | REV:<br>A |
| APPROVED: C. Chen 30/06/25           |       |          |                                                                                                                                     |                                                                                                                                                                                                           |             |        |               |           |
| TOLERANCE UNLESS OTHERWISE SPECIFIED |       |          |                                                                                                                                     |                                                                                                                                                                                                           |             |        |               |           |
| x                                    | ±0.50 | [0.019"] | <div>PART No.:</div> <div>TMLA-01160161-2014-10</div>                                                                               |                                                                                                                                                                                                           |             |        |               |           |
| .x                                   | ±0.20 | [0.008"] |                                                                                                                                     |                                                                                                                                                                                                           |             |        |               |           |
| .xx                                  | ±0.10 | [0.004"] |                                                                                                                                     |                                                                                                                                                                                                           |             |        |               |           |
| ANGLES                               | ±1°   |          |                                                                                                                                     |                                                                                                                                                                                                           |             |        |               |           |