**Performance characteristics:**

- Frequency band: DC~25GHz
- NF: 1.7dB
- Gain: 15dB
- Input & output return loss: >17dB/>11dB
- Output P1dB: 15dBm
- Output IP3: 30dBm
- Single power supply: +8V@60mA
- Dimension of Chip: 3.12mm×1.38mm×0.1mm

**Short Description:**

This product is GaAs MMIC Low Noise Amplifier Chip with Ultra-Wideband, frequency range covering DC~25GHz, the typical value of NF in the entire band is 1.7dB, using +8 V power supply.

**Electrical parameters:** (TA=25℃, VD=+8V, VG=0.25V)

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Min</th>
<th>Typical</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td></td>
<td></td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>NF</td>
<td>1.2</td>
<td>1.7</td>
<td>3.8</td>
<td>dB</td>
</tr>
<tr>
<td>Gain</td>
<td>14.8</td>
<td>15</td>
<td>15.5</td>
<td>dB</td>
</tr>
<tr>
<td>Input RL</td>
<td>17</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Output RL</td>
<td>11</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
</tbody>
</table>

**Limitations parameters:**

- Input power: +23dBm
- Control voltage: +9V
- Storage temperature: -65℃~150℃
- Operating temperature: -55℃~125℃

**Outline Drawing (Unit: um)**

**Typical test curve**

- Small signal response (25℃)
- Gain Vs Temperature
- NF Vs Temperature
- Output 1dB compression point Vs Temperature
- Output saturation power Vs Temperature
- Output third-order intercept point (25℃)
**user manual:**

1. The gold wire diameter of IN and OUT port is 25um, the optimal length is about 300um;
2. Input and output without blocking;
3. All the port should pay attention to anti-static when use.