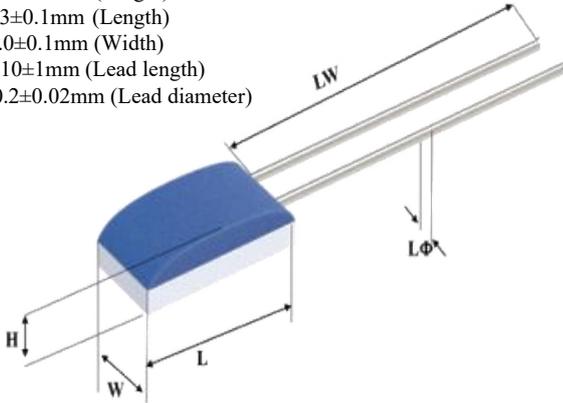


H = 1.0±0.1mm (Height)  
 L = 2.3±0.1mm (Length)  
 W = 2.0±0.1mm (Width)  
 LW = 10±1mm (Lead length)  
 Lφ = 0.2±0.02mm (Lead diameter)



**MAIN FEATURES**

- Pt500 series thin film platinum resistors have the advantages of small size, high precision and good long-term stability.
- It has the characteristics of anti-vibration and anti-shock.
- The product can be subdivided into regular ultra low and high temperature series, covering the temperature range of -70 to 500°C.
- It can be used in many connection ways, such as resistance welding, argon arc welding, pressure welding, brazing and so on.
- Widely used in automotive, instrumentation, household appliances, new energy and other fields.

\*The nominal resistance measurement point is 8mm away from the component body



**TECHNICAL INDEX**

|                               |  |                      |  |
|-------------------------------|--|----------------------|--|
| Performance parameters        | Thin film platinum resistance series   | Component size       | 2.0mmx2.3mmx1.0mm  |
| Lead specifications           | Length:10mm; Diameter:0.2mm  | Lead material        | Platinum nickel wire   |
| Lead tension                  | ≥9N  | Insulation impedance | >100MΩ at 20°C、 > 2MΩ at 500°C                                       |
| Temperature coefficient (TCR) | 3850ppm/°C   | Working current      | 0.1- 0.7mA (Self-heating should be considered)                       |
| Long-term stability           | After 1000 hours at 500°C , the resistance shift of R(0°C) is less than0.04%               |                      |  |
| Response time                 | Water flow(v=0.4m/s) τ <sub>0.5</sub> =0.1s τ <sub>0.9</sub> =0.3s                         | Airflow(v=2m/s)      | τ <sub>0.5</sub> =5s τ <sub>0.9</sub> =15s                           |
| Natural coefficient           | 0°C 0.4°C/mW   | Anti-vibration       | Frequency acceleration ≥40g from 10 to 2000Hz                        |
| Impact resistant              | 8ms half sine wave acceleration ≥100g  | Package              | Vacuum plastic packaging (Provide other packaging forms as required) |
| Others                        | Substrate size, basic resistance value, lead specifications (can be provided upon request) |                      |  |



**REFERENCE SELECTION**

| Type       | Range of application | Classes | R <sub>0</sub> (Ω) | Temperature range | Accuracy         |
|------------|----------------------|---------|--------------------|-------------------|------------------|
| Pt500-N500 | -70~+500°C           | 1/3B    | 500±0.2            | 0~+150°C          | ±(0.1+0.0017 T ) |
|            |                      | A       | 500±0.3            | -50~+300°C        | ±(0.15+0.002 T ) |
|            |                      | B       | 500±0.6            | -70~+500°C        | ±(0.3+0.005 T )  |
|            |                      | 2B      | 500±1.2            | -70~+500°C        | ±(0.6+0.01 T )   |

Note \* : the marked classes and temperature measurement accuracy refer to the IEC60751 standard. T is the measured temperature.