

# SA series, high-precision, Pt-film thermal sensors.



Resistance tolerance of  $\pm 0.06\%$  (class A). Suitable for high-precision temperature measurements up to  $500^{\circ}\text{C}$ . Available in various package for specific needs.

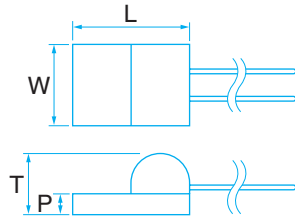
RoHS compliant Completely lead free



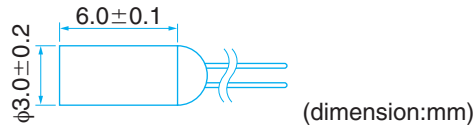
## SPECIFICATIONS

### Mechanical

SA\*\*\*□0  
(glass coat)



SA101□1  
(ceramic tube)



Dimension (Inch Size)	SA101□0 (0907)	SA102□0 (1208)
L	$2.40 \pm 0.15$	$3.00 \pm 0.15$
W	$1.70 \pm 0.15$	$2.00 \pm 0.15$
P	$0.40 \pm 0.20$	$0.40 \pm 0.20$
T	$1.25 \pm 0.20$	$1.25 \pm 0.20$

(unit : mm)

### Electrical

Type	SA***□0		SA101□1
Resistance ( $\Omega$ )	100	1,000	100
Tolerance %(code)	$\pm 0.06\%$ , $\pm 0.12\%$ , $\pm 0.24\%$ (6) (0) (1)		$\pm 0.06\%$ , $\pm 0.12\%$ , $\pm 0.24\%$
TCR ppm / $^{\circ}\text{C}$ (code)	3,850ppm/ $^{\circ}\text{C}$		3,850ppm/ $^{\circ}\text{C}$
TCR Tolerance	$\pm 100\text{ppm}/^{\circ}\text{C}$		$\pm 100\text{ppm}/^{\circ}\text{C}$
Response time 90% in air 1m/sec	10sec.	15sec.	30sec.
Dissipation Constant Self-heating	$2.5\text{mW}/^{\circ}\text{C}$	$2\text{mW}/^{\circ}\text{C}$	$5.0\text{mW}/^{\circ}\text{C}$
Max Applied Current	1mA		1mA
Operating Temp. Range	$-55 \sim 500^{\circ}\text{C}$		$-55 \sim 500^{\circ}\text{C}$

·Contact us for TO92 package(operating Temp.:  $-50 \sim 150^{\circ}\text{C}$ ) and electric wire (operating Temp. :  $-20 \sim 105^{\circ}\text{C}$ )



## PART NUMBER

SA 101 1 1

- Dimensions (0=glass coat, 1=ceramic tube)
- Resistance Tolerance
- Resistance
- Part Code