

SE series, high-precision, chip-type Pt-film thermal sensors.

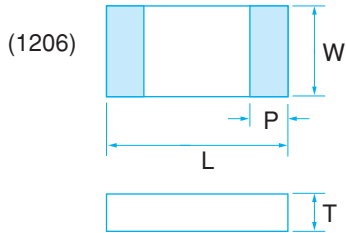


A surface-mount type with an excellent $\pm 0.48\%$ resistance tolerance ideal for high-precision temperature measurement.



SPECIFICATIONS

Mechanical



Dimension (mm)	SE102**
L	3.20 ± 0.20
W	1.60 ± 0.20
P	0.40 ± 0.20
T	0.40 ± 0.20

Equivalent circuit



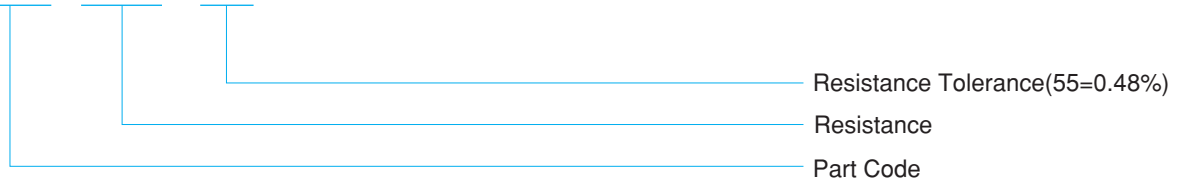
Electrical

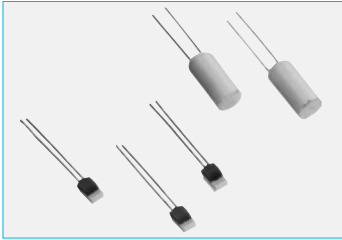
Type	SE10155	SE10255
Resistance	100Ω	1000Ω
Resistance Tolerance	$\pm 0.48\%$	$\pm 0.48\%$
Temperature Coefficient of Resistance	$3850 \pm 100 \text{ppm}/^\circ\text{C}(2)$	$3750 \pm 100 \text{ppm}/^\circ\text{C}(5)$
Rated Current	1mA	1mA
Response time 90% in air 1m/sec	6 sec.	6 sec.
Dissipation Constant Self-heating	$3.5 \text{mW}/^\circ\text{C}$	$10.5 \text{mW}/^\circ\text{C}$
Operating Tem. Range	$-55^\circ\text{C} \sim +125^\circ\text{C}$	$-55^\circ\text{C} \sim +125^\circ\text{C}$
Package	1,000pcs/reel	1,000pcs/reel



PART NUMBER

SE 102 55





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



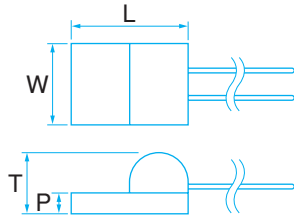
Resistance tolerance of $\pm 0.06\%$ (class A) suitable for high-precision temperature measurements up to 500°C . Available in various package for specific needs.



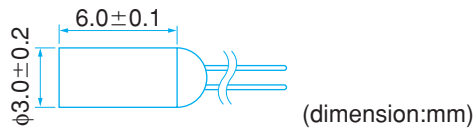
SPECIFICATIONS

Mechanical

SA***□0
(glass coat)



SA101□1
(ceramic tube)



Dimension (mm)	SA101□0	SA102□0
L	2.40 ± 0.15	3.00 ± 0.15
W	1.70 ± 0.15	2.00 ± 0.15
P	0.40 ± 0.20	0.40 ± 0.20
T	1.25 ± 0.20	1.25 ± 0.20

Equivalent circuit



Electrical

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

·Contact us 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