

3500 ppm/K, 1 k Ω Platinum Thin Film RTD



NEW

SDT101 Series

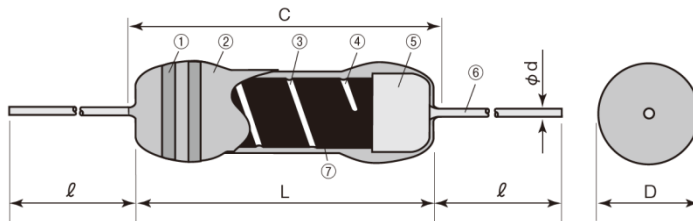


KOA has expanded its range of axial type platinum thin film thermal sensors with the addition of the new SDT101SA device.

These 1kOhm parts are suitable for low directivity heat flow sensor elements in automotive, medical and industrial applications.

The lead wire materials allow easy soldering and lead forming.

Construction



①	Marking (A only)	⑤	Electrode cap
②	Insulation coating	⑥	Lead wire
③	Trimming line	⑦	Platinum thin film
④	Ceramic core		

Type	Dimensions (mm)				
	L ± 0.8	C ± 0.8	D ± 0.2	d ± 0.08	l ± 3
SDT101A	4.0	-	1.6	0.4	30
NEW SDT101SA	-	4.0			
SDT101B	4.0	-	1.5		

Features

- Small size
- Excellent long term stability
- SDT101A, SDT101SA can be soldered easily
- Simple construction - easy forming of lead wires
- Meets EU-RoHS requirements
- AEC-Q200 qualified (SDT101B 500 Ω , SDT101SA)

Application Examples

- Cold junction compensation for thermocouples
- Temperature compensation of measuring instruments, analyzers, air flow meters, etc.
- Flow sensors for automotive, medical and industrial appliances and machinery
- Analytical equipment
- HVAC (heating, ventilation, air conditioning)
- Energy generating industries

Ratings

Type	Size (mm)	Power Rating	Resistance at 0 $^{\circ}\text{C}$	Resistance Tolerance	T.C.R.	T.C.R. Tolerance	Thermal Time Constant	Operating Temperature Range
SDT101A	4.0 x 1.6	0.125 W	10 Ω , 100 Ω , 500 Ω	D: $\pm 0.5\%$, F: $\pm 1\%$	3500 ppm/K	F: $\pm 1\%$, G: $\pm 2\%$	6 sec*1	-55 ~ +150 $^{\circ}\text{C}$
NEW SDT101SA	4.0 x 1.6		1 k Ω	G: $\pm 2\%$		G: $\pm 2\%$		
SDT101B	4.0 x 1.5		10 Ω , 100 Ω , 500 Ω	D: $\pm 0.5\%$, F: $\pm 1\%$		F: $\pm 1\%$, G: $\pm 2\%$	9 sec*1	-55 ~ +300 $^{\circ}\text{C}$

*1 These are reference element values, which vary with connecting or fixing methods

Datasheet



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