



SMD Series

SMD platinum sensor

For the automatic assembling on PCBs

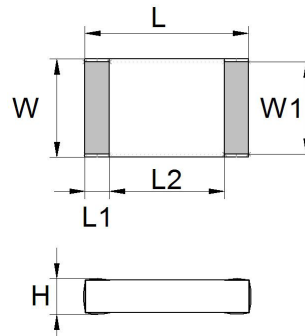


INNOVATIVE SENSOR TECHNOLOGY

Benefits & Characteristics

- Excellent long-term stability
- Low self-heating
- Fast response time
- Class A available
- Customer specific sensor available upon request

Illustration¹⁾



1) For actual size, see dimensions

Technical Data

Operating temperature range:	2P	-50 °C to +150 °C
	3P	-50 °C to +250 °C
	4P	-50 °C to +250 °C
Nominal resistance:*	100 Ω at 0 °C	
	500 Ω at 0 °C	
	1000 Ω at 0 °C	
Characteristics curve:*	3850 ppm/K	
Long term stability:	< 0.04 % at 1000 h at 130 °C	
Tolerance class (dependent on temperature range):*	IEC 60751 F0.15	IST AG reference A
	IEC 60751 F0.3	B
	IEC 60751 F0.6	C
Connection:*	2P	tin-coated (96.5Sn/3Ag/0.5Cu), LMP lead-free, (reflow soldering)
	3P	tin-coated (5Sn/93.5Pb/1.5Ag), HMP, (reflow soldering)
	4P	gold-coated, (solderable coating)
Solderability:	235 °C ≤ 8 s (DIN IEC 68 T2-20, Ta Meth. 1)	
Resistance to soldering heat: ¹⁾	260 °C 10 s (DIN IEC 68 T2-20, Ta Meth. 1A)	

1) The soldering process can influence accuracy



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Recommended applied current: ²⁾	1 mA at 100 Ω
<i>2) Self-heating must be considered</i>	0.5 mA at 500 Ω
	0.3 mA at 1000 Ω

Packaging:	< 100 pcs in bags
	> 100 pcs taped on reel (sensor side up or sensor side down)

* Customer specific alternatives available

Order Information - 2P (tin-coated (96.5Sn/3Ag/0.5Cu), LMP lead-free)

Packed in bags (< 100 pcs)

Size	Dimensions (L / L1 / L2 x W / W1 x H in mm)	F0.15 (class A)	F0.3 (class B)
Nominal resistance: 100 Ω at 0 °C			
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P0K1.0805.2P.A	P0K1.0805.2P.B
Order code		010.01147	010.01146
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P0K1.1206.2P.A	P0K1.1206.2P.B
Order code		010.01131	010.01132

Nominal resistance: 500 Ω at 0 °C			
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P0K5.0805.2P.A	P0K5.0805.2P.B
Order code		010.01153	010.01154
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P0K5.1206.2P.A	P0K5.1206.2P.B
Order code		010.01141	010.01127

Nominal resistance: 1000 Ω at 0 °C			
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P1K0.0805.2P.A	P1K0.0805.2P.B
Order code		010.01157	010.01047
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P1K0.1206.2P.A	P1K0.1206.2P.B
Order code		010.01136	010.01135

Taped on reel - sensor side up or sensor side down (> 100 pcs)

Nominal resistance: 100 Ω at 0 °C			
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P0K1.0805.2P.A.S	P0K1.0805.2P.B.S
Order code	Sensor side up	010.02347	010.02276
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P0K1.1206.2P.A.S	P0K1.1206.2P.B.S
Order code	Sensor side up	010.02233	010.02275
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P0K1.0805.2P.A.S	P0K1.0805.2P.B.S
Order code	Sensor side down	010.01148	010.01126