





SMD Series SMD platinum sensor For the automatic assembling on PCBs





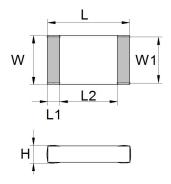


Benefits & Characteristics

- 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
		IST AG reference
Tolerance class (dependent on temperature range):*	IEC 60751 F0.15	А
	IEC 60751 F0.3	В
	IEC 60751 F0.6	C
Connnection:*	1000 Ω at 0 °C 3850 ppm/K < 0.04 % at 1000 h at 130 °C IST AG reference IST AG reference A IEC 60751 F0.15 A IEC 60751 F0.3 B IEC 60751 F0.6 C 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 \leq 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)

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

Packaging: < 100 pcs in bags

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

* Customer-specific alternatives available

Product Photo





Sensor side up

Sensor side down

Product Photo: Sensor in Tape&Reel packaging option















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 resist	tance: 100 Ω at 0 °C		
0805 (±0.2) Order code Former order co	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15) ode	P0K1.0805.2P.A 100613 <i>010.01147</i>	P0K1.0805.2P.B 100612 <i>010.0114</i> 6
1206 (±0.2) Order code Former order co	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15) ode	P0K1.1206.2P.A 100601 <i>010.01131</i>	P0K1.1206.2P.B 100602 <i>010.01132</i>
Nominal resist	tance: 500 Ω at 0 °C		
0805 (±0.2) Order code Former order co	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P0K5.0805.2P.A 100617 <i>010.01153</i>	POK5.0805.2P.B 100618 <i>010.01154</i>
1206 (±0.2) Order code	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P0K5.1206.2P.A 100610	P0K5.1206.2P.B 100598
Former order co	ance: 1000 Ω at 0 °C	010.01141	010.01127
0805 (±0.2) Order code Former order co	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P1K0.0805.2P.A 100620 <i>010.01157</i>	P1K0.0805.2P.B 100565 <i>010.01047</i>
Order code Former order co		P1K0.1206.2P.A 100606 <i>010.01136</i>	P1K0.1206.2P.B 100605 <i>010.01135</i>
	tance: 10'000 Ω at 0 °C 2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)		P10K.1206.2P.B.S 101464

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

Nominal resistance: 100 Ω at 0 °C

Former order code

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	101020	100986
Former order code		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		100964	100985
Former order code		010.02233	010.02275

010.03058













Size	Dimensions (L / L1 / L2 x W / W1 x H in mm)	F0.15 (class A)	F0.3 (class B)
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	100614	100597
Former order c	ode	010.01148	010.01126
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 down	100583	100584
Former order c	ode	010.01104	010.01105

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.S	P0K5.0805.2P.B.S
Order code	Sensor side down		100619
Former order o	rode	010.01156	010.01155
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P0K5.1206.2P.A.S	P0K5.1206.2P.B.S
Order code	Sensor side down	100611	100591
Former order o	rode	010.01142	010.01117

Nominal resistance: 1000 Ω at 0 $^{\circ}\text{C}$

0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P1K0.0805.2P.A.S	P1K0.0805.2P.B.S
Order code	Sensor side up	100965	100966
Former order o	rode	010.02235	010.02236
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P1K0.1206.2P.A.S	P1K0.1206.2P.B.S
Order code		100957	100958
Former order code Sensor side up		010.02224	010.02229
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P1K0.0805.2P.A.S	P1K0.0805.2P.B.S
Order code	Sensor side down	100621	100596
Former order o	rode	010.01158	010.01125
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P1K0.1206.2P.A.S	P1K0.1206.2P.B.S
Order code		100585	100586
Former order o	rode Sensor side down	010.01106	010.01107

Order Information - 3P (tin-coated (5Sn/93.5Pb/1.5Ag), HMP)

Packed in bags (< 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)	P0K1.0805.3P.A	POK1.0805.3P.B
Order code		100499	100500
Former order code		010.00928	010.00929
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P0K1.1206.3P.A	P0K1.1206.3P.B
Former order co	ode	010.00166	010.00165













Size	Dimensions (L / L1 / L2 x W / W1 x H in mm)	F0.15 (class A)	F0.3 (class B)
Nominal resist	tance: 500 Ω at 0 °C		
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P0K5.0805.3P.A	P0K5.0805.3P.B
Order code			150632
Former order co	ode	010.00934	010.00935
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P0K5.1206.3P.A	POK5.1206.3P.B
Order code		100342	100239
Former order co	ode	010.00403	010.00208
Nominal resist	tance: 1000 Ω at 0 $^{\circ}$ C		
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P1K0.0805.3P.A	P1K0.0805.3P.B
Order code		100495	100496
Former order co	ode	010.00922	010.00923
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P1K0.1206.3P.A	P1K0.1206.3P.B
Order code		100316	100313
Former order co	ode	010.00326	010.00323
Taped on reel -	sensor side up or sensor side down (> 100 pcs)		
	tance: 100 Ω at 0 °C		
	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	POK1.0805.3P.A.S	POK1.0805.3P.B.S
	Sensor side down	100616	100615
Former order co		010.01150	010.01149
	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	Upon request	P0K1.1206.3P.B.S
Former order co	ode Sensor side down		010.01145
Nominal resist	tance: 500 Ω at 0 °C		
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	Upon request	P0K5.0805.3P.B.S
Order code	Sensor side down		150631
Former order co	ode		010.01152
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	P0K5.1206.3P.A.S	POK5.1206.3P.B.S
Order code	Sensor side down		
Former order co	ode	010.01144	010.01143
	tance: 1000 Ω at 0 °C		
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.45 (±0.15)	P1K0.0805.3P.A.S	P1K0.0805.3P.B.S
Order code	Sensor side down		100622
Former order co		010.01160	010.01159
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.45 (±0.15)	Upon request	P1K0.1206.3P.B.S

Order code Former order code

Sensor side down

100564

010.01043















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 resist	tance: 100 Ω at 0 °C			
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.4 (±0.15)	P0K1.0805.4P.A	P0K1.0805.4P.B	
Order code		100501	100502	
Former order co	ode	010.00930	010.00931	
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.4 (±0.15)	P0K1.1206.4P.A 100212	P0K1.1206.4P.B 100211	
Former order co	ode	010.00169	010.00168	
Nominal resist	tance: 500 Ω at 0 °C			
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.4 (±0.15)	P0K5.0805.4P.A	P0K5.0805.4P.B	
Order code		100503	100504	
Former order co	ode	010.00936	010.00937	
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.4 (±0.15)	P0K5.1206.4P.A 100343	P0K5.1206.4P.B 100240	
Former order co	ode	010.00404	010.00209	
Nominal resist	tance: 1000 Ω at 0 °C			
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.4 (±0.15)	P1K0.0805.4P.A	P1K0.0805.4P.B	
Order code		100498	100497	
Former order co	ode	010.00925	010.00924	
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.4 (±0.15)	P1K0.1206.4P.A	P1K0.1206.4P.B	
		100317	100314	
Former order co	ode	010.00327	010.00324	
Taped on reel -	Taped on reel - sensor side up or sensor side down (> 100 pcs)			
Nominal resist	Nominal resistance: 100 Ω at 0 $^{\circ}$ C			

NOIIIIIai resisi	ance. 100 sz at 0 C		
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.4 (±0.15)	P0K1.1206.4P.A.S	Upon request
Order Code		101100	
Former order co	ode Sensor side up	010.02501	

Nominal resistance: 1000 Ω at 0 °C

0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.4 (±0.15)	P1K0.0805.4P.A.S	Upon request
Order Code		101201	
Former order code Sensor side up		010.02679	
0805 (±0.2)	1.9 / 0.25 / 1.3 x 1.25 / 1.15 x 0.4 (±0.15)	P1K0.0805.4P.A.S	P1K0.0805.4P.B.S
Order Code		101159	101165
Former order code Sensor side down		010.02605	010.02619
1206 (±0.2)	2.9 / 0.35 / 2.2 x 1.5 / 1.35 x 0.4 (±0.15)	P1K0.1206.4P.A.S	Upon request
Former order code Sensor side up		010.02441	







Additional Documents



Document name: ATP_E Application Note:









Order Information SMD platinum sensor Secondary reference







