600 °C Series

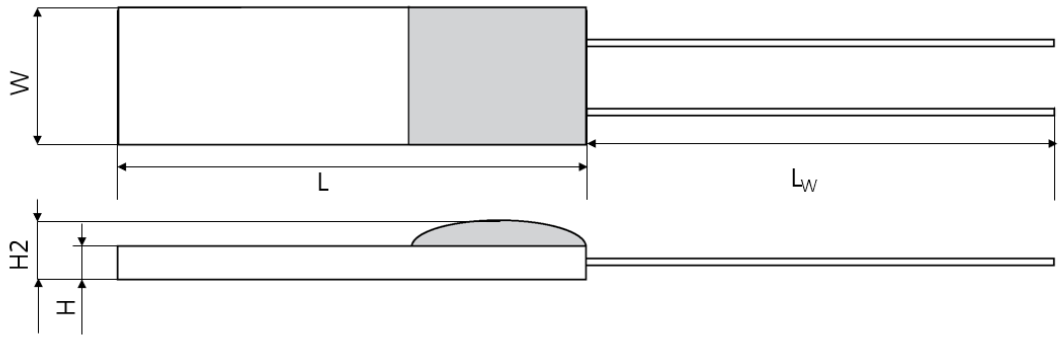
Platinum temperature sensor with wires

For high temperatures

Benefits & characteristics

- Excellent long-term stability
- Low self-heating
- Fast response time
- Small dimensions
- Vibration and temperature shock resistant
- Paired sensors available
- 1/5 IEC and 1/10 IEC available
- Customer-specific sensor available upon request

Illustration [1)]



H = Substrate Hight H2 =Hight W = Width L = Length L_W = Wire length

Dimension tolerances:	W ±0.2 mm, L ±0.2 mm, H ±0.1 mm, H2 ±0.3 mm, LW (up to 30 mm) ±1 mm

[1)] for actual size see dimensions in order information

Technical Data

Operating temperature range:	-200 °C to +600 °C
Nominal resistance:*	100 Ω at 0 °C 100 Ω at 0 °C 500 Ω at 0 °C 1000 Ω at 0 °C 2000 Ω at 0 °C
Characteristics curve:*	3850 ppm/K
Long-term stability:	< 0.04 % at 1000 h at maximal operating temperature
Tolerance class: * (dependent on temperature range)	**iST reference** IEC 60751 F0.15 — A IEC 60751 F0.3 — B IEC 60751 F0.6 — C IEC 60751 F0.1 — Y
Connection:*	Pt-cladded Ni-wire, Ø 0.2 mm (solderable, weldable, crimpable, brazeable)
Design: [2)]	ESD optimized
Alternative wire construction:*	Inverted wired
Recommended applied current:[3)]	1 mA at 100 Ω 0.6 mA at 200 Ω 0.5 mA at 500 Ω 0.3 mA at 1000 Ω 0.2 mA at 2000 Ω
3) Self-heating must be considered	
Other alternatives: *	▪ Housed in round ceramics (for dry environments only) - see data sheet DTP_Round_Housing_E ▪ Grouped and paired ▪ Substrate thickness

* Customer-specific alternatives available

Order Information

Nominal Resistance at 0 °C	Size	Dimensions (L x W x H / H2 in mm) L ±0.2, W ±0.2, H ±0.1, H2 ±0.3 mm	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
6W (Pt-cladded Ni-wire, Ø 0.2 mm)							
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.1 (class Y)	101371	P0K1.161.6W.Y.007	7	
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.15 (class A)	100945	P0K1.161.6W.A.007	7	
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.3 (class B)	100946	P0K1.161.6W.B.007	7	
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.1 (class Y)	155582	P0K1.161.6W.Y.010	10	2) ESD optimized
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.15 (class A)	154366	P0K1.161.6W.A.010	10	2) ESD optimized
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.3 (class B)	154367	P0K1.161.6W.B.010	10	2) ESD optimized
500 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.1 (class Y)	100219	P0K5.161.6W.Y.010	10	
500 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.15 (class A)	100218	P0K5.161.6W.A.010	10	
500 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.3 (class B)	100217	P0K5.161.6W.B.010	10	
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.1 (class Y)	100247	P1K0.161.6W.Y.010	10	
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.15 (class A)	100246	P1K0.161.6W.A.010	10	
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.3 (class B)	100245	P1K0.161.6W.B.010	10	
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	153442	P0K1.202.6W.Y.007	7	2) ESD optimized
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.15 (class A)	153741	P0K1.202.6W.A.007	7	2) ESD optimized
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.3 (class B)	153742	P0K1.202.6W.B.007	7	2) ESD optimized
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.3 (class B)	155716	P0K1.202.6W.B.007.S	7	packaged in blister of 500 pcs
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	155762	P0K1.202.6W.Y.010	10	2) ESD optimized
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.15 (class A)	155763	P0K1.202.6W.A.010	10	2) ESD optimized
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.3 (class B)	155764	P0K1.202.6W.B.010	10	2) ESD optimized
500 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	On request	P0K5.202.6W.Y.007	7	
500 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.15 (class A)	On request	P0K5.202.6W.A.007	7	
500 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.3 (class B)	101108	P0K5.202.6W.B.007	7	
1000 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	155770	P1K0.202.6W.Y.007	7	2) ESD optimized
1000 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.15 (class A)	154721	P1K0.202.6W.A.007	7	2) ESD optimized
1000 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.3 (class B)	155771	P1K0.202.6W.B.007	7	2) ESD optimized
1000 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	155774	P1K0.202.6W.Y.010	10	2) ESD optimized
1000 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.15 (class A)	155773	P1K0.202.6W.A.010	10	2) ESD optimized
1000 Ω	202	1.8 x 2.0 x 0.65 / 1.1	F0.3 (class B)	155772	P1K0.202.6W.B.010	10	2) ESD optimized

Nominal Resistance at 0 °C	Size	Dimensions (L x W x H / H2 in mm) L ±0.2, W ±0.2, H ±0.1, H2 ±0.3 mm	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
100 Ω	216	2.5 x 1.6 x 0.65 / 1.3	F0.1 (class Y)	101401	P0K1.216.6W.Y.007	7	
100 Ω	216	2.5 x 1.6 x 0.65 / 1.3	F0.15 (class A)	100589	P0K1.216.6W.A.007 P	7	
100 Ω	216	2.5 x 1.6 x 0.65 / 1.3	F0.3 (class B)	100599	P0K1.216.6W.B.007	7	
100 Ω	216	2.5 x 1.6 x 0.65 / 1.3	F0.1 (class Y)	100429	P0K1.216.6W.Y.010	10	
100 Ω	216	2.5 x 1.6 x 0.65 / 1.3	F0.15 (class A)	100414	P0K1.216.6W.A.010	10	
100 Ω	216	2.5 x 1.6 x 0.65 / 1.3	F0.3 (class B)	100419	P0K1.216.6W.B.010	10	
1000 Ω	216	2.5 x 1.6 x 0.65 / 1.3	F0.1 (class Y)	101042	P1K0.216.6W.Y.010	10	
1000 Ω	216	2.5 x 1.6 x 0.65 / 1.3	F0.15 (class A)	100588	P1K0.216.6W.A.010	10	
1000 Ω	216	2.5 x 1.6 x 0.65 / 1.3	F0.3 (class B)	100552	P1K0.216.6W.B.010	10	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	100579	P0K1.232.6W.Y.007	7	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.15 (class A)	152671	P0K1.232.6W.A.007	7	2) ESD optimized
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.3 (class B)	152672	P0K1.232.6W.B.007	7	2) ESD optimized
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	154005	P0K1.232.6W.Y.010	10	2) ESD optimized
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.15 (class A)	154004	P0K1.232.6W.A.010	10	2) ESD optimized
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.3 (class B)	154000	P0K1.232.6W.B.010	10	2) ESD optimized
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	101357	P0K1.232.6W.Y.020	20	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.15 (class A)	101356	P0K1.232.6W.A.020	20	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.3 (class B)	100875	P0K1.232.6W.B.020	20	
500 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	100223	P0K5.232.6W.Y.010	10	
500 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.15 (class A)	100222	P0K5.232.6W.A.010	10	
500 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.3 (class B)	100221	P0K5.232.6W.B.010	10	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	100545	P1K0.232.6W.Y.007	7	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.15 (class A)	100830	P1K0.232.6W.A.007	7	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.3 (class B)	100546	P1K0.232.6W.B.007	7	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	153765	P1K0.232.6W.Y.010	10	2) ESD optimized
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.15 (class A)	153766	P1K0.232.6W.A.010	10	2) ESD optimized
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.3 (class B)	153768	P1K0.232.6W.B.010	10	2) ESD optimized
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.1 (class Y)	On request	P1K0.232.6W.Y.020	20	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.15 (class A)	151322	P1K0.232.6W.A.020	20	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.3 (class B)	100550	P1K0.232.6W.B.020	20	

Nominal Resistance at 0 °C	Size	Dimensions (L x W x H / H2 in mm) L ±0.2, W ±0.2, H ±0.1, H2 ±0.3 mm	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
200 Ω	420	4.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	On request	P0K2.420.6W.Y.010	10	
200 Ω	420	4.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	On request	P0K2.420.6W.A.010	10	
200 Ω	420	4.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	104300	P0K2.420.6W.B.010	10	
1000 Ω	420	4.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	On request	P1K0.420.6W.Y.007	7	
1000 Ω	420	4.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	101077	P1K0.420.6W.A.007	7	
1000 Ω	420	4.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	101093	P1K0.420.6W.B.007	7	
1000 Ω	420	4.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	On request	P1K0.420.6W.Y.010	10	
1000 Ω	420	4.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	101288	P1K0.420.6W.A.010	10	
1000 Ω	420	4.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	101129	P1K0.420.6W.B.010	10	
100 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.1 (class Y)	On request	P0K1.516.6W.Y.007	7	
100 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.15 (class A)	100835	P0K1.516.6W.A.007	7	
100 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.3 (class B)	100836	P0K1.516.6W.B.007	7	
100 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.1 (class Y)	100148	P0K1.516.6W.Y.010	10	
100 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.15 (class A)	100147	P0K1.516.6W.A.010	10	
100 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.3 (class B)	100146	P0K1.516.6W.B.010	10	
500 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.1 (class Y)	100229	P0K5.516.6W.Y.010	10	
500 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.15 (class A)	100228	P0K5.516.6W.A.010	10	
500 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.3 (class B)	100227	P0K5.516.6W.B.010	10	
1000 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.1 (class Y)	On request	P1K0.516.6W.Y.007	7	
1000 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.15 (class A)	100828	P1K0.516.6W.A.007	7	
1000 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.3 (class B)	100829	P1K0.516.6W.B.007	7	
1000 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.1 (class Y)	100270	P1K0.516.6W.Y.010	10	
1000 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.15 (class A)	100269	P1K0.516.6W.A.010	10	
1000 Ω	516	5.0 x 1.6 x 0.65 / 1.3	F0.3 (class B)	100268	P1K0.516.6W.B.010	10	
100 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	100165	P0K1.520.6W.Y.010	10	
100 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	100163	P0K1.520.6W.A.010	10	
100 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100162	P0K1.520.6W.B.010	10	
500 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	100235	P0K5.520.6W.Y.010	10	
500 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	100234	P0K5.520.6W.A.010	10	
500 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100233	P0K5.520.6W.B.010	10	

Nominal Resistance at 0 °C	Size	Dimensions (L x W x H / H2 in mm) L ±0.2, W ±0.2, H ±0.1, H2 ±0.3 mm	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	156115	P1K0.520.6W.Y.010	10	2) ESD optimized
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	156116	P1K0.520.6W.A.010	10	2) ESD optimized
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	156117	P1K0.520.6W.B.010	10	2) ESD optimized
2000 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	On request	P2K0.520.6W.Y.010	10	
2000 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	On request	P2K0.520.6W.A.010	10	
2000 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100322	P2K0.520.6W.B.010	10	
100 Ω	538	5.0 x 3.8 x 0.65 / 1.3	F0.1 (class Y)	On request	P0K1.538.6W.Y.010	10	
100 Ω	538	5.0 x 3.8 x 0.65 / 1.3	F0.15 (class A)	100785	P0K1.538.6W.A.010	10	
100 Ω	538	5.0 x 3.8 x 0.65 / 1.3	F0.3 (class B)	100541	P0K1.538.6W.B.010	10	
1000 Ω	538	5.0 x 3.8 x 0.65 / 1.3	F0.1 (class Y)	On request	P1K0.538.6W.Y.010	10	
1000 Ω	538	5.0 x 3.8 x 0.65 / 1.3	F0.15 (class A)	On request	P1K0.538.6W.A.010	10	
1000 Ω	538	5.0 x 3.8 x 0.65 / 1.3	F0.3 (class B)	100336	P1K0.538.6W.B.010	10	
1000 Ω	505	5.0 x 5.0 x 0.65 / 1.3	F0.1 (class Y)	On request	P1K0.505.6W.Y.010	10	
1000 Ω	505	5.0 x 5.0 x 0.65 / 1.3	F0.15 (class A)	On request	P1K0.505.6W.A.010	10	
1000 Ω	505	5.0 x 5.0 x 0.65 / 1.3	F0.3 (class B)	101208	P1K0.505.6W.B.010	10	
100 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	100202	P0K1.102.6W.Y.010	10	
100 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	100201	P0K1.102.6W.A.010	10	
100 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100200	P0K1.102.6W.B.010	10	
500 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	On request	P0K5.102.6W.Y.010	10	
500 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	100238	P0K5.102.6W.A.010	10	
500 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100237	P0K5.102.6W.B.010	10	
1000 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	On request	P1K0.102.6W.Y.007	7	
1000 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	On request	P1K0.102.6W.A.007	7	
1000 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100474	P1K0.102.6W.B.007	7	
1000 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	100308	P1K0.102.6W.Y.010	10	
1000 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	100473	P1K0.102.6W.A.010	10	
1000 Ω	102	10.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100307	P1K0.102.6W.B.010	10	

Nominal Resistance at 0 °C	Size	Dimensions (L x W x H / H2 in mm) L ±0.2, W ±0.2, H ±0.1, H2 ±0.3 mm	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
6W (Pt-cladded Ni-wire, Ø 0.2 mm, bent 90°), inverted wires							
100 Ω	232	2.3 x 2 x 1.1	F0.15 (class A)	101143	P0K1.232.6W.A.010.U.S	10	inverted wires
100 Ω	232	2.3 x 2 x 1.1	F0.3 (class B)	100975	P0K1.232.6W.B.010.U.S	10	inverted wires
PU (TCR = 3750 ppm/K)							
100 Ω	232	2.2 x 2.0 x 0.65 / 1.1	F0.3 (class B)	100260	PU1K0.232.6W.B.010	10	
6W (Pt-cladded Ni-wire, Ø 0.2 mm), D (substrate thickness, 0.4 mm)							
100 Ω	232	2.3 x 2.0 x 0.4 / 1.05	F0.1 (class Y)	On request	P0K1.232.6W.Y.010.D	10	substrate thickness 4 mm
100 Ω	232	2.3 x 2.0 x 0.4 / 1.05	F0.15 (class A)	100463	P0K1.232.6W.A.010.D	10	substrate thickness 4 mm
100 Ω	232	2.3 x 2.0 x 0.4 / 1.05	F0.3 (class B)	100462	P0K1.232.6W.B.010.D	10	substrate thickness 4 mm
1000 Ω	232	2.3 x 2.0 x 0.4 / 1.05	F0.1 (class Y)	On request	P0K1.232.6W.Y.010.D.S	10	substrate thickness 4 mm
1000 Ω	232	2.3 x 2.0 x 0.4 / 1.05	F0.15 (class A)	On request	P0K1.232.6W.A.010.D.S	10	substrate thickness 4 mm
1000 Ω	232	2.3 x 2.0 x 0.4 / 1.05	F0.3 (class B)	154038	P0K1.232.6W.B.010.D.S	10	substrate thickness 4 mm
100 Ω	516	5.0 x 1.6 x 0.4 / 1.05	F0.1 (class Y)	On request	P0K1.516.6W.Y.010.D	10	substrate thickness 4 mm
100 Ω	516	5.0 x 1.6 x 0.4 / 1.05	F0.15 (class A)	100334	P0K1.516.6W.A.010.D	10	substrate thickness 4 mm
100 Ω	516	5.0 x 1.6 x 0.4 / 1.05	F0.3 (class B)	100333	P0K1.516.6W.B.010.D	10	substrate thickness 4 mm
1000 Ω	516	5.0 x 1.6 x 0.4 / 1.05	F0.1 (class Y)	100340	P1K0.516.6W.Y.010.D	10	substrate thickness 4 mm
1000 Ω	516	5.0 x 1.6 x 0.4 / 1.05	F0.15 (class A)	100442	P1K0.516.6W.A.010.D	10	substrate thickness 4 mm
1000 Ω	516	5.0 x 1.6 x 0.4 / 1.05	F0.3 (class B)	100339	P1K0.516.6W.B.010.D	10	substrate thickness 4 mm
100 Ω	520	5.0 x 2.0 x 0.4 / 1.05	F0.1 (class Y)	On request	P0K1.520.6W.Y.010.D	10	substrate thickness 4 mm
100 Ω	520	5.0 x 2.0 x 0.4 / 1.05	F0.15 (class A)	100169	P0K1.520.6W.A.010.D	10	substrate thickness 4 mm
100 Ω	520	5.0 x 2.0 x 0.4 / 1.05	F0.3 (class B)	100167	P0K1.520.6W.B.010.D	10	substrate thickness 4 mm
100 Ω	102	10.0 x 2.0 x 0.4 / 1.0	F0.1 (class Y)	On request	P0K1.102.6W.Y.010.D	10	substrate thickness 4 mm
100 Ω	102	10.0 x 2.0 x 0.4 / 1.0	F0.15 (class A)	100855	P0K1.102.6W.A.010.D	10	substrate thickness 4 mm
100 Ω	102	10.0 x 2.0 x 0.4 / 1.0	F0.3 (class B)	100337	P0K1.102.6W.B.010.D	10	substrate thickness 4 mm
1000 Ω	102	10.0 x 2.0 x 0.4 / 1.0	F0.1 (class Y)	On request	P1K0.102.6W.Y.010.D	10	substrate thickness 4 mm
1000 Ω	102	10.0 x 2.0 x 0.4 / 1.0	F0.15 (class A)	100310	P1K0.102.6W.A.010.D	10	substrate thickness 4 mm
1000 Ω	102	10.0 x 2.0 x 0.4 / 1.0	F0.3 (class B)	100309	P1K0.102.6W.B.010.D	10	substrate thickness 4 mm

Nominal Resistance at 0 °C	Size	Dimensions (L x W x H / H2 in mm) L ±0.2, W ±0.2, H ±0.1, H2 ±0.3 mm	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
6W (Pt-cladded Ni-wire, Ø 0.2 mm), T (substrate thickness, 0.25 mm)							
100 Ω	232	2.3 x 2.0 x 0.25 / 0.9	F0.1 (class Y)	100121	P0K1.232.6W.Y.010.T	10	substrate thickness 0.25 mm
100 Ω	232	2.3 x 2.0 x 0.25 / 0.9	F0.15 (class A)	100120	P0K1.232.6W.A.010.T	10	substrate thickness 0.25 mm
100 Ω	232	2.3 x 2.0 x 0.25 / 0.9	F0.3 (class B)	100119	P0K1.232.6W.B.010.T	10	substrate thickness 0.25 mm
1000 Ω	232	2.3 x 2.0 x 0.25 / 0.9	F0.1 (class Y)	On request	P1K0.232.6W.Y.007.T	7	substrate thickness 0.25 mm
1000 Ω	232	2.3 x 2.0 x 0.25 / 0.9	F0.15 (class A)	101593	P1K0.232.6W.A.007.T	7	substrate thickness 0.25 mm
1000 Ω	232	2.3 x 2.0 x 0.25 / 0.9	F0.3 (class B)	101586	P1K0.232.6W.B.007.T	7	substrate thickness 0.25 mm
7W[3]) (Pt-wire, Ø 0.2 mm), D (substrate thickness, 0.4 mm)							
200 Ω	516	5.0 x 1.6 x 0.4 / 1.05	F0.1 (class Y)	On request	P0K2.516.7W.Y.007.D	7	substrate thickness 4 mm
200 Ω	516	5.0 x 1.6 x 0.4 / 1.05	F0.15 (class A)	150635	P0K2.516.7W.A.007.D	7	substrate thickness 4 mm
200 Ω	516	5.0 x 1.6 x 0.4 / 1.05	F0.3 (class B)	100880	P0K2.516.7W.B.007.D	7	substrate thickness 4 mm
7W[3]) (Pt-wire, Ø 0.2 mm, (161) (232) (520) / Ø 0.15 mm (308))							
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.1 (class Y)	On request	P0K1.161.7W.Y.010	10	substrate thickness 0.25 mm
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.15 (class A)	100465	P0K1.161.7W.A.010	10	substrate thickness 0.25 mm
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.3 (class B)	100446	P0K1.161.7W.B.010	10	substrate thickness 0.25 mm
100 Ω	232	2.3 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	100895	P0K1.232.7W.Y.010	10	
100 Ω	232	2.3 x 2.0 x 0.65 / 1.3	F0.15 (class A)	100511	P0K1.232.7W.A.010	10	
100 Ω	232	2.3 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100341	P0K1.232.7W.B.010	10	
100 Ω	308	3.0 x 0.8 x 0.25 / 0.6	F0.1 (class Y)	100561	P0K1.308.7W.Y.007	7	substrate thickness 0.25 mm
100 Ω	308	3.0 x 0.8 x 0.25 / 0.6	F0.15 (class A)	100537	P0K1.308.7W.A.007	7	substrate thickness 0.25 mm
100 Ω	308	3.0 x 0.8 x 0.25 / 0.6	F0.3 (class B)	100538	P0K1.308.7W.B.007	7	substrate thickness 0.25 mm
100 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	On request	P0K1.520.7W.A.010	10	
100 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.15 (class A)	On request	P0K1.520.7W.A.010	10	
100 Ω	520	5.0 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100170	P0K1.520.7W.B.010	10	

3) Operating temperature range of -200 °C to +600 °C

Nominal Resistance at 0 °C	Size	Dimensions (L x W x H / H2 in mm) L ±0.2, W ±0.2, H ±0.1, H2 ±0.3 mm	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
7W[4] (Pt-wire, Ø 0.15 mm)							
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.1 (class Y)	On request	P1K0.161.7W.Y.007	7	substrate thickness 0.25 mm
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.15 (class A)	101114	P1K0.161.7W.A.007	7	substrate thickness 0.25 mm
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.3 (class B)	101115	P1K0.161.7W.B.007	7	substrate thickness 0.25 mm
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.1 (class Y)	On request	P1K0.161.7W.Y.010	10	substrate thickness 0.25 mm
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.15 (class A)	100757	P1K0.161.7W.A.010	10	substrate thickness 0.25 mm
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6	F0.3 (class B)	100759	P1K0.161.7W.B.010	10	substrate thickness 0.25 mm
1000 Ω	232	2.3 x 2.0 x 0.65 / 1.3	F0.1 (class Y)	On request	P1K0.232.7W.Y.010	10	
1000 Ω	232	2.3 x 2.0 x 0.65 / 1.3	F0.15 (class A)	100766	P1K0.232.7W.A.010	10	
1000 Ω	232	2.3 x 2.0 x 0.65 / 1.3	F0.3 (class B)	100258	P1K0.232.7W.B.010	10	
100 Ω	308	3.0 x 0.8 x 0.25 / 0.6	1/10 F0.3 (class K)	100969	P0K1.308.7W.K.007	7	substrate thickness 0.25 mm
1000 Ω	308	3.0 x 0.8 x 0.25 / 0.6	F0.1 (class Y)	100725	P1K0.308.7W.Y.007	7	substrate thickness 0.25 mm
1000 Ω	308	3.0 x 0.8 x 0.25 / 0.6	F0.15 (class A)	100514	P1K0.308.7W.A.007	7	substrate thickness 0.25 mm
1000 Ω	308	3.0 x 0.8 x 0.25 / 0.6	F0.3 (class B)	100432	P1K0.308.7W.B.007	7	substrate thickness 0.25 mm

3) Operating temperature range of -200 °C to +600 °C
4) Operating temperature range of -200 °C to +600 °C
5) 1/10 IEC 60751 in the range of +15 °C to +35 °C

Additional documents

Application note	Document name:	ATP_E

Order Information

Platinum Sensor - Secondary reference

Material

P	=	Platinum

TCR

	=	Pt 3850 ppm/K	G	=	Pt 3911 ppm/K
U	=	Pt 3750 ppm/K	W	=	Pt 3850 ppm/K (extended operating temperature range in class A)

Resistance in Ω at 0°C

Size in mm

Operating temperature range

1	=	-50 °C to + 150 °C	6	=	-200°C to + 600 °C
2	=	-50 °C to + 200 °C	7	=	-200 °C to + 750 °C
3	=	-200 °C to + 300 °C	8	=	-200 °C to + 850 °C
4	=	-200 °C to + 400 °C	10	=	-70 °C to + 1000 °C

Connections

S	=	SIL	FK	=	Flat wire customer specific
I	=	Insulated wire	SW	=	Perpendicular wire
K	=	Extended wire	L	=	Insulated stranded wire
W	=	Wire	E	=	Enameled Cu-wire
FW	=	Flat wire	SE	=	Perpendicular enamelded CU-wire

Tolerance class

A	=	IEC 60751 F0.15	K	=	Customer-specific
B	=	IEC 60751 F0.3	P	=	Pair
C	=	IEC 60751 F0.6	G	=	Group
Y	=	IEC 60751 F0.1			

Wire length in mm

Special

T	=	Substrate thickness 0.25 mm	M	=	Metallized backside
D	=	Substrate thickness 0.38 mm	U	=	Inverted welding
R	=	Round housing	S	=	Special
W	=	Sintered powder			

P		0K1.	520.	6	W.	A.	007.	D

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