



400 °C Series



Platinum sensor with wires

For medium temperatures



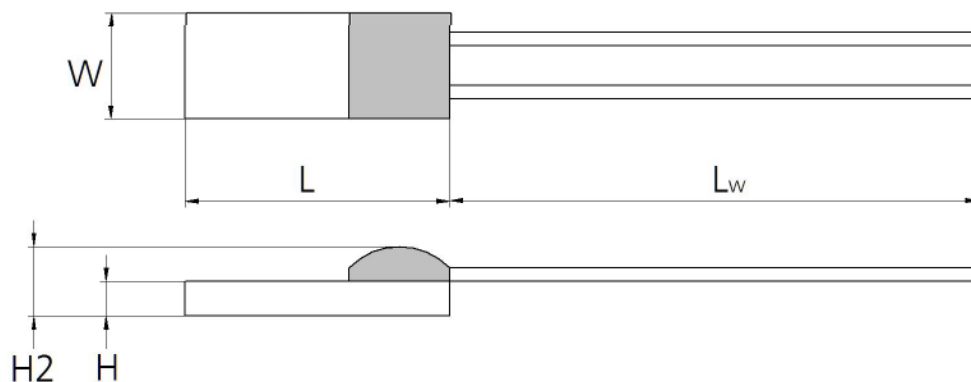
Benefits & characteristics



- Outstanding long-term stability
- Excellent solderability
- Low self-heating
- Vibration and temperature shock resistant
- Paired and grouped sensors available
- 1/5 DIN and 1/10 DIN
- Customer-specific sensor available upon request



Illustration ¹⁾



Dimension tolerances: $W \pm 0.2 \text{ mm}$, $L \pm 0.2 \text{ mm}$, $H \pm 0.1 \text{ mm}$, $H2 \pm 0.3 \text{ mm}$,
 $L_w \text{ (up to 30 mm)} \pm 1 \text{ mm}$

¹⁾ for actual size see dimensions in order information



Technical Data



Operating temperature range: -200 °C to +400 °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 maximal operating temperature



Tolerance class: * **iST reference**
(dependent on temperature range)



IEC 60751 F0.15 A



IEC 60751 F0.3 B



IEC 60751 F0.6 C



IEC 60751 F0.1 Y

1/5 IEC 60751 F0.3 K*

1/10 IEC 60751 F0.3 K*

Connection:* Ag-wire, Ø 0.25 mm (solderable, weldable)

Alternative wire construction:*
Perpendicular wires
Inverted wires

Wire insulation
1) Azurro 1.1 @ 0.65 mm blue
2) P23 1.2 @ 0.65 mm green

Recommended applied current:
1 mA at 100 Ω
0.5 mA at 500 Ω
0.3 mA at 1000 Ω

1)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	Size	Dimensions (L x W x H / H2; L _w in mm)	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
4W (Ag-wire, Ø 0.25 mm)							
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.1 (class Y)	100129	P0K1.161.4W.Y.010	10	
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.15 (class A)	100128	P0K1.161.4W.A.010	10	
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.3 (class B)	100127	P0K1.161.4W.B.010	10	
500 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.1 (class Y)	100216	P0K5.161.4W.Y.010	10	
500 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.15 (class A)	100215	P0K5.161.4W.A.010	10	
500 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.3 (class B)	100214	P0K5.161.4W.B.010	10	
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.1 (class Y)	100244	P1K0.161.4W.Y.010	10	
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.15 (class A)	100243	P1K0.161.4W.A.010	10	
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.3 (class B)	100242 ²⁾	P1K0.161.4W.B.010	10	
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1; 7.0	F0.1 (class Y)	On request	P0K1.202.4W.Y.007	7	
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1; 7.0	F0.15 (class A)	On request	P0K1.202.4W.A.007	7	
100 Ω	202	1.8 x 2.0 x 0.65 / 1.1; 7.0	F0.3 (class B)	101457 ¹⁾	P0K1.202.4W.B.007	7	
150 Ω	202	1.8 x 2.0 x 0.65 / 1.1; 10.0	F0.1 (class Y)	On request	P150.202.4W.Y.010	10	
150 Ω	202	1.8 x 2.0 x 0.65 / 1.1; 10.0	F0.15 (class A)	On request	P150.202.4W.A.010	10	
150 Ω	202	1.8 x 2.0 x 0.65 / 1.1; 10.0	F0.3 (class B)	101548 ¹⁾	P150.202.4W.B.010	10	
350 Ω	202	1.8 x 2.0 x 0.65 / 1.1; 10.0	F0.1 (class Y)	On request	P350.202.4W.Y.010	10	
350 Ω	202	1.8 x 2.0 x 0.65 / 1.1; 10.0	F0.15 (class A)	On request	P350.202.4W.A.010	10	
350 Ω	202	1.8 x 2.0 x 0.65 / 1.1; 10.0	F0.3 (class B)	101549 ¹⁾	P350.202.4W.B.010	10	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 7.0	F0.1 (class Y)	On request	P0K1.232.4W.Y.007	7	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 7.0	F0.15 (class A)	100107 ²⁾	P0K1.232.4W.A.007	7	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 7.0	F0.3 (class B)	100106 ²⁾	P0K1.232.4W.B.007	7	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	100105	P0K1.232.4W.Y.010	10	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	100103 ²⁾	P0K1.232.4W.A.010	10	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	100101 ²⁾	P0K1.232.4W.B.010	10	
500 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	On request	P0K5.232.4W.Y.010	10	
500 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	100437	P0K5.232.4W.A.010	10	
500 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	100436 ²⁾	P0K5.232.4W.B.010	10	



Nominal Resistance	Size	Dimensions (L x W x H / H2; L _w in mm)	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 7.0	F0.1 (class Y)	On request	P1K0.232.4W.Y.007	7	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 7.0	F0.15 (class A)	100831	P1K0.232.4W.A.007	7	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 7.0	F0.3 (class B)	100832 ²⁾	P1K0.232.4W.B.007	7	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1; 7.0	F0.1 (class Y)	On request	P1K0.232.4W.Y.007	7	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1; 7.0	F0.15 (class A)	101710 ¹⁾	P1K0.232.4W.A.007	7	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.1; 7.0	F0.3 (class B)	101711 ¹⁾	P1K0.232.4W.B.007	7	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	On request	P1K0.232.4W.Y.010	10	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	101582 ¹⁾	P1K0.232.4W.A.010	10	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	101583 ¹⁾	P1K0.232.4W.B.010	10	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	100253 ¹⁾	P1K0.232.4W.Y.010	10	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	On request	P1K0.232.4W.A.010	10	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	On request	P1K0.232.4W.B.010	10	
100 Ω	216	2.4 x 1.7 x 0.65 / 1.1; 7.0	F0.1 (class Y)	On request	P0K1.216.4W.Y.007	7	
100 Ω	216	2.4 x 1.7 x 0.65 / 1.1; 7.0	F0.15 (class A)	On request	P0K1.216.4W.A.007	7	
100 Ω	216	2.4 x 1.7 x 0.65 / 1.1; 7.0	F0.3 (class B)	101605 ¹⁾	P0K1.216.4W.B.007	7	
100 Ω	216	2.4 x 1.7 x 0.65 / 1.2; 15.0	F0.1 (class Y)	On request	P0K1.216.4W.Y.015	15	
100 Ω	216	2.4 x 1.7 x 0.65 / 1.2; 15.0	F0.15 (class A)	101217 ¹⁾	P0K1.216.4W.A.015	15	
100 Ω	216	2.4 x 1.7 x 0.65 / 1.2; 15.0	F0.3 (class B)	101216 ¹⁾	P0K1.216.4W.B.015	15	
100 Ω	516	5.0 x 1.6 x 0.65 / 1.2; 10.0	F0.1 (class Y)	On request	P0K1.516.4W.Y.010	10	
100 Ω	516	5.0 x 1.6 x 0.65 / 1.2; 10.0	F0.15 (class A)	On request	P0K1.516.4W.A.010	10	
100 Ω	516	5.0 x 1.6 x 0.65 / 1.2; 10.0	F0.3 (class B)	On request	P0K1.516.4W.B.010	10	
500 Ω	516	5.0 x 1.6 x 0.65 / 1.2; 15.0	F0.1 (class Y)	On request	P0K5.516.4W.Y.015	15	
500 Ω	516	5.0 x 1.6 x 0.65 / 1.2; 15.0	F0.15 (class A)	100225	P0K5.516.4W.A.015	15	
500 Ω	516	5.0 x 1.6 x 0.65 / 1.2; 15.0	F0.3 (class B)	On request	P0K5.516.4W.B.015	15	
1000 Ω	516	5.0 x 1.6 x 0.65 / 1.2; 10.0	F0.1 (class Y)	100267	P1K0.516.4W.Y.010	10	
1000 Ω	516	5.0 x 1.6 x 0.65 / 1.2; 10.0	F0.15 (class A)	100265	P1K0.516.4W.A.010	10	
1000 Ω	516	5.0 x 1.6 x 0.65 / 1.2; 10.0	F0.3 (class B)	100263 ²⁾	P1K0.516.4W.B.010	10	
100 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	100160	P0K1.520.4W.Y.010	10	
100 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	100158	P0K1.520.4W.A.010	10	
100 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	100156	P0K1.520.4W.B.010	10	



Nominal Resistance	Size	Dimensions (L x W x H / H2; L _w in mm)	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
500 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	On request	P0K5.520.4W.Y.010	10	
500 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	100508	P0K5.520.4W.A.010	10	
500 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	100435 ²⁾	P0K5.520.4W.B.010	10	
500 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 15.0	F0.1 (class Y)	100232	P0K5.520.4W.Y.015	15	
500 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 15.0	F0.15 (class A)	100231	P0K5.520.4W.A.015	15	
500 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 15.0	F0.3 (class B)	100230 ²⁾	P0K5.520.4W.B.015	15	
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	100276	P1K0.520.4W.Y.010	10	
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	100274	P1K0.520.4W.A.010	10	
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	100272 ²⁾	P1K0.520.4W.B.010	10	
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.3; 40.0	F0.1 (class Y)	On request	P1K0.520.4W.Y.040	40	
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.3; 40.0	F0.15 (class A)	On request	P1K0.520.4W.A.040	40	
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.3; 40.0	F0.3 (class B)	On request	P1K0.520.4W.B.040	40	
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.1; 1000.0	F0.1 (class Y)	On request	P1K0.520.4W.Y.1000	1000	
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.1; 1000.0	F0.15 (class A)	101479 ¹⁾	P1K0.520.4W.A.1000	1000	
1000 Ω	520	5.0 x 2.0 x 0.65 / 1.1; 1000.0	F0.3 (class B)	On request	P1K0.520.4W.B.1000	1000	
100 Ω	538	5.0 x 3.9 x 0.65 / 1.2; 10.0	F0.1 (class Y)	On request	P0K1.538.4W.Y.010	10	
100 Ω	538	5.0 x 3.9 x 0.65 / 1.2; 10.0	F0.15 (class A)	100180	P0K1.538.4W.A.010	10	
100 Ω	538	5.0 x 3.9 x 0.65 / 1.2; 10.0	F0.3 (class B)	100179 ²⁾	P0K1.538.4W.B.010	10	
1000 Ω	538	5.0 x 3.9 x 0.65 / 1.2; 10.0	F0.1 (class Y)	On request	P1K0.538.4W.Y.010	10	
1000 Ω	538	5.0 x 3.9 x 0.65 / 1.2; 10.0	F0.15 (class A)	100332 ²⁾	P1K0.538.4W.A.010	10	
1000 Ω	538	5.0 x 3.9 x 0.65 / 1.2; 10.0	F0.3 (class B)	100331	P1K0.538.4W.B.010	10	
100 Ω	505	5.0 x 5.0 x 0.65 / 1.3; 10.0	F0.1 (class Y)	On request	P0K1.505.4W.Y.010	10	
100 Ω	505	5.0 x 5.0 x 0.65 / 1.3; 10.0	F0.15 (class A)	On request	P0K1.505.4W.A.010	10	
100 Ω	505	5.0 x 5.0 x 0.65 / 1.3; 10.0	F0.3 (class B)	On request	P0K1.505.4W.B.010	10	
1000 Ω	505	5.0 x 5.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	On request	P1K0.505.4W.Y.010	10	
1000 Ω	505	5.0 x 5.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	On request	P1K0.505.4W.A.010	10	
1000 Ω	505	5.0 x 5.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	100296 ²⁾	P1K0.505.4W.B.010	10	
100 Ω	102	10.0 x 2.0 x 0.65 / 1.3; 10.0	F0.1 (class Y)	100198	P0K1.102.4W.Y.010	10	
100 Ω	102	10.0 x 2.0 x 0.65 / 1.3; 10.0	F0.15 (class A)	100196	P0K1.102.4W.A.010	10	
100 Ω	102	10.0 x 2.0 x 0.65 / 1.3; 10.0	F0.3 (class B)	100194 ²⁾	P0K1.102.4W.B.010	10	



Nominal Resistance	Size	Dimensions (L x W x H / H2; L _w in mm)	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
500 Ω	102	10.0 x 2.0 x 0.65 / 1.3; 10.0	F0.1 (class Y)	On request	P0K5.102.4W.Y.010	10	
500 Ω	102	10.0 x 2.0 x 0.65 / 1.3; 10.0	F0.15 (class A)	101014	P0K5.102.4W.A.010	10	
500 Ω	102	10.0 x 2.0 x 0.65 / 1.3; 10.0	F0.3 (class B)	101019 ²⁾	P0K5.102.4W.B.010	10	
1000 Ω	102	10.0 x 2.0 x 0.65 / 1.3; 10.0	F0.1 (class Y)	100306	P1K0.102.4W.Y.010	10	
1000 Ω	102	10.0 x 2.0 x 0.65 / 1.3; 10.0	F0.15 (class A)	100303 ²⁾	P1K0.102.4W.A.010	10	
1000 Ω	102	10.0 x 2.0 x 0.65 / 1.3; 10.0	F0.3 (class B)	100301	P1K0.102.4W.B.010	10	

4SW (Ag-wire, Ø 0.25 mm, perpendicular wire)

100 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.1 (class Y)	On request	P0K1.161.4SW.Y.010	10	
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.15 (class A)	100587	P0K1.161.4SW.A.010	10	
100 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.3 (class B)	100412 ²⁾	P0K1.161.4SW.B.010	10	
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.1 (class Y)	On request	P1K0.161.4SW.Y.010	10	
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.15 (class A)	100401	P1K0.161.4SW.A.010	10	
1000 Ω	161	1.6 x 1.2 x 0.25 / 0.6; 10.0	F0.3 (class B)	100327	P1K0.161.4SW.B.010	10	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	100930	P0K1.232.4SW.Y.010	10	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	100630	P0K1.232.4SW.A.010	10	
100 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	100734	P0K1.232.4SW.B.010	10	
500 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.1 (class Y)	On request	P0K5.232.4SW.Y.010	10	
500 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.15 (class A)	On request	P0K5.232.4SW.A.010	10	
500 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 10.0	F0.3 (class B)	100397	P0K5.232.4SW.B.010	10	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 15.0	F0.1 (class Y)	On request	P1K0.232.4SW.Y.015	15	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 15.0	F0.15 (class A)	100399	P1K0.232.4SW.A.015	15	
1000 Ω	232	2.2 x 2.0 x 0.65 / 1.2; 15.0	F0.3 (class B)	100254	P1K0.232.4SW.B.015	15	

308 (with Ag-wire, Ø 0.15 mm)

100 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 10.0	F0.1 (class Y)	On request	P0K1.308.4W.Y.010	10	
100 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 10.0	F0.15 (class A)	101533	P0K1.308.4W.A.010	10	
100 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 10.0	F0.3 (class B)	101532	P0K1.308.4W.B.010	10	
1000 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 10.0	F0.1 (class Y)	On request	P1K0.308.4W.Y.010	10	
1000 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 10.0	F0.15 (class A)	101529	P1K0.308.4W.A.010	10	
1000 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 10.0	F0.3 (class B)	101528	P1K0.308.4W.B.010	10	



Nominal Resistance	Size	Dimensions (L x W x H / H2; L _w in mm)	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
1000 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 60.0	F0.1 (class Y)	On request	P1K0.308.4W.Y.060	60	
1000 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 60.0	F0.15 (class A)	101531	P1K0.308.4W.A.060	60	
1000 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 60.0	F0.3 (class B)	101530	P1K0.308.4W.B.060	60	
100 Ω	308	3.0 x 0.8 x 0.25 / 0.6; 18.0	F0.1 (class Y)	On request	P0K1.308.4W.Y.018	18	
100 Ω	308	3.0 x 0.8 x 0.25 / 0.6; 18.0	F0.15 (class A)	On request	P0K1.308.4W.A.018	18	
100 Ω	308	3.0 x 0.8 x 0.25 / 0.6; 18.0	F0.3 (class B)	On request	P0K1.308.4W.B.018	18	

308 (with FKS-wire, Ø 0.15 mm, suitable for Ø 1.0 mm)

100 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 10.0	F0.1 (class Y)	101547	P0K1.308.4W.Y.010.S	10	
100 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 10.0	F0.15 (class A)	On request	P0K1.308.4W.A.010.S	10	
100 Ω	308	2.9 x 0.8 x 0.25 / 0.6; 10.0	F0.3 (class B)	On request	P0K1.308.4W.B.010.S	10	

Additional Documents

Application Note

Document name: APT_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 enameled 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. | 308. | 4 | W. | B. | 010. | S



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