Platinum Temperature Sensors

TEMPERATURE

8W – Product Series		Temperature Range: -200°C+850°C							
Platinum temperature sensor elements with wire connections									
Technical Data									
Specification:	DIN EN 60751								
Temperature range:	-200°C to +850°C								
Temperature Coefficient:	TCR = 3850 ppm/K								
Tolerance Classes:	F 0.1 (Class Y) F 0.15 (Class A) F 0.3 (Class B) F 0.6 (Class C)	-50°C to +150°C -90°C to +300°C -200°C to +850°C -200°C to +850°C							
	1/5 F 0.3 (Class K) 1/10 F 0.3 (Class K)	on request on request							
Leads:	Platinum wire connection ($\emptyset = 0.2 \text{ mm}$) Recommended connection technology: Soldering, Welding, Crimping								
Lead Lengths:	7 mm								





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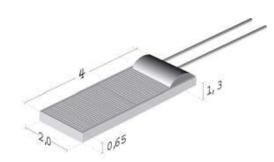
8W – Product Series

Temperature Range: -200°C...+850°C

8W 420

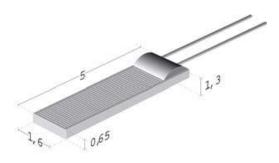
TEMPERATURE

Dimensions, LxW:	4.0 x 2.0 mm			
Nominal Resistance at 0°C (ohm):	200			
Measuring Current (mA):	200 Ω: 0.8			



8W 516

Dimensions, LxW:	5.0 x 1.6 mm	
Nominal Resistance at 0°C (ohm):	100/1000	
Self Heating (mK):	Water (v= 0 m/s) Air (v= 0 m/s)	$\Delta T_w = 1.3 \text{ at } 0^{\circ}\text{C}$ $\Delta T_a = 14 \text{ at } 0^{\circ}\text{C}$
Response Time (s):	Water (v= 0.4 m/s)	$T_{0.5} = 0.25$ $T_{0.63} = 0.3$ $T_{0.9} = 0.7$
	Air (v= 1 m/s)	$T_{0.5} = 5.5$ $T_{0.63} = 7.5$ $T_{0.9} = 16$
Measuring Current (mA):	100 Ω: 1 1000 Ω: 0.3	



Order Example:	Ρ	1K0.	516.	8	W.	В.	007
	1	2	3	4	5	6	7

- 1. Material Identification = Platinum temperature sensor
- 2. Resistance Value in ohm = $1000\Omega / 0^{\circ}C$
- 3. Chip Dimension = $2.3 \times 2.0 \text{ mm}$
- 4. Temperature Range = $-200^{\circ}C$ to $+850^{\circ}C$
- 5. Extension = Wire Connections
- 6. Tolerance Class = DIN EN 60751 F 0.3 (former Class B)
- 7. Connection length = 7 mm



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