



Nickel Temperature Sensors

2FW – Product Series

Temperature Range: -60°C ... $+200^{\circ}\text{C}$

Nickel temperature sensor elements with flat wire (FW) connections

Technical Data

Specification:	DIN 43760
Temperature range:	-60°C to $+200^{\circ}\text{C}$
Temperature Coefficient:	4280 ppm/K (NC series) 5000 ppm/K (NL series) 5696 ppm/K (NM series) 6180 ppm/K (ND series) 6370 ppm/K (NJ series) 6720 ppm/K (NA series)
Tolerance Classes:	Class A -60°C to $+200^{\circ}\text{C}$ Class B -60°C to $+200^{\circ}\text{C}$
Leads:	Ni/Au wire, 0.2 x 0.4 mm (H x W) Recommended connection technology: Soldering, Welding, Crimping
Lead Lengths:	7 mm
Long-term stability:	Max. Drift = Less than 0.1% after 1000h at max. operating temperature
Notes:	Other TCRs on request



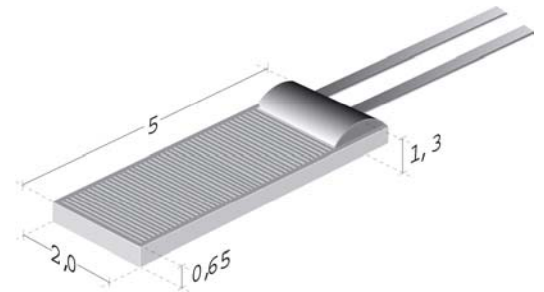
INNOVATIVE SENSOR TECHNOLOGY

2FW – Product Series

Temperature Range: $-60^{\circ}\text{C} \dots +200^{\circ}\text{C}$

2FW 520

Dimensions, LxW:	5.0 x 2.0 mm	
Nominal Resistance at 0°C (ohm):	500/1000	
Self Heating (mK):	Water (v= 0 m/s)	$\Delta T_w = 1.1$ at 0°C
	Air (v= 0 m/s)	$\Delta T_a = 12.9$ at 0°C
Response Time (s):	Water (v= 0.4 m/s)	$T_{0.5} = 0.25$ $T_{0.63} = 0.3$ $T_{0.9} = 0.75$
	Air (v= 1 m/s)	$T_{0.5} = 6$ $T_{0.63} = 8.5$ $T_{0.9} = 18$
Measuring Current:	500 Ω : 0.5 mA (max. 3 mA) 1000 Ω : 0.3 mA (max. 2 mA)	



Order Example: **N** **D** **1K0.** **520.** **2** **FW.** **B.**
 1 2 3 4 5 6 7

1. Material Identification = Nickel temperature sensor
2. Characteristic Curve = 6180 ppm/K
3. Resistance Value in ohm = 1000 Ω / 0°C
4. Chip Dimension = 5.0 x 2.0 mm
5. Temperature Range = -60°C to $+200^{\circ}\text{C}$
6. Extension = Flat Wire
7. Tolerance Class = DIN 43760 Class B



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