



NB1854.520._.K.0

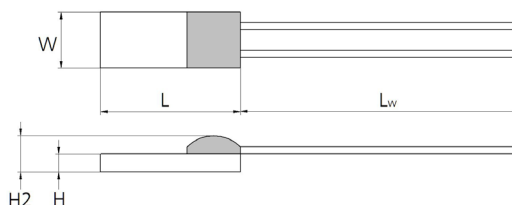
Nickel sensor with wires

For medium temperatures

Benefits & Characteristics

- Excellent long-term stability
- Simple linearization
- Vibration and temperature shock resistant
- Easy interchangeability

Illustration

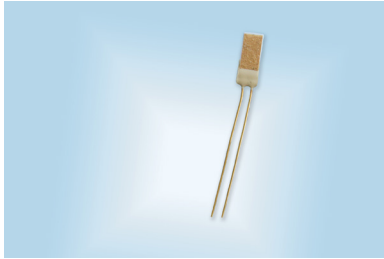


Technical Data

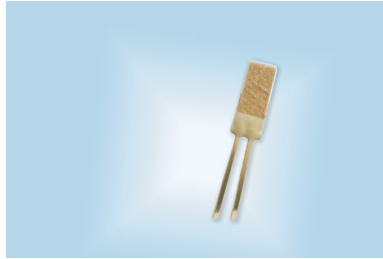
Operating temperature range:	-60 °C to +200 °C
Nominal resistance:	1854 Ω at 0 °C
Characteristics curve:	4334 ppm/K
Long-term stability:	< 0.1 % R ₀ at 1000 h at maximal operating temperature
Tolerance:	± (0.62 + 0.02 x T - RT)°C maximum between -55°C and 150°C with R - RT = absolute value of the difference between the temperature T in °C and the reference temperature (RT=20°C)
Temperature dependence of resistivity:	-55°C to + 150 °C: $R(T) = R_0 (1 + A \cdot T + B \cdot T^2)$ A= 3.839 * 10 ⁻³ * °C ⁻¹ , B= 4.945 * 10 ⁻⁶ * °C ⁻² , R ₀ = resistance value in Ω at T= 0°C T = temperature in accordance with ITS90
Dimensions in mm (L x W x H/H2):	4.9 x 2.0 x 0.65 / 1.1
Tolerance (chip):	L ±0.2 mm, W ±0.2 mm, H2 ±0.3 mm; Lw ± 1 mm
Connection:	- Gold plated Nickel wire (Ni/Au), Ø 0.2 mm, Lw 15 mm - Gold plated Nickel flat wire, 0.2x0.4 mm (thickness x width), Lw 7 mm - Silver plated Copper wire (Cu/Ag), Ø 0.404 mm (AWG26), H2 1.2 mm, Lw 15 mm Other connection variants on request
Measuring current:	0.2 mA (self-heating must be considered)



Product Photos



NB1854.520.2K.K.015



NB1854.520.2FW.K.007



NB1854.520.2W.K.015

Order Information

Description:	Lead wire	Order code
NB1854.520.2K.K.015	Ni/Au, Ø 0.2 mm, length 15 mm	104887
NB1854.520.2FW.K.007	Ni/Au flat wire, 0.2x0.4 mm (thickness x width), length 7 mm	104886
NB1854.520.2W.K.015	Cu/Ag, Ø 0.404 mm (AWG26), H2 1.2 mm, length 15 mm	150265

Additional documents

	Document name
Application note	ATN_E



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