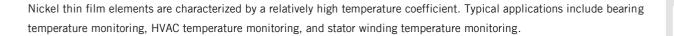


Nickel Thin Film Temperature Sensor

Temperature range -60 °C to +250 °C



Nominal Resistance Ro	Tolerance	Order number
120 Ohms @ 0 °C	As per 2 X DIN 43760	5117711

Nominal Resistance 120 Ohms @ 0 °C

Specification ANSI

Temperature Range -60 °C to +250 °C*

Temperature Coefficient 6720 ppm/K

Lead wire material Nickel

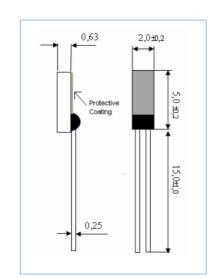
Protective coating high-temperature epoxy

Self-heating 0,3K/mW in air

Response time Water (v = 0,2m/sec.) $t_{0,9} = 0,3$ sec.

Air (v= 1m/sec.) $t_{0,9} = 9$ sec.

Operating Current, Maximum 5 mA



Polynomial of the resistive characteristic:

 $R(9) = R_0 x (1 + 5.88x10^{-3}x9 + 7.872x10^{-6}x9^2 + 4.71x10^{-9}x9^3)$

Maximum permissible tolerance as a function of temperature (accuracy defined as 2 x DIN 43760):

 $9<0^{\circ}\text{C:}F = \pm (0.8 + 0.056 \times 9)^{\circ}\text{C}$ $9>0^{\circ}\text{C:}F = \pm (0.8 + 0.014 \times 9)^{\circ}\text{C}$

California Proposition 65

WARNING: This product can expose you to chemicals including lead oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm, and including cobalt oxide, nickel and cobalt, which are known to the State of California to cause cancer. For more information go to www.pbswarnings.ca.gov.

*At temperatures above 180 Deg. C. tensile loads on connection wires must be avoided for proper function.



The information provided in this data sheet describes certain technical characteristics of the product, but shall not be qualified or construed as quality guarantees whatsoever. Furthermore, the information provided in this data sheet does not constitute a warranty, implied or express, whatsoever, including but not limited to warranties of merchantability, fitness for a particular purpose, or use.

The information provided in this data sheet regarding measurement values (including, but not limited to, response time, long-term stability, vibration and shock resistance, insulation resistance and self-heating) are average values that have been obtained under laboratory conditions in tests of large numbers of the product. Product results or measurements achieved by customer or any other person in any production, test, or other environment may vary depending on the specific conditions of use.

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