

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Nickel Thin Film Temperature Sensor

Nickel thin film elements are characterized by a relatively high temperature coefficient. Typical applications include bearing temperature monitoring, HVAC temperature monitoring, and stator winding temperature monitoring

Nominal Resistance R ₀	Accuracy	Part Number
120 ohms at 0 °C	2 X DIN 43760	100 485-4

Specification ANSI

Temperature Range -60 °C to +250 °C*

Temperature Coefficient 6720ppm/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.

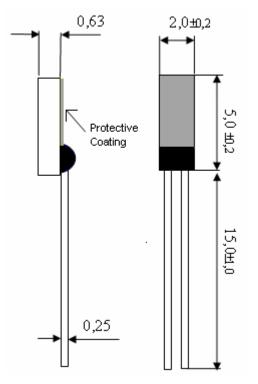
Operating Current, Maximum 5 mA

Polynomial of the resistive characteristic:

 $R(\vartheta) = R_0 \times (1 + 5.88 \times 10^{-3} \times \vartheta + 7.872 \times 10^{-6} \times \vartheta^2 + 4.71 \times 10^{-9} \times \vartheta^3)$

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

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



All technical data serves as a guideline and does not guarantee any particular properties to the product.

Heraeus Sensor Technology USA

770 Township Line Road, Suite 300 Yardley, PA 19067 USA Phone 1-215-944-9010 Fax 1-215-944-9392 Email info.hst-us@heraeus.com www.hst-us.com

Status: 06/16 HST-USA

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