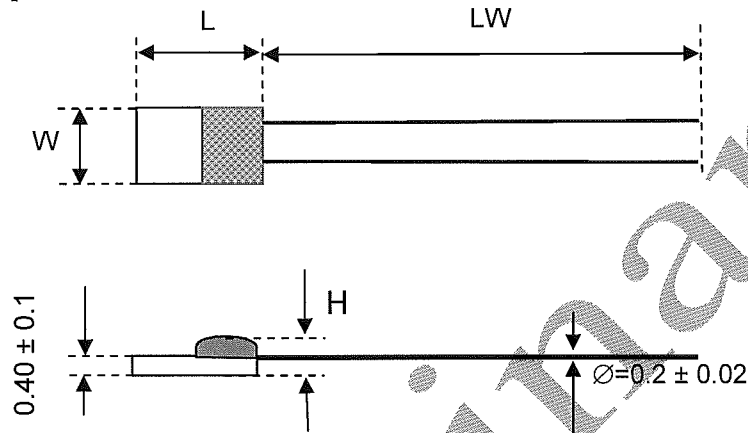


Dimensions [mm]:



GENERAL SPECIFICATIONS:

TYPE: **PW0K1.216.7W...007**

NOMINAL RESISTANCE: 100.0 Ohm @ 0°C

TEMP. COEFFICIENT: 3850 ppm/K

TEMPERATURE DEPENDENCE OF RESISTIVITY
 $R = 100 * (1 + A * T + B * T^2 + C * (T - 100) * T^3)$ for $T < 0^\circ\text{C}$
 $R = 100 * (1 + A * T + B * T^2)$ for $T > 0^\circ\text{C}$
 R = Resistance in ohm

$A = 3.9083E^{-3} [^\circ\text{C}^{-1}]$, $B = -5.775E^{-7} [^\circ\text{C}^{-2}]$, $C = -4.183E^{-12} [^\circ\text{C}^{-3}]$

T[°C]: temperature in accordance with ITS90

Special Feature: The really true DIN EN60751 T/R curve

WORKING TEMPERATURE RANGE: -200°C to +600°C continuous operation (600°C to 750°C for maximum one hour, once a life time)

TOLERANCE:

$ \Delta T \leq 0.30 \pm 0.005 * T $	(Class B)	PW0K1.216.7W.B.007
$ \Delta T \leq 0.15 \pm 0.002 * T $	(Class A)	PW0K1.216.7W.A.007
$ \Delta T \leq 0.10 \pm 0.0017 * T $	(Class 1/3 B)	PW0K1.216.7W.Y.007

ΔT = temperature error in K
 (other tolerances on request)

CLASSIFICATION TEMPERATURE RANGE:

DIN EN 60751, Class B	-200°C to +600°C
DIN EN 60751, Class A	-200°C to +600°C
DIN EN 60751, Class 1/3 B	temperature range on request

DIMENSIONS (mm): L = 2.5 +/- 0.2, W = 1.5 +/- 0.2, H = 1.1 +/- 0.2, LW = 7 +/- 1.0

LEAD WIRES: Pt-wires, \varnothing 0.2 mm, 7 mm length

LONG TERM STABILITY: 0.05% after 1000 hrs at 600°C

MEASURING CURRENT: 0.3 to max. 1.0 mA recommended

HYSTERESIS: 0.005% max. in the range of -200°C to +400°C

	Title	Name	Signature	Date
DRAWN	BD Manager	D. Neher	<i>D. Neher</i>	09.06.2009
APPROVED	Tech. Director	J. Holoubek	<i>J. Holoubek</i>	09.06.2009
QS	QS Manager	A. Polak	<i>A. Polak</i>	09.06.2009



INNOVATIVE SENSOR TECHNOLOGY