

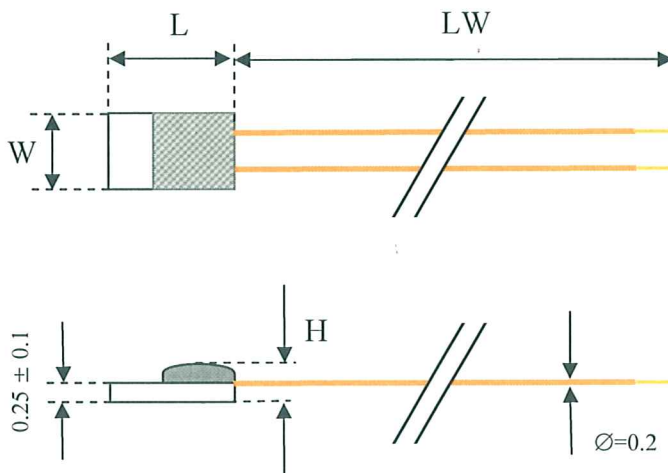


INNOVATIVE SENSOR TECHNOLOGY

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IST AG	Platin thin film RTD		1E
	IST AG Part No.: 010.00707		Drawing No. Z1172.09.10 en
	Rev.	Date	Page
	-	12.10.09	1

Dimensions [mm]:



GENERAL SPECIFICATIONS:

TYPE:	P0K1.161.1E.B.200								
NOMINAL RESISTANCE:	100 Ohm @ 0°C								
TEMP. COEFFICIENT:	3850 ppm/K								
TOLERANCE:	DIN EN 60751 class B								
TEMPERATURE RANGE:	-50 to 150°C								
TEMPERATURE DEPENDENCE OF RESISTIVITY:	according to DIN EN 60751								
	-50 to 150°C :								
	-50 bis 0°C $R(t) = R_0(1 + A \cdot t + B \cdot t^2 + C \cdot [t - 100]^3)$								
	0 bis 150°C $R(t) = R_0(1 + A \cdot t + B \cdot t^2)$								
	$A = 3.9083 \cdot 10^{-3} \cdot ^\circ\text{C}^{-1}$, $B = -5.775 \cdot 10^{-7} \cdot ^\circ\text{C}^{-2}$,								
	$C = -4.183 \cdot 10^{-12} \cdot ^\circ\text{C}^{-4}$								
	R_0 = resistance value in Ohm at 0°C								
	t = temperature in accordance with ITS90								
DIMENSIONS (mm):	<table style="width: 100%; text-align: center;"> <tr> <td>L</td> <td>W</td> <td>H</td> <td>LW</td> </tr> <tr> <td>1.6 +/- 0.2</td> <td>1.2 +/- 0.2</td> <td>0.8 +/- 0.2</td> <td>200 +/- 5.0</td> </tr> </table>	L	W	H	LW	1.6 +/- 0.2	1.2 +/- 0.2	0.8 +/- 0.2	200 +/- 5.0
L	W	H	LW						
1.6 +/- 0.2	1.2 +/- 0.2	0.8 +/- 0.2	200 +/- 5.0						
LEAD WIRES:	Cu-enameled wire, Ø 0.2mm, 200mm long wire ends stripped 5mm +/- 1mm								
LONG TERM STABILITY:	max. 0.03% after 1000 hours at +150°C								
MEASURING CURRENT:	0.3 - 1.0mA, max. 3.0mA								

	Title	Name	Signature	Date
DRAWN	R&D	F. Klammsteiner	<i>[Signature]</i>	12.10.2009
APPROVED	R&D Manager	J. Polak	<i>[Signature]</i>	12.10.09
QS	QS Manager	A. Polak	<i>[Signature]</i>	12.10.09