

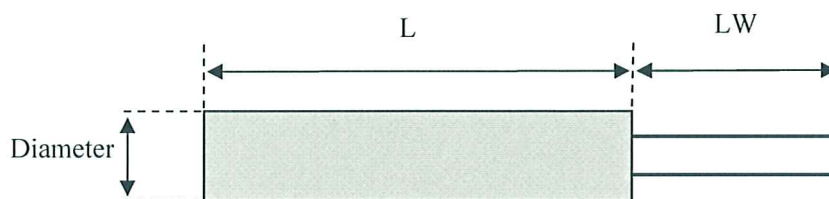


INNOVATIVE SENSOR TECHNOLOGY

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<b>IST AG</b>	<b>Platin thin film RTD</b>		<b>6W</b>		
	Drawing No.		Z1111.08.04 en		
	Rev.	Date	Page		
	-	01.04.08	1		

Dimensions [mm]:



**GENERAL SPECIFICATIONS:**

TYPE:	<b>P0k1.281.6W.B.007</b>						
NOMINAL RESISTANCE:	100 Ohm @ 0°C						
TEMP. COEFFICIENT:	3850 ppm/K						
TOLERANCE:	DIN EN 60751 class B						
TEMPERATURE RANGE:	-200 to 600°C						
TEMPERATURE DEPENDENCE OF RESISTIVITY:	according to DIN EN 60751: -200 to 0°C $R(t) = R_0(1 + A \cdot t + B \cdot t^2 + C \cdot [t - 100]t^3)$ 0 to 600°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="margin-left: 40px;"> <tr> <td>L</td> <td>Diameter</td> <td>LW</td> </tr> <tr> <td>13.0 +/- 0.2</td> <td>2.8 +/- 0.1</td> <td>7 +/- 1.0</td> </tr> </table>	L	Diameter	LW	13.0 +/- 0.2	2.8 +/- 0.1	7 +/- 1.0
L	Diameter	LW					
13.0 +/- 0.2	2.8 +/- 0.1	7 +/- 1.0					
LEAD WIRES:	Pt/Ni-wire, Ø 0.2mm, 7mm long						
LONG TERM STABILITY	max. 0.04% after 1000 hrs at +600°C						
MEASURING CURRENT:	0.1 - 0.5mA, max. 1.0mA						

	Title	Name	Signature	Date
DRAWN	R&D	M. Rupflin	<i>M. Rupflin</i>	01.04.2008
APPROVED	R&D Manager	J. Polak	<i>J. Polak</i>	01.04.2008
QS	QS Manager	A. Polak	<i>A. Polak</i>	01.04.2008

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