

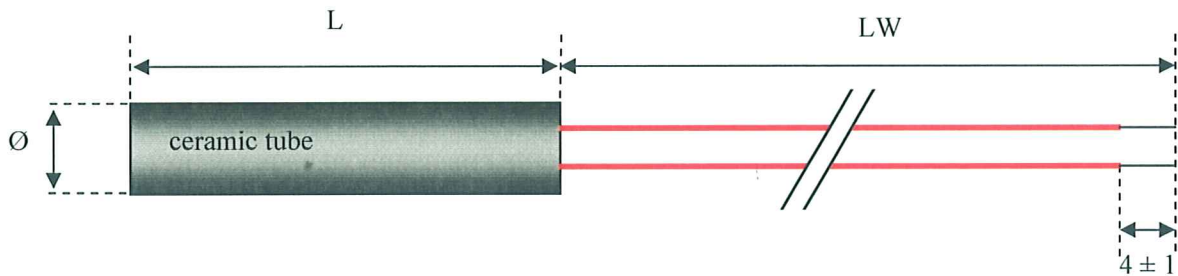


INNOVATIVE SENSOR TECHNOLOGY

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IST AG	Platin thin film RTD		2K.R.S		
	IST AG Part No.: 010.00796		Drawing No. Z1173.09.10 en		
	Rev.	Date	Page		
	-	08.10.09	1		

Dimensions [mm]:



GENERAL SPECIFICATIONS:

TYPE:	P0K1.281.2K.B.150.R.S (thin film sensor potted into ceramic tube)						
NOMINAL RESISTANCE:	100 Ohm @ 0°C						
TEMP. COEFFICIENT:	3850 ppm/K						
TOLERANCE:	DIN EN 60751 class B						
TEMPERATURE RANGE:	-50 to 200°C						
TEMPERATURE DEPENDENCE OF RESISTIVITY:	according to DIN EN 60751: -50 to 0°C $R(t) = R_0(1 + A \cdot t + B \cdot t^2 + C \cdot [t-100]t^3)$ 0 to 260°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%; border: none;"> <tr> <td style="text-align: center;">L</td> <td style="text-align: center;">Ø</td> <td style="text-align: center;">LW</td> </tr> <tr> <td style="text-align: center;">13.0 +/- 0.2</td> <td style="text-align: center;">2.8 +/- 0.1</td> <td style="text-align: center;">150 +/- 5.0</td> </tr> </table>	L	Ø	LW	13.0 +/- 0.2	2.8 +/- 0.1	150 +/- 5.0
L	Ø	LW					
13.0 +/- 0.2	2.8 +/- 0.1	150 +/- 5.0					
LEAD WIRES:	Stranded wires, AWG26, insulation: PTFE						
SPECIAL:	Wires stripped 4mm						
LONG TERM STABILITY	max. 0.04% after 1000 hrs at +200°C						
MEASURING CURRENT:	0.3 - 1.0mA, max. 3.0mA						

	Title	Name	Signature	Date
DRAWN	R&D	F. Klammsteiner	<i>[Signature]</i>	08.10.2009
APPROVED	R&D Manager	J. Polak	<i>[Signature]</i>	12.10.09
QS	QS Manager	A. Polak	<i>[Signature]</i>	12.10.09

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