

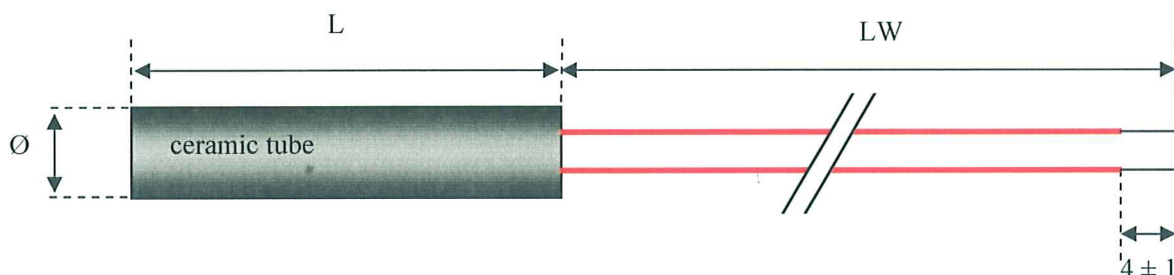


INNOVATIVE SENSOR TECHNOLOGY

IST AG, Industriestrasse 2, CH-9630 Wattwil, Switzerland, Phone (+)41 71 987 73 73, Fax (+)41 71 987 73 77
e-mail info@ist-ag.com, www.ist-ag.com

IST AG	Platin thin film RTD		2K.R.S	
	IST AG Part No.: 010.00796		Drawing No. Z1173.09.10 en	
	Rev.	Date	Page	
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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]:	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. Klammersteiner		08.10.2009
APPROVED	R&D Manager	J. Polak		12.10.09
QS	QS Manager	A. Polak		12.10.09