

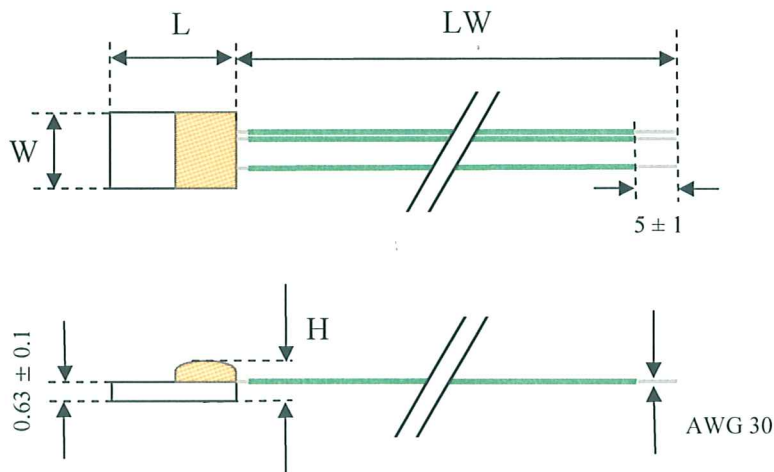


INNOVATIVE SENSOR TECHNOLOGY

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IST AG	Platin thin film RTD		2I	
	IST AG Part No.: 010.01761		Drawing No. Z1174.09.10 en	
	Rev.	Date	Page	
	-	15.10.09	1	

Dimensions [mm] :



GENERAL SPECIFICATIONS:

TYPE:	P0k1.232.2I.B.1000-3			
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 200°C:			
	-50 bis 0°C $R(t) = R_0(1+A \cdot t + B \cdot t^2 + C \cdot [t-100]t^3)$			
	0 bis 200°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			
	L	W	H	LW
DIMENSIONS (mm):	2.3 +/- 0.2	2.0 +/- 0.2	1.2 +/- 0.3	1000 +/- 5.0
LEAD WIRES:	Cu/Ag-wires, AWG30, with PTFE-insulation			
	wire ends stripped 5mm +/- 1mm			
LONG TERM STABILITY:	max. 0.04% after 1000 hours at +200°C			
MEASURING CURRENT:	0.3 - 1.0mA, max. 3.0mA			

	Title	Name	Signature	Date
DRAWN	R&D	F. Klammsteiner		15.10.2009
APPROVED	R&D Manager	J. Polak		15.10.09
QS	QS Manager	A. Polak		15.10.09