



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



$$R_s = R_l + R_0(1 + \alpha T + \beta T^2)$$

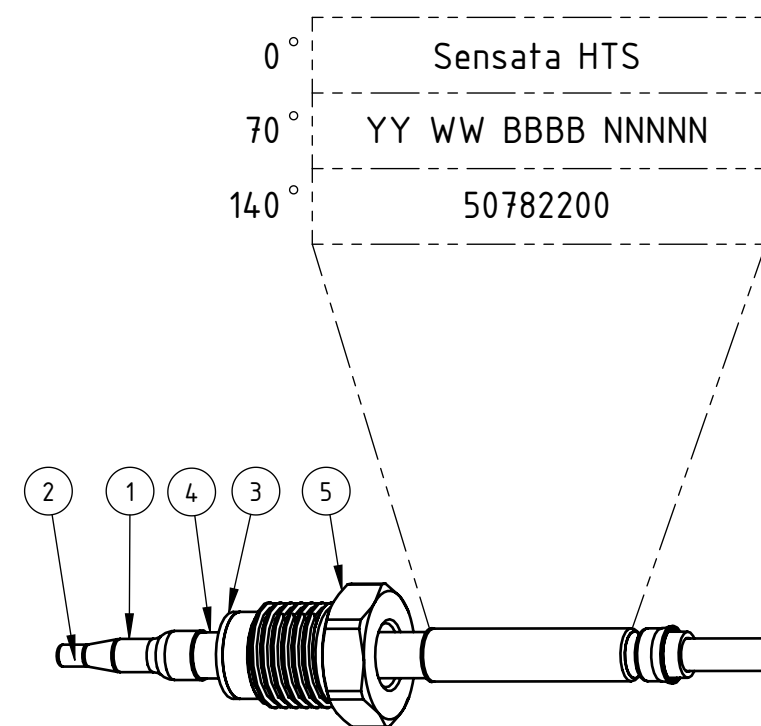
$$\alpha = 3.908 \cdot 10^{-3}$$

$$\beta = -5.78 \cdot 10^{-7}$$

T (°C)	R <sub>s</sub> (Ω)	U <sub>0</sub> (V)
-40	421.9	1.484
0	500.5	1.668
50	597.5	1.870
100	693.0	2.047
200	879.8	2.340
300	1060.7	2.574
400	1235.9	2.764
500	1405.3	2.921

Position	Temperature (°C)
A (Tip)	500
B (Flange)	500
C (Rearhousing)	260
D (Cable Seal)	180

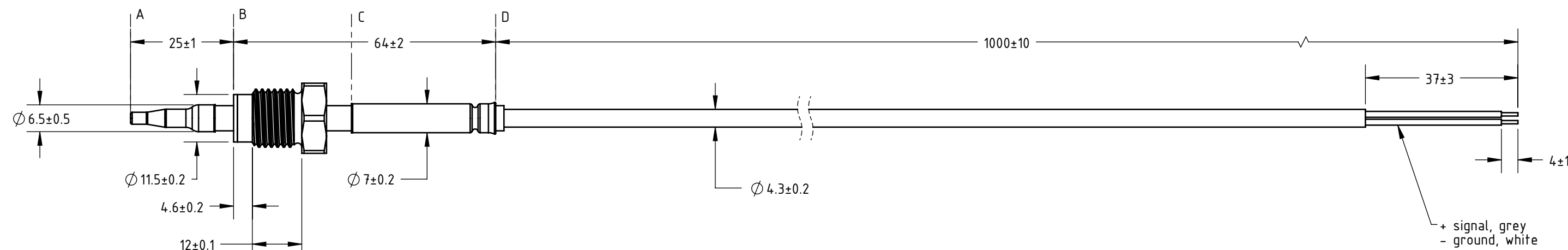
(\*)=Temperature higher than indicated in the tabel can be allowed when measured under specific conditions and documented by the customer and approved by Sensor-NITE. Special DARTS200 sensors for these measurements with thermocouples in the sensorbody are made by Sensor-NITE. See also Technical specification and validation DARTS200 Exhaust gas temperature Sensor. For connector, sleeve, clips, labels,...: see individual temperature specifications



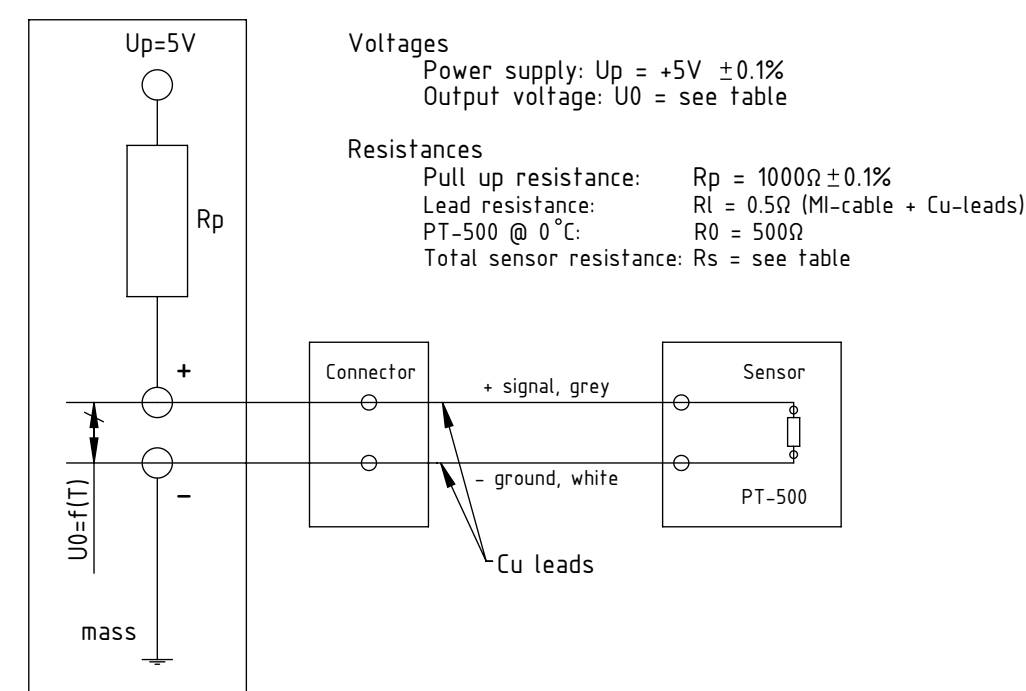
**LEGEND**  
 YY : Year  
 WW : Weeknumber  
 BBBB : Batchnumber  
 NNNNN : Serialnumber

**TEXT FORMAT**  
 Font: DIN 1451  
 Size: min 1.5mm  
 max 2mm  
 Alignment: centered

Nr.	Name	Material	Remark
1	Front cover	Inconel 601	
2	Pt-500	Platin temperature sensor element	CTC - MN220
3	Flange	1.4845 310H	
4	MI cable	1.4845 310H	
5	Hexagon nut	1.4571	M14x1.5 SW17
6	Flexible cable		



RTD circuit to MCU



Tightening of the hexagon nut 45Nm ±10%

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B	Marking updated	ECO-154321	16/03/17	Daniel Mullen
A	Design Release	ECO-139509	26/10/16	Daniel Mullen
REV.	DESCRIPTION	ECO No	DATE	REQUESTOR

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MATERIAL		TOLERANCES: LINEAR: 0 UP TO 6: ±0.1 OVER 6 UP TO 30: ±0.2 OVER 30 UP TO 120: ±0.3 OVER 120 UP TO ∞: ±0.5 ANGLES: ±3°		
GEN. ROUGHNESS		DRAWING NUMBER		
APPROX. WEIGHT (g)		50782250		
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DRAWING SIZE A2		SOLIDWORKS SHEET 1 OF 1		