Platinum Resistance Temperature Detector HEA 420

HEA 420 platinum temperature sensors are characterized by long-term stability, precision over a broad temperature range and compatibility. Main application areas are within the automotive industry. For measuring high temperatures you should use a sensor, which reliably works in rough environments, has a long expectancy of life and ideally comes up with the space-saving concepts of the automotive industry.

Nominal Resistance R_0	HST-Tolerance	Order No. Blister box
200 Ohm at 0°C	±4.5 K at 0°C ±7.5 K at 500°C ±15 K at 1000°C	32 208 674

The measuring point for the nominal resistance is defined at 6 mm from the end of the sensor body.

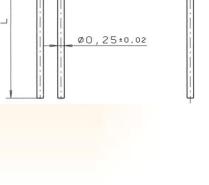|	
Specification	HST (**H**eraeus **S**ensor **T**echnology)
Temperature Range	-70°C up to +1000°C
Temperature coefficient	TC = 3770 ppm/K
Leads	Pt- wire
Lead lengths (L)	3,8mm ±0,5mm
Short-term tests	50h at 1000°C 2mA, ΔRO typical < 4,5K
Long-term tests	500h at 950°C 2mA, ΔRO typical < 3K
Vibration resistance	at least 40g acceleration at 10 to 2000 Hz, depends on installation
Shock resistance	at least 100g acceleration with 8ms half sine wave, depends on installation
Environmental conditions	Unhoused for dry environment only, Up to 650°C in housings also as MI-type possible, above 650°C no reducing atmosphere, free air admission necessary
Insulation resistance	>100 MΩ at 20°C
Self heating	0.2 K/mW at 0°C
Response time	Water current (v= 0.4m/s): $t_{0.5} = 0.05s$ $t_{0.9} = 0.17s$ Air stream (v= 2m/s): $t_{0.5} = 3.3s$ $t_{0.9} = 13.0$
Measuring current	20°C max. 5mA; 1000°C max. 2.7mA (self heating has to be considered)
Note	Other tolerances, values of resistance and wire lengths are available on request.
Status	**Prototypes for testing purposes only**

RoHS conform ✓

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