

## Pt 6,8 M 1020

The platinum microheater is designed for applications in the automotive industry, e. g. in air flow meters, for low flow applications in HVAC or for medical analytical equipment. Features include very low response times, excellent long term stability and very high operating temperature ranges.

Nominal Resistance R0	Tolerance	Order Number
6.8 Ohm at 0°C	±0.50 Ohm	32 208 172

Other resistance values on request!

**Temperature range** -40°C to +500°C; the heating current should be chosen so that the maximum allowed temperature is not exceeded

**Temperature coefficient** TC = 3850 ppm/K

**Design** photolithographically structured platinum thin film on a 0.15mm thick Al<sub>2</sub>O<sub>3</sub> - substrate, glass film passivation

**Terminal leads** platinum wire, Ø 0.1mm; pull test ≥ 1 N

**Lead length (L)** 3.5mm ±0.5mm

**Long- term stability** max. R<sub>0</sub>-drift 0.04% after 1000 h at 500°C

**Vibration resistance** min. 40g acceleration at 10 to 2000 Hz; depending on mounting method used

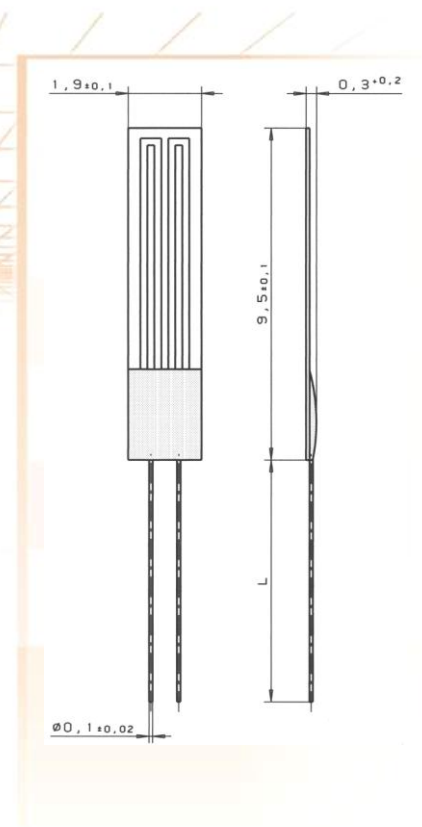
**Shock resistance** min. 100g acceleration with 8ms half sine wave; depending on mounting method used

**Environmental conditions** for use even in high humidity ranges and in some corrosive atmospheres

**Insulation resistance** > 100 MΩ at 20°C

**Heating time** 300 ms to 200°C with I<sub>max</sub> < 2 A

**Note** Other tolerances, values of resistance and wire lengths are available on request.



We reserve the right to make alterations and technical data printed. All technical data serves as a guideline and does not guarantee particular properties to any products.

Heraeus Sensor Technology GmbH, Reinhard- Heraeus- Ring 23, 63801 Kleinostheim, Germany  
Phone: +49 (0) 6181/35-8098, Fax: +49 (0)6181/35-8101, E-Mail: [info.HSND@Heraeus.com](mailto:info.HSND@Heraeus.com) Web: [www.heraeus-sensor-technology.com](http://www.heraeus-sensor-technology.com)