MICRO HEATERS

Standard Heater Thick Film:

Resistance:	12 Ω ±10%
Dimensions:	13 mm x 16 mm x 0.63 mm
Heating Material:	PTC resistor
Substrate:	Al ₂ 0 ₃
T range:	-50°C to +800°C
Heat up time:	>100°C in 10 sec
Power density:	15W/cm ²

Deviating requirements on request



Heat up times for different supply voltages:

- Red: 12V .
- Yellow: 5.0V
- Blue: 3.3V •



Innovative Sensor Technology IST AG Stegrütistrasse 14 CH-9642 Ebnat-Kappel Switzerland

info@ist-ag.com +41 71 992 0100

www.ist-ag.com



Innovative iST Sensor Technology

physical. chemical. biological.



MICRO HEATERS

For precise heating of solids, liquids and gases

Micro Heaters



The perfect fit for any application

Precise, reliable and cost-efficient: IST AG micro heaters are tailor-made to your application's needs.

Micro heaters are used in devices requiring a small but accurate heat source with precise temperature control, such as optical interactive assistance systems.

Allowing for targeted heating of tiny spaces, IST AG micro heaters are found across various industries, including automotive, laser manufacturing, humidification units, life-science, 3D printing and medical devices.

They are a precision heat source for gas and humidity sensors, biopsy or tissue samples for medical analysis, or used in malignant tumor treatment.

Each micro heater is individually customized and designed to fit your application's requirements.

Contact us and discuss your heater requirements with our experts.

Benefits & Characteristics

Our micro heaters combine high-precision and long-term stability with a wide temperature range from - 50°C up to 800°C and feature numerous benefits:

- Fast response times
- High temperature stability
- Long term stability
- Overheating protection
- High precision
- Targeted heating of tiny spaces
- Tailor-made to fit customer's application

Their small footprint in all shapes and sizes and excellent thermal characteristics facilitate precise and highly localized heating of solids, liquids, and gases.

Development & Technology Partner

Benefit from our extensive expertise in various thin and thick film technologies and use our team to help you create your innovation. Thick film technology, for example, is known for its:

- Large area functionalization
- High volume production
- Marketable pricing
- Highest quality standards
- Various materials for substrates and active layers available

Our expertise with PTC materials in combination with thin- and thick film technology enables us to provide various coating techniques for application-specific property tuning, resulting in fast, homogeneous, and efficient heat delivery.

Our job does not end with delivery of your heating element – we support you with advice, simulations, and technical discussions concerning your application during and after the development of your custom IST AG micro heater.