



**NANOTEST**  
Berliner Nanotest und Design GmbH

**TΩCS**<sup>®</sup>



**Three Omega Characterization System**

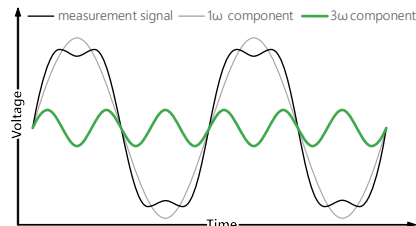
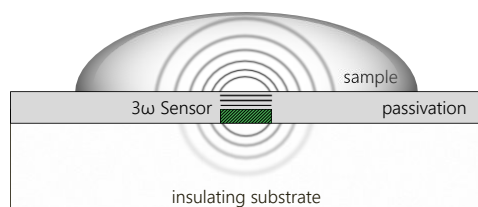
**Thermal  
conductivity  
characterization  
done within a minute**

深圳市现代豪方仪器仪表科技有限公司 0755-26738675

## A straightforward solution. From solids to liquids.

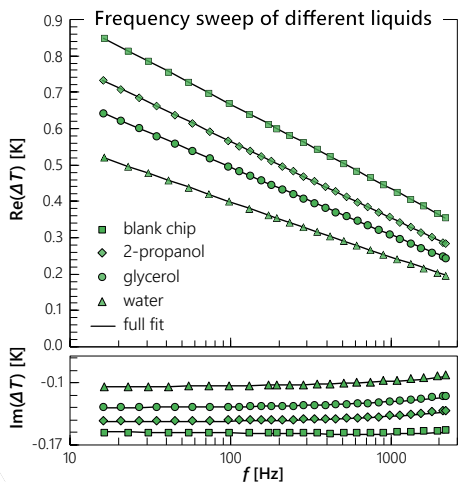
TOCS is a compact quick testing system for characterization of a wide range of various materials to obtain both, the thermal conductivity and diffusivity, within a few minutes.

- ▶ Liquids and suspensions
- ▶ Gels, pastes and filled greases
- ▶ Pads and soft materials
- ▶ Compact benchtop system
- ▶ Re-usable test chips
- ▶ External sample holder
- ▶ Complete hard- and software solution
- ▶ Compatible with any other 3-omega measurement structure

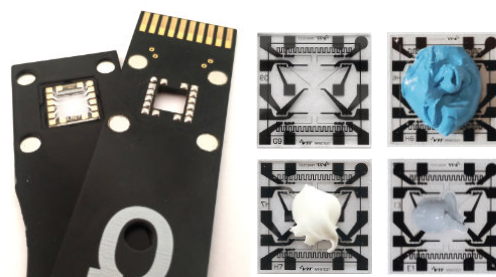


## Thermal conductivity and diffusivity

The bi-directional model fit of 3-omega method simultaneously provides thermal conductivity and diffusivity of the tested material. Thermal conductivity, in particular, is available within a minute.



- ▶ All-in-one software suite
- ▶ Very fast measurement with high reproducibility
- ▶ Easy sample application
- ▶ Curing and non-curing materials
- ▶ Measurement in application-specific environment:
  - ▶ Vacuum or protective gas
  - ▶ Elevated temperatures
  - ▶ High atmospheric pressure



## Your system, your rules

TOCS supports the use of any 3-omega structure as plug and play. Out of the box.

But if you don't have your own chips at hand, do not despair.

We have the right one for you.

### Chip characteristics

- ▶ Borosilicate glass chips
- ▶ 12 x 12 mm<sup>2</sup> size
- ▶ Three 3-omega sensors
- ▶ Two independent heaters
- ▶ Low-budget consumable

