

# Real Thermal Solutions by Experiments

## LW-9389 Grease, Pad & MCPCB's Thermal Resistance & Conductivity (Kz)

### According to

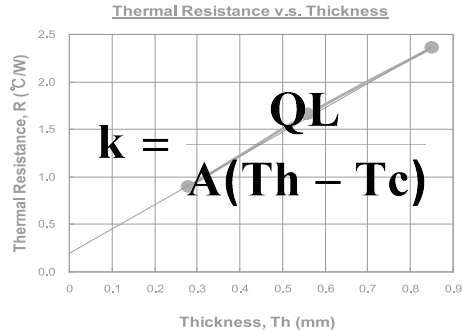
- Fourier's Law of heat conduction
- ASTM D 5470-06 Standard

### Applicable for Measurements of

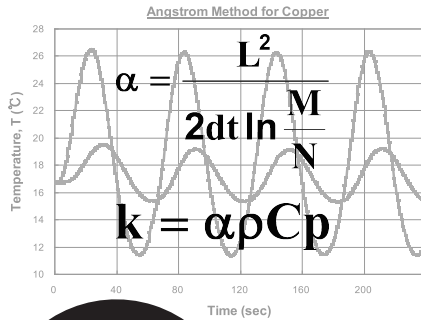
- Thermal impedance (I) > 0.01 °Ccm<sup>2</sup>/W
- Thermal conductivity (K) < 20 W/m°C

### Capable of Determining

- Thermal impedance (I) & resistance (R)
- Thermal conductivity (Kz)
- Pad deflection %



## LW-9514 Graphite Heat Spreader & High-K Thin Film Materials' In-Plane Thermal Conductivity (Kxy)



### According to

- Angstrom method

### Applicable for Measurements of

- Thermal diffusivity ( $\alpha$ ) > 0.05 cm<sup>2</sup>/sec
- Thermal conductivity (K) > 15 W/m°C

### Capable of Determining

- Thermal diffusivity ( $\alpha$ )
- In-plane thermal conductivity (Kxy)

Real-time  
performance  
test

PC-based  
control

Automatic  
data  
acquisition

Free  
software  
upgrade

Results  
exported as  
Excel files

## More thermal-related measurement apparatus for

- Fan performance
- TIMs
- Cooler modules
- Heat pipes
- Vapor chambers
- IC packages
- LEDs
- Natural-convection simulation

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