

Thermal Evaluation for Micro Components

Challenge

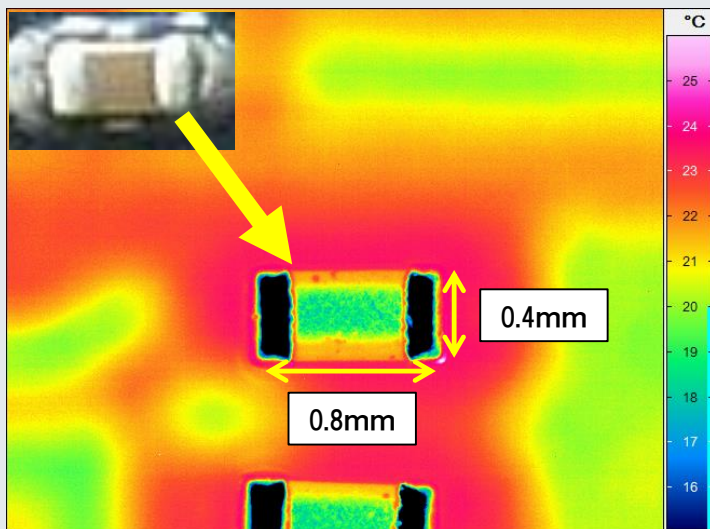
- Thermal evaluation of micro components on mount board are too small for thermocouple.
- It is required to study heat dissipation of mounting board.

Avio Solution

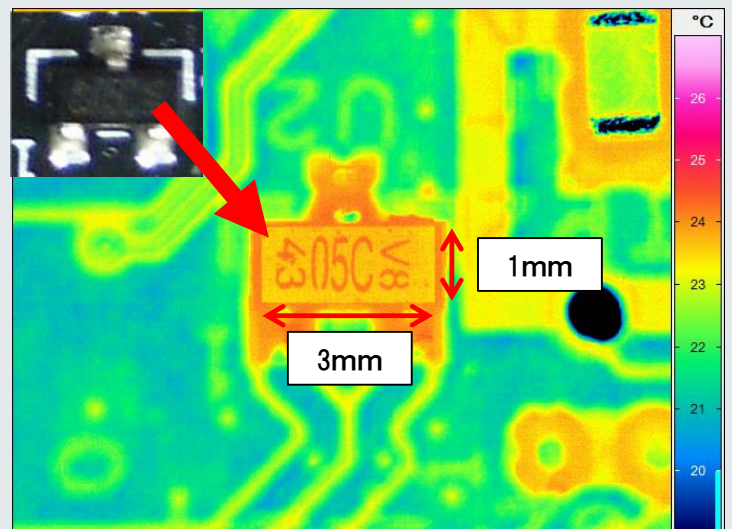
High resolution IR microscopic lens enables to display temperature distribution, as well as thermal evaluation of micro components.

- ★ With high resolution microscopic lens (5 μ m, 15 μ m), temperature distribution display of micro components, which are not possible to measure by thermocouple, helps to make thermal evaluation.
- ★ Instant behavior of micro components can be captured by high-speed sampling (Max 1KHz)
- ★ It is expected to be used for more for thermal evaluation of IoT device.

Several hundreds μ m class parts can evaluated thermally.



5 μ m microscopic lens
(Displayed area: 3.2mm x 2.5mm)



15 μ m microscopic lens
(Displayed area: 9.6mm x 7.6mm)

Optimum proposal for customer's component size from Avio product line up

Recommended model for measurement of micro components

For μm class



H9000



15 μm microscopic lens
Focal distance: 195mm

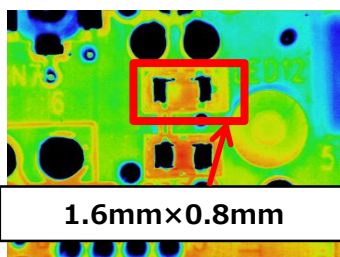
【Main Features】

- ⊙ 15 μm long focus microscopic lens is available (*Photo on left)
- ⊙ 5 μm microscopic lens for micro components.
- ⊙ Ultra-high speed recording (Max 1KHz)
※When the windowing is used.
- ⊙ Pre-trigger recording function
- ⊙ Automatic recording by external trigger signal

For mm class



R500EX Series



1.6mm \times 0.8mm

【Main Features】

- ⊙ VGA(640 \times 480) thermography
- ⊙ 21 μm , 52 μm close-up lens are available.
- ⊙ Automatic recording by external trigger signal.
- ⊙ Remote control is available by remote controller or by PC.

For entire board



R300SR Series



【Main Features】

- ⊙ QVGA(320 \times 240) thermography
- ⊙ 72 μm close up lens is available.
- ⊙ High speed recording (Max 60Hz) by connecting with PC.
- ⊙ Automatic recording by external trigger signal.
- ⊙ Remote control is available by remote controller or by PC.

Avio offers most suitable model for all of your measurement needs.

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WARNINGS & CAUTIONS

- Before using this product, please carefully read the provided Operation Manual "WARNINGS" & "CAUTIONS" section to ensure proper operation.
- Please do not place the product in high temperature, high humidity or high inert gas environments.

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