FICT

Large Current, High Heat dissipation PCBs

PCB Solutions for Power Electronics Equipment such as Automotive ECU/PCUs and Industrial Robots

Heat-Resistant Material

High heat resistance requirements increasing with the product miniaturization.

- Improvement of material heat resistance: PCBs with materials supporting over Tg=200C°. (Tg: Glass transition temperature)
- Selection of materials according to the PCB requirements: Wde selection of reliable materials.

Large Current, High Heat dissipation

Optimal technologies to meet our customers various needs such as Large Current and High thermal conductivity.

- No conductor exposure at the edge of the PCB.
- PCB manufactured with conventional materials.
- Product size: Small Semiconductor Packages up to large size PCBs (480mm×580r available.
- High thermal conductivity material for high heat dissipation to spread the heat from the hot spots of the PCB.

| Solutions for Autom | otive and Industrial Powe | r Electronic | | |
|-----------------------|--|---|----------------------------------|--|
| PCB Technology | ① Thick Cu PCB | 2 Cu Coin PCB | ③ High Thermal | (1) + (3) |
| (General Spec.) | (Inner layer Cu thickness[µm]: 175, 300, 500, 1000) | $ \left(\begin{array}{c} Cu Coin Shape[mm]: \\ \phi 3.0 \sim \phi 8.0, Rectangle \end{array} \right) $ | Conductivity Material | Case Study |
| Heat Dissipation Path | Horizontal | Vertical | Vertical | Horizontal and Vertical |
| Current Path | Horizontal | (Vertical) | — | Horizontal |
| X-section | Thick Cu: 500µm×2 | Copper Coin: Rectangular | High thermal conductive resin | Thick Cu + High thermal conductive resin |

- Contact

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