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

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FICT LIMITED

1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588, Japan (Company Mail No./Hon-1014) Tel: +81-44-754-2260

