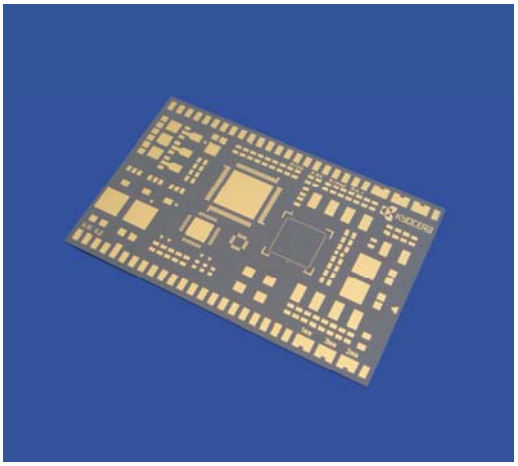
KYOCERA THE NEW VALUE FRONTIER

High Power, Compact ECU Substrate

NEW!

Multilayer Ceramics with Low Resistance Conductor Enables Compact High Power ECU

Product

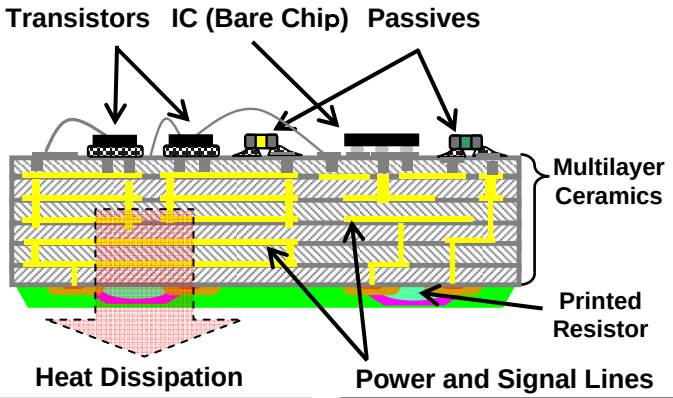


Features

- **High Current ECU Ceramic Substrate**
  Current Capacity: up to ~25A*
- **Compact Substrate by Wiring Power and Signal Lines into the Substrate**
- **Close CTE to Silicon Bare Chip Enables Reliable Mounting**
  CTE: 7.0ppm/K (RT ~ 400 degree C)
- **Printed Resistor Available**

Compact ECU Assembly Image

Cross Section

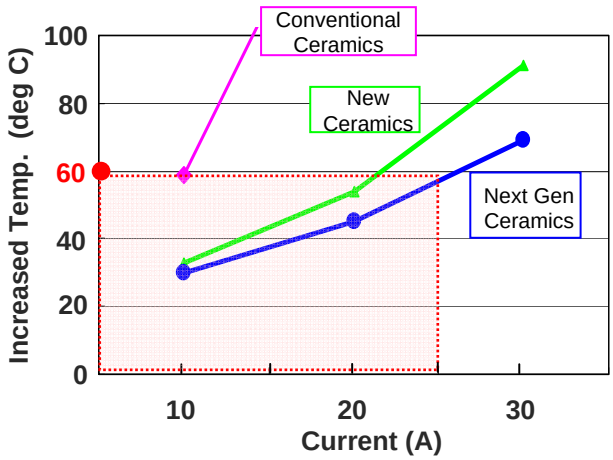


Thermal Conductivity	
Conventional Ceramics	: 18W / mk
New / Next Gen Ceramics*	: 16W / mk

Sheet Resistance	
Conventional Ceramics	: 10mΩ / sq.
New Ceramics	: 4mΩ / sq.
Next Gen Ceramics*	: 2mΩ / sq.

Current Capacity

Current vs Ceramic Surface Temperature**
(Simulation Data)



* Under Development

** As for simulation method and condition please ask to Kyocera staff or website

E-mail: webmaster.sc@kyocera.jp URL: http://global.kyocera.com/sc