FUNCTIONAL DESCRIPTION

Harsh environment three-phased power motor-driving module
FEATURES & ASSETS
- Input voltage 1200Vdc
- Output current 400A
- Junction Temperature up to 200°C
- Output power up to 150kW
- Dimensions: 175mm x 125mm x 15mm

TECHNOLOGIES
- 1200V Silicon Carbide Mosfet
- Hi-thermal conductive substrate (Si₃N₄)
- Al SiC baseplate (low CTE including pin-fin structure)

SPECIFIC PROCESSES
- Ag Sintering die-attach
- Ultra low-void vacuum reflow
- High temperature brazing
- CucorAl 200 to 500µm wire-bonding
- High temperature silicone gel

APPLICATION FIELDS
- Automotive electronics
  Powertrain (hybrid vehicle)
- Commercial avionics
  Electric braking systems
  Green taxiing
- Railways
  Motor-drive inverters