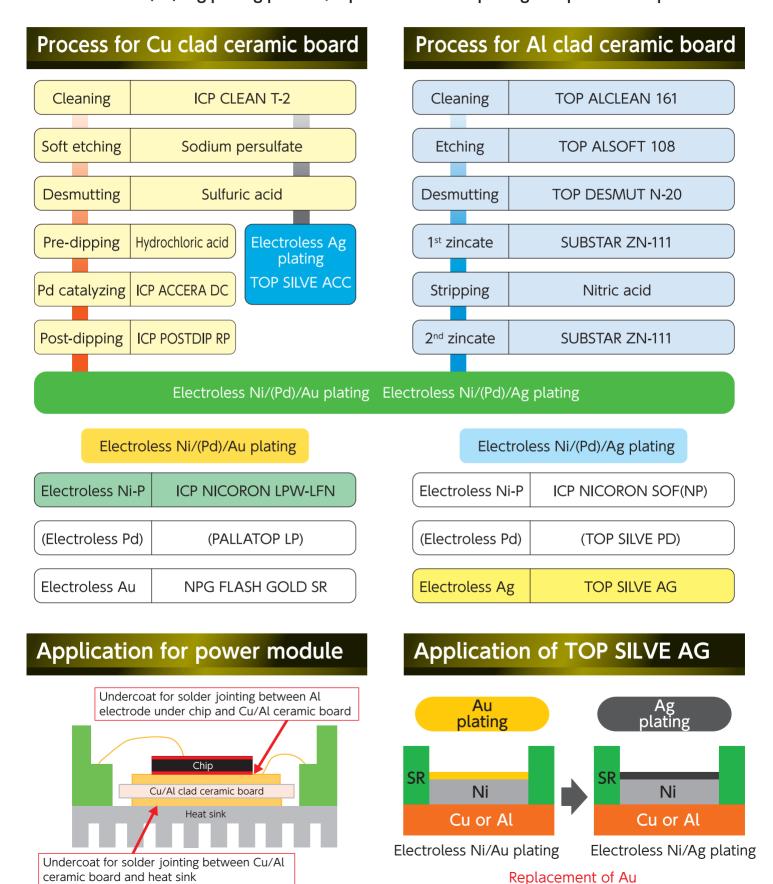
Electroless plating process

- Electroless Ni/(Pd)/Au plating process with solder joint reliability under high temperature use
- Electroless Ag plating solution for silver sintered joint, prevent Cu corrosion
- Electroless Ni/(Pd)/Ag plating process, replacement of Au plating and prevent Ni spike



ICP NICORON LPW-LFN

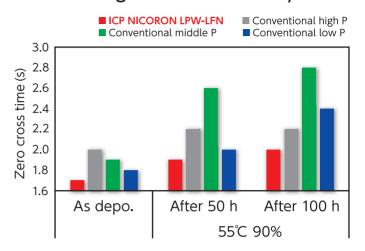
High solder joint performance

Solder Conventional Middle P content Nickel Solder P rich layer Copper S3400 15.0kV 9 8mm x3.00k SE Copper S3400 15.0kV 9 8mm x3.00k SE

Sn-3.0 Ag-0.5 Cu solder dipping Cross-section SEM image after 200 ℃, 300 h heat treatment

Even after a long-time heat treatment, prevent the formation of P rich layer, ensure high solder joint performance

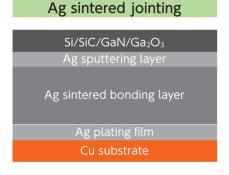
High solder wettability



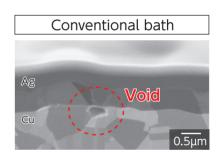
Measuring zero cross time by meniscograph method (dip into Sn-3.0Ag-0.5Cu solder at 250 $^{\circ}$ C)

Reduce the decrease of solder wettability after time passage

TOP SILVE ACC



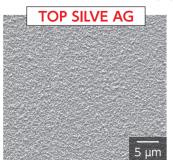


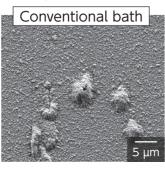


Prevent the corrosion of Cu substrate, applicable to Ag sintered jointing

TOP SILVE AG

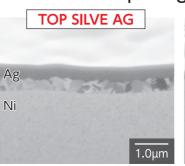
Smooth Ag plating film

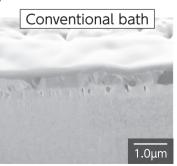




Surface SEM image after electroless Ag plating

Protect Ni plating from corrosion





Cross-section SIM image after electroless Ni/Ag plating