



# Superterm Multilayer Ceramic Capacitors

\* Holystone Inc. (HEC) has developed "Super Term" polymer termination to address the customer cracking issues of MLCC products.

\* Unlike standard ceramic capacitors, Superterm can withstand excessive mechanical stresses which may occur during the manufacturing of PC boards (especially during the handling and depanelizing of the boards), which result in mechanical cracks. (See below photo).

\* Superterm capacitors are manufactured with the addition of a proprietary Polymer Termination which acts as a cushion and layer to relieve the mechanical stresses of board process and manufacturing operations.

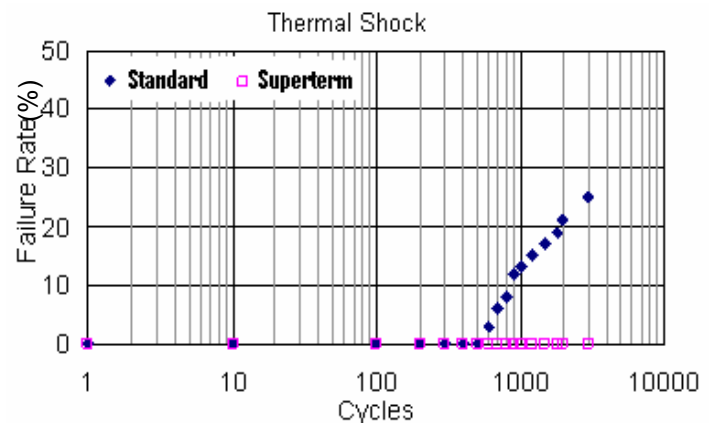
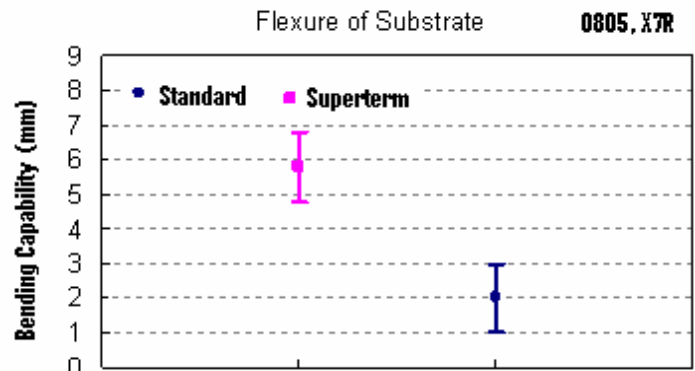
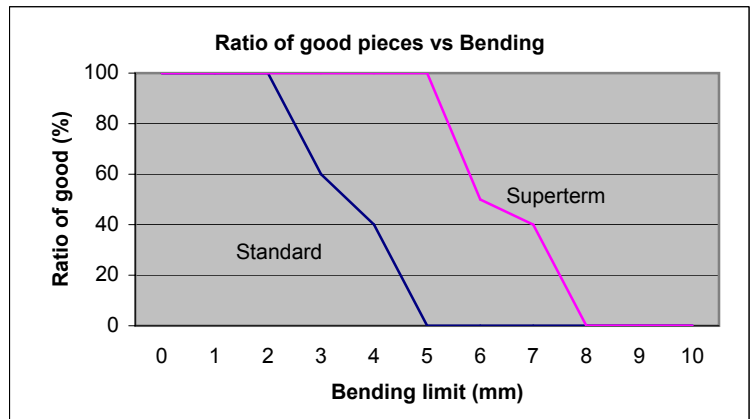
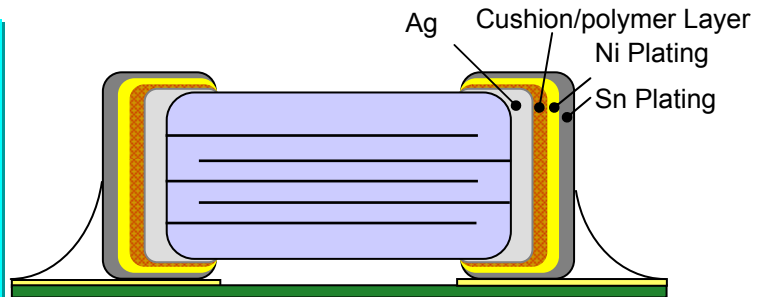
\* Superterm results and data demonstrate a significant improvement against Thermal Shock, up to 3000 Cycles with no reported failure compared to standard Multilayer Ceramic Capacitor (MLCC).

\* The Superterm solution is more pronounced on weaker and more brittle ceramic material bodies like X7R, Y5V, Z5U, etc...

\* Although Superterm can significantly reduce the cracking potential due to mechanical stresses, other precautionary actions and process control must be taken to minimize this potential issue. Further improvement could be achieved by proper Circuit board pad design.

\* HEC offers "Superterm" in all sizes from 0805 to 2220 and in all standard available capacitance values and dielectrics ♪.

♪ Consult the factory for specific size, cap value availability.



■ All datas are typical

