ROGERS CORPORATION

Processing Notes

RO3000®/RO3200™ Series High Frequency Laminates Quick Reference Processing Guide

Material Description:	Copper clad ceramic filled PTFE composite (RO3000® products). Woven glass reinforced copper clad ceramic filled PTFE composites (RO3200™ Products).
Storage:	Ambient
INNER LAYER PREPARATION	
Tooling:	Compatible with most round and slotted hole systems.
Surface Preparation for Photoresist Applications:	Chemical preparation.
Photoresist Applications:	Standard film and liquid resists and procedures.
DES Processing:	Standard processing. Thin cores may require leaders or frames.
Oxide Treatment:	Use procedures associated with oxide or oxide alternative of choice.
BONDING	
Final Preparation:	125°C to 150°C (257°F to 302°F) Pre-bake required.
Multilayer Adhesive System:	Compatible with most thermoplastic and thermoset films.
Multilayer Bond Cycle:	Use bond parameters associated with adhesive system.
PTH AND OUTER LAYER/DOUBLE SIDED CIRCUIT PROCESSING	
Drilling:	Rigid and supportive entry/exit materials such as pressed phenolic. Use new drills. Controlled infeeds, speeds, and retract rates. Use 12" rule to determine initial hit counts.
Deburring:	Mechanical debur/scrub not recommended. Very light applied pressure if debur is required.
Hole Preparation:	Pressurized water or air purge of holes is okay. Sodium or plasma treatments required prior to metal deposition. Bake required after sodium treatment.
Metallization:	Electroless copper (low or regular dep rates preferred over heavy dep processes) or direct deposit processes.
PTH PLATING AND OUTER LAYER IMAGING	
Final Surfaces:	Compatible with most final metals surfaces and OSP's. Preserve post-etch surface and bake cores prior to application of LPI.
Final Circuitization:	Rout & punch as required. Material support and sharp edges on cutting tools required through mechanical processes. Prefer RO3000 series products if high quality edges are required.

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