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Purchase Order Requirements for Bare PCBs

By accepting the Purchase Order, the supplier is expected to adhere and comply to these requirements, to demonstrate compliance with industry standards and customer expectations, ensuring reliable, traceable, and high-quality PCB deliveries.

Requirement for Fab Supplier	Industry Standard/Best Practice	Supporting Details
Boards to meet/exceed IPC-6012 Class 2 (unless otherwise specified in PO or DWG)	IPC-6012	Ensures moderate reliability and quality; suitable for most commercial and industrial electronics
Workmanship per IPC-A-600 Class 2 (unless otherwise specified in PO or DWG)	IPC-A-600	Defines visual and physical acceptability for Class 2, allowing minor visual defects that do not affect function
Permanently mark PCBs with P/N and Rev per Gerber	Traceability best practice	Ensures traceability and alignment with customer documentation.
Boards will be permanently marked with the Manufacturer's logo, date or lot code, and (if required) UL logo/flame rating	Traceability, regulatory compliance	UL logo and flammability code (e.g., 94V-0) required if UL compliance is specified; logo and date code are standard for traceability. UL file number added if required
100% Electrical Test (Open and Shorts Testing) is required	IPC-6012 requirement	Full electrical testing is standard to ensure functionality and detect opens/shorts
No trace repair allowed	Quality assurance	Prohibits repairs that could compromise reliability; aligns with higher quality expectations.
Microsection and FAI with each new lot/date code, clearly indicating the material type used	IPC-6012/Customer QA	Microsectioning is a common requirement for quality verification; FAI ensures first articles meet all specs
Provide Certificates: Compliance, Test, RoHS, REACH	Regulatory and quality compliance	Standard documentation for environmental and quality assurance.
Review PCB DWGs for additional test requirements and include results of these tests	Diligence and QA	Ensures all customer-specified tests (e.g., ionic contamination, impedance, solderability) are performed and documented.
All paperwork clearly identifies PCB P/N, Rev, date code	Traceability	Standard practice for clear identification and traceability.
Use Anti-static packaging and protection from moisture/handling	ESD and handling best practice	Ensure PCBs are protected during shipping and storage.