



Standard Printed Circuit Board Ltd.

Unit 14, 12/F., Shing Yip Industrial Building, 19~21 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong

Tel: 852-29614637 Fax: 852-21160216 E-mail: info@standardpcb.com Website: www.standardpcb.com

Implementation Method

QA Mar 2006

| Process | Control item | Inspection item | Standards | Dept in Charge | Sampling | Measuring instruments | Record | Verify by: |
|------------------------------|----------------------------------|---|---|---------------------|----------|--------------------------------------|--------|-------------|
| 1. Manufacturing Instruction | Data inspection | Customer drawing / spec & required / Artwork | Std operation procedure & refer customer spec | QA PE | 100% | QA manual Visual | Yes | QA PE |
| 2. Board Cut / Deburr | Dimension / Surface | Board size / No oxidizing even surface | Refer to MI / IPC requirement | PMC PQC | 100% | Micrometer / Visual by AQL | Yes | PQC PROD |
| 3. Circuit Image | Pattern registration / Circuitry | Silk screen surface / Circuitry | Refer to MI requirement | PROD Silk screen | 100% | Visual by 3X Microscope Scale100X | Yes | PQC |
| 4. Etching | Circuitry / Trace surface | Trace surface / thickness No copper nick or spot | Refer to MI / IPC | PROD QC | 100% | Scale 100X 3M 600# tape | Yes | PQC |



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|--------------------------|------------------------------|--|------------------------------------|------------------|----------|---|--------|------------|
| 5. Resist. Solder Mask | Solder Mask | No peel off / Even surface | Refer to MI / IPC | PROD Silk screen | 100% | Scale 100X 3M 600# tape | Yes | PQC |
| 6. Component Marking | Solder Mask | No peel off / Even surface | Refer to MI / IPC | PROD Silk screen | 100% | Scale 100X 3M 600# tape | Yes | PQC |
| 7. Profiling | Dimension / Hole / FA board | Outline dimension / Hole size & location | Refer to MI / IPC & Customer Spec. | Punching | 100% | Scale 10X Micrometer Profile projector Pin gauge | Yes | PQC |
| 8. Washing (DI water) | Surface | Cosmetic | Refer to MI | PROD | 100% | Visual | Yes | PQC |
| 9. Surface Coating (OSP) | Circuitry / Copper Oxidizing | PCB surface | Refer to MI / IPC | PROD | 100% | Visual Scale 10X | Yes | PQC |
| 10. Electrical Test | Circuitry | Open Short circuitry | Refer to MI / IPC & Customer Spec. | QC | 100% | Programming pin tester Multi-meter Scale 10X | Yes | FQC |



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|-------------|-----------------------|---|------------------------------------|----------------|----------|--|--------|------------|--------|
| 11. FQC | Overall Board Quality | Twist & Warpage Board thickness Hole size Cosmetic | Refer to MI / IPC & Customer Spec. | QC | 100% | Visual Scale 10X Pin gauge | Yes | FQA | |
| 12. FQA | Overall Board Quality | Overall Board Quality / Solderability | Refer to MI / IPC & Customer Spec. | FQA | AQL 0.65 | Visual Scale 100X Micrometer Profile projector Pin Gauge 3M 600# tape | Yes | QA | |
| 13. Packing | Packing | Protection | Refer to MI & Customer Spec. | QC | / | / | Yes | QA | |