



(Your Company Logo

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CE-SUP-001

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**(Your Company Name) SUPPLIER AUDIT
CHECKLIST**

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APPROVALS

Originator:
CE Consultants

Date: 5-20-11

(Your Company Name)

(Your Company Name) SUPPLIER AUDIT CHECKLIST

1.0.0 **(Your Company Name) CONTACT INFORMATION**

(Your Company Name) Contact:	
Internal Phone:	
External Phone:	
Internal Fax:	
Email Address:	
Address:	
Dept:	

2.0.0 **(YOUR COMPANY NAME) CONTACT INFORMATION**

Supplier Name:	
Address:	
Street:	
Post Office Box:	
City:	
Province/State:	
Country:	
Postal Code:	
Phone:	() - Ext.
FAX:	
Audit date:	
Audit conducted with (by) Supplier Representative:	
(Your Company Name) Representative:	
(Your Company Name) Location:	

(Your Company Name) SUPPLIER AUDIT CHECKLIST

3.0.0 PROCESS CAPABILITIES

CHARACTERISTIC	YES	NO
Documentation		
Is the following information documented and controlled in this facility:		
Flow charts for Manufacturing processes? (including Quality Control points)		
History of executive level quality reviews?		
Travelers or routing sheets?		
Indexes for all procedures?		
Are the following procedures available:		
- Process introduction/installation		
- Inspection		
- Outgoing quality audit		
- Internal process audits		
- Preventive actions		
- Continuous process improvement		
- Modification & repair		
- Laboratory		
- Statistical Process Control (SPC)		
- Operator training procedures		
- Component substitution		
- Machine operating instructions		
- Implementing a new design change/revision		
- Product tracking (component & material traceability)		
- Equipment maintenance		
- Calibration		
- data collection?		
- Documentation approval		
- Notifying customer of mat. or process changes		
- Electrostatic discharge (ESD) protection		
- Packaging		
- Storage		
- Special processes		
Provide list.		
Scrap and rework controls		
NPI Process required		
Are current procedures available to technicians/operators at this location?		
Are design rules for screen aperture openings documented?		

(Your Company Name) SUPPLIER AUDIT CHECKLIST

CHARACTERISTIC	YES	NO
Administration		
Lot Control procedures:		
Are production lots identified?		
Are ECO Breakpoints Identified?		
Is the finished product traceable to prove that (Your Company Name) qualified material and components are used?		
Are serialization records kept?		
Are specific PCBA tracked?		
What procedures are in place to accommodate different revision levels of the same assembly on the production floor?		
Are PCBA labeled?		
Are PCBA segregated in process?		
Manufacturer's logo:		
How indicated?		
Where placed?		
Process Control		
Is product cleanliness monitored?		
If Yes, give frequency.		
Is product verification/inspection conducted using:		
- (Your Company Name) Workmanship Standards? (Document provided by (Your Company Name))		
- Internal Workmanship Standards?		
Are deltas between (Your Company Name) and internal Workmanship Standards documented?		
Are finished assemblies monitored for:		
- Cosmetic Damage		
- Final packaging Integrity		
- Acceptable Quality Levels established?		
-Counted to verify quantity?		
How is serialization/PCB tracking by unit accomplished?		
Thermal Profiles		
Are all thermal profiles, used to manufacture (Your Company Name) product, maintained as a Quality Record?		
In-Process Inspections		
Are in-process inspections conducted?		

(Your Company Name) SUPPLIER AUDIT CHECKLIST

CHARACTERISTIC	YES	NO
Are inspections performed in compliance with standards or documented procedures?		
Are products held until required inspections/tests are completed?		
Are products found non-conforming during in-process stages identified and held for disposition?		
Are production operations promptly corrected, or shutdown until corrected, when rejections occur?		
Is repaired/reworked product re-inspected in accordance with standards or documented procedures?		
Is suspect product 100% screened for noted deficiencies?		
Are inspection and test records available for review?		
If laboratory tests are conducted to maintain process control, indicate what is done and at what frequency.		
Statistical Process Control (SPC)		
Are SPC charts evident?		
If yes, are control charts used at:		
Raw Materials:		
Component Value?		
Manufacture Name?		
Part Number and Date Code		
Other processes:		
Are process capabilities measured at regular intervals?		
Quality Statistics		
Is Yield data provided?		
Is quality related statistical data published?		
First pass test yield:		
In-circuit?		
Full functional?		
System Test?		
List other data collected		
Are negative trends analyzed and promptly corrected?		
Documentation Control		
Are modification instructions ECO/ECN/CAR verified?		
Have the differences between the current Standard in use and prior been documented?		
Note: Review document for completeness.		
Are (Your Company Name) Standards, as well as documented differences, available for use by operators and inspectors?		
New technology introduction (ie component, processes, methods, etc.):		
Are there any special modification/repair requirements that apply due to a new technology in the manufacture of (Your Company Name) product? (eg. BGA)		

(Your Company Name) SUPPLIER AUDIT CHECKLIST

CHARACTERISTIC	YES	NO
Are these documented?		
Has (Your Company Name) approval been obtained? Note: Review document for completeness.		
Has Preliminary Manufacturing Plan been reviewed and approved by (Your Company Name) ?		
Has Preliminary CM Quality Plan been reviewed and approved?		
Are outgoing product(s) 100% verified for proper serialization, Software revisions?		
Procedures		
Are there documented procedures that describe the steps to be taken when performing the various types of modification/repair operations covering:		
Supplier Corrective Action Request?		
ECO Implementation?		
Temporary Manufacturing Deviations?		
Note: Review document for completeness		
Are operators and procedures audited?		
Training		
Is modification/repair done only by trained operators?		
Is there a formal operator-training program?		
Are operators trained for each work related process?		
Are operators certified on each work related process?		
Are outside training courses provided for non internal training capabilities		
Others?		
Provide list.		
Are operators re-trained when new processes or procedures are introduced?		
Is operator certification part of the program?		
Is this documented?		
Is certification done by operation or by technology?		
What tests must the operator pass:		
Written?		
Practical?		
Are test boards, systems used?		
Is re-certification/de-certification part of the program?		
Is it documented? Note: Review training records		
What is frequency of re-certification?		
Is it documented?		

(Your Company Name) SUPPLIER AUDIT CHECKLIST

CHARACTERISTIC	YES	NO
Is refresher training provided for operators who are not part of formal certification process? If yes, how often?		
Equipment		
Are soldering equipment/irons checked for:		
Temperature accuracy? (Temperature at end of tip)		
Idle temperature stability? (Temperature controller capable of maintaining idle temperature)		
Heating performance under load? i.e what happens when tip is applied to workplace		
Tip-to-ground resistance? (2 ohms maximum per MIL-STD-2000)		
Tip leakage? (2 millivolts RMS maximum per MIL-STD-2000)		
Vacuum performance? (Does vacuum system provide vacuum required?)		
Transient detection? (Internal or external switching does not create transients which can damage components)		
Are established Calibration procedures available and used?		
Is Test Assembly Equipment Calibrated to Manufacturer's Specifications?		
Verify with sample audit every 6 months		
ENVIROMENT		
Is lighting adequate to perform the required operations?		
ESD Controls		
Electrical Testing		
Has the total test capacity, and test process, been approved by the applicable (Your Company Name) test engineer for each product manufactured with regard to:		
In-circuit testing?		
Functional testing?		
Test fixtures?		
Test equipment?		
Test program?		
ESS testing		
Burn-in testing?		
- Range		
- Manual?		
- Automated?		

(Your Company Name) SUPPLIER AUDIT CHECKLIST

CHARACTERISTIC	YES	NO
Component testing?		
Test documentation?		
Characteristic impedance?		
Do test results correlate with those obtained by (Your Company Name) ?		
Is test change, 'approval process' documented?		
Is there a signed agreement between this supplier and (Your Company Name) to identify responsibility for calibration of test equipment?		
Packaging Process		
Are there written specifications showing:		
Method of Packing		
Materials for Packaging		
Sealing operations		
Labeling Operations		
Items to be included in packaging		
Special handling instructions including stack height, orientation, securing		
Shipping		
Method of shipment established		
Shipping confirmation provided		