

This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Benchmark Electronics Tijuana S de RL de CV

Corredor Tijuana- Rosarito 2000 # 24702 Colonia Ejido Francisco Villa 2da Secc.
Tijuana, CP, BAJA CALIFORNIA 22236
Mexico

This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in www.eAuditNet.com on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:

Electronics - Printed Board Assemblies

Certificate Number: 9615209229 Expiration Date: 31 May 2024 Accreditation Length: 12 Months

Jay Solomond

Executive Vice President & Chief Operating Officer



SCOPE OF ACCREDITATION

Electronics - Printed Board Assemblies

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This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: www.eAuditNet.com - Online QML (Qualified Manufacturer Listing).

In recognition of the successful completion of the PRI evaluation process, accreditation is granted to this facility to perform the following:

AC7000 - AUDIT CRITERIA FOR NADCAP ACCREDITATION

AC7120 Rev E - Nadcap Audit Criteria for Printed Board Assemblies (to be used on audits on/after 9 April 2017) (CANNOT BE COMBINED WITH AC7119 or AC7121)

- 03-Company Information (mandatory)
- 04- General (mandatory)
- 05- Outsourced Processes (mandatory)
- 06- Process Control (mandatory)
- 07- Visual Acuity (mandatory)
- 08- Customer Data (mandatory)
- 09- Electrostatic Discharge (ESD) (mandatory)
- 10- Material Management (mandatory)
- 11 Moisture Sensitive Components and Materials
- 12- Kitting
- 13.1– In–Process Verification / Inspection: General (mandatory)
- 13.2—In-Process Verification / Inspection: Visual (mandatory)
- 13.3- In-Process Verification / Inspection: AOI
- 13.4– In-Process Verification / Inspection: X-Ray
- 14.1- Secondary Assembly: Mechanical Part Installation
- 14.2- Secondary Assembly: Wire Cutting & Stripping
- 14.3 Secondary Assembly: Jumper Wire Installation
- 14.4- Secondary Assembly: Stranded Wire Tinning
- 14.5- Secondary Assembly: Compliant Pin (Press Fit) Connector Installation
- 14.6- Secondary Assembly: Bonding
- 15- Cleanliness
- 16– Final Inspection (mandatory)
- 17– Rework (mandatory)

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AC7120/1 - Nadcap Audit Criteria for Circuit Card Assemblies Personnel Qualification

AC7120/2 - General Soldering of Printed Board Assemblies (to be used on audits on/after 9 April 2017)

03- General (mandatory)

04- Electronic Component Preparation for Preassembly Process

05.1- Part Placement: General (mandatory)

05.2- Part Placement: Manual

05.3- Part Placement: Clinched Component Leads

06- Gold Removal

07- Build Through / Build Short

08- Hand Soldering

AC7120/3 - Plated Through Hole Technology (to be used on audits on/after 9 April 2017)

03.1- Part Placement: Operator-Assisted (Semi-Automated)

03.2- Part Placement: Automated Part Placement of PTH Components

04- Wave Soldering

05- Selective Soldering

AC7120/4 Rev A - Surface Mount Technology (to be used on audits on/after 3 March 2019)

03- Preparation

04– Stencil Printing (mandatory)

05– Automated Part Placement (mandatory)

06- Reflow Soldering (mandatory)

AC7120/5 - Mixed Metallurgy for BGAs (to be used on audits on/after 9 April 2017)

03- Lead-Free Control Plan (LFCP) (mandatory)

04– Qualification for Assemblies Containing BGAS (mandatory)

AC7120/6 - Lead Free Soldering (to be used on audits on/after 9 April 2017)

03- Lead-Free Control Plan (LFCP) (mandatory)

04- Process Control (mandatory)

05- Training (mandatory)

AC7120/7 - Conformal Coating of Printed Board Assemblies (to be used on audits BEFORE 05-Nov-2023)

04- Material (mandatory)

05- Material and Equipment Compatibility (mandatory)

06- Preparation / Cleaning (mandatory)

07– Application / Drying / Curing (mandatory)

08- Thickness (mandatory)

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- 09– Inspection (mandatory)
- 10- Rework (mandatory)
- 11- Training (mandatory)

AC7120/10 - Final Testing (to be used on audits on/after 9 April 2017)

04- General

AC7120/12 - Nadcap Audit Criteria for Depaneling (to be used on audits on/after 30 June 2019)

- 03.1– Inspection (mandatory)
- 09- Pizza Cutter ('V' Groove Depanelizer)
- 12- Preservation and Packing of Depaneled Images (mandatory)

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