





U.S. Circuit, Inc. will continually strive to be a leader in the printed circuit board manufacturing industry by providing the highest quality products and the best customer service possible. We will succeed by establishing long-term parnterships with our customers, vendors, and employees.

VISION

To be recognized as an industry leader delivering quality products on time, U.S. Circuit, Inc. will steadily grow and prosper.



U.S. Circuit's customer service department is committed to providing customers with accurate and timely communication in a pleasant and professional manner.







SALES AND ENGINEERING DEPARTMENT

Barcode Interface

Computerized Production Planning System

Computerized Sales Management System

Si 6000b Controlled Impedance Design System

CAM DEPARTMENT

3 Orbotech Genesis 2000 Cam Stations and 3 CAM350 Stations EIE RP362-DL Auto Loader Raster Photoplotter Glunz & Jensen 28" Film Processor

PROGRAMMING. DRILLING & FABRICATION DEPTS.

Ceco Hole Checker 8 Auto Optical Inspection

Multiline XRT System 7000 X-Ray Post Lamination

Tooling and Inspection

1 Excellon Concept 129 with built-in x-ray camera (180k RPM)

1 Excellon Concept 689 (180k RPM)

3 Excellon Mark VII Driller

Excellon Mark VI Driller/Router

Excellon Ex 200 Driller/Router

2 Excellon Mark V Driller/Router

Laser Micrometer

Accuscore Scoring Machine

Automatic Stacking Machine

Glenn Brook Real Time X-Ray

DNC File Server

Bevelers, Edgemate, Shear Machine

Plasma Etchback (March Plasma Systems)

DRY FILM AND PHOTO DEPARTMENTS

Maskless Lithography Direct Digital Imaging System

Multiline Semi-Automatic Artwork Punch

Multiline Automatic Post-Etch Punching Of Inner Layers

4 Multiline Glass Phototools

2 ORC Exposure Unit 5kw

2 Hakuto Mach 610i Auto Cut-Sheet Laminators

3 Western Magnum Substrate Cleaner Line

Chemcut 547 Semi-Automatic Developer

MULTI-LAYER LAMINATION DEPARTMENT

2 Fully Automated TMP Four Opening Vacuum Lamination Presses

2 TMP Cold Presses

Complete Multiline Registration System

Multiline De-Pinner

Ceco Overarm Digital Micrometer

PLATING DEPARTMENT

Semi-Automatic ENEPIG / ENIG Line

Semi-Automatic Immersion Silver Line

Potassium Permanganate De-Smear Line

2 1500 Gallon Direct Impingement Copper Plating Line

1 1500 Gallon Direct Impingement Tin Plating Line

Semi-Automatic Electroless Copper Line

Chemcut Semi-Automatic Conveyorized:

- · DES Line (develop/cupric chloride etc & strip)
- · Oxide Replacement Line
- · Inner Layer Clean Line
- · Film Stripping Line
- · Ammonia Etching Machines
- · Tin Stripper

Double-Sided Scrubber/Deburrer Dryer Units

Chemcut Pre-Clean and Flux Coater

Quick Silver SM Hot Air Solder Coater Machine

Marseco Semi-Automatic Post Cleaner System

Kenetic Ionic Exchange Fully Automated Computerized Wastewater Treatment System



SOLDERMASK/SILKSCREEN DEPARTMENTS

DP-1500-2x Dual Sided LPI Soldermask Coater

Orbotech Inkjet Legend Printer

TC-150 Conveyorized Oven

Two Tc-120 Conveyorized Ovens

Olec Ap30-8000 Super Eight Exposing Unit

NuArc Flip Top 4k

Grieve Sc-350 82" X 64" X 32" Oven

Proheatco 82"X 64"X 42" Oven

Chemcut 547 Semi-Automatic Developer

3 24"X 30" Screen Tables

24" I.S. Pumice Scrubber Dryer

Western Magnum Substrate Clean Line

Complete Load and Unload System

Circuit Automation DP-VDM Vacuum System

QUALITY CONTROL DEPARTMENT

Polar Inst. CITS 500s Controlled Impedance

(TDR) Test System

3 atg A5 Flying Probe Test Systems (Netlist Test)

3 Camtek Orion 804 WR (AOI)

Camtek Orion 868 (AOI)

Buehler Cross-Section Laboratory

Microscope with Digital Capture

Accu-scope Microscope

CMI PTX Series for Measuring Copper Thickness

CMI 900 XRF for Coating Thickness Measurement

YSC Digital Video Microscope

Nikon Sm2-10 Zoom Microscope

MicroDerm 500 for Measuring Gold/Nickel Thickness

Complete Chemical Analysis Laboratory

CVS Unit Including Automatic Chemical Analysis

Buck Scientific AA (Atomic Absorption) Spectrophometer

Thermo Spectronic 20d+ Spectrometer

Keaco Omega Meter 600R Iconograph



GENERAL INFORMATION

Founded In 1985

Product: Commercial & Military Printed Circuit Boards

40,000 (Custom built 2005)

37,500 Sq. Ft. Manufacturing Area & Quality Control

2,500 Sq. Ft. Administration Area

20 Miles North of San Diego

BOARD CRITERIA

Panel Size: 18" x 24" Max.

Overall Thickness: .005-.250" Max.

No. Of Layers: 24 Max.

Line Width/Spacing: .003" Min. (Inner Layer)

.003" Min. (Outer Layer)

Drilled Hole Size: .006" Min.

Inner Layer Core Thickness: .003" Min.

Copper Weight: .25-8 Oz. Max.

LEAD TIMES

Standard Delivery 3-4 Weeks

"Quick Turn" Upon Request

MATERIALS

FR-4 Laminate (RoHS Compliant)

High Temp FR4

Getek Laminate

Rogers Type 4003, 4350

Nelco N4000-13

Polyimide

Halogen Free

PROCESS CAPABILITIES

Maskless Lithography Direct Digital Imaging System

Artwork Generated via Gerber with EIE RP362-DL

Multiline Semi-Automatic Film Punch

Dryfilm Imaging

Post-Etch Punching Of Cad Generated Artwork And Layers

Automatic Optical Inspection (AOI) On Four Camtek Orion 804

Vacuum Assisted Lamination with Two Hot And Two Cold Presses

Drilling With Complete Electronic Programming Functions

Conveyorized AOI Inspection

Plasma Etch

Potassium Permanganate desmear System

Electroless cuposit Line

Direct Impingement Copper Plating Line

Tin Lead Hot-Air-Leveling (Hot-Air Solder Leveling—HASL) And

Lead-Free HASL

Electroless Gold, Immersion Gold, Hard and Soft Gold (Full Body),

ENEPIG Plating (Electroless Nickel, Electroless Palladium,

Immersion Gold)

Immersion Silver, Immersion Tin, OSP and Carbon Paste

Liquid Photoimageable Soldermask (LPI Mask)

QUALITY CONTROL

ITAR Registered since 2009

MIL-PRF-55110 G with Etchback Approved for both GFN & GIN materials

ISO 9001:2008 Registered

IPC-A-600 Quality and Manufacturing Standard

UL Approval Rating 94v-0

Polar Instruments TDR for Impedance Control

3 atg A5 Flying Probe Test System (Netlist Test)

TrueChem Wet-Process Statistical Process Control (SPC)

Mil-C-45662 Equipment Calibration System

Microsection Preparation and Evaluation (Full Group 'A' Testing)



UNDERWRITERS LABORATORIES, INC.

Certificate of ISO 9001:2008 Registration

DEFENSE LOGISTICS AGENCY

MIL-PRF-55110G, Type 3 GI Polyimide Material Certificate of Qualification

DEFENSE LOGISTICS AGENCY

MIL-PRF-55110G, Type 3 GFN FR-4 Material Certificate Of Qualification

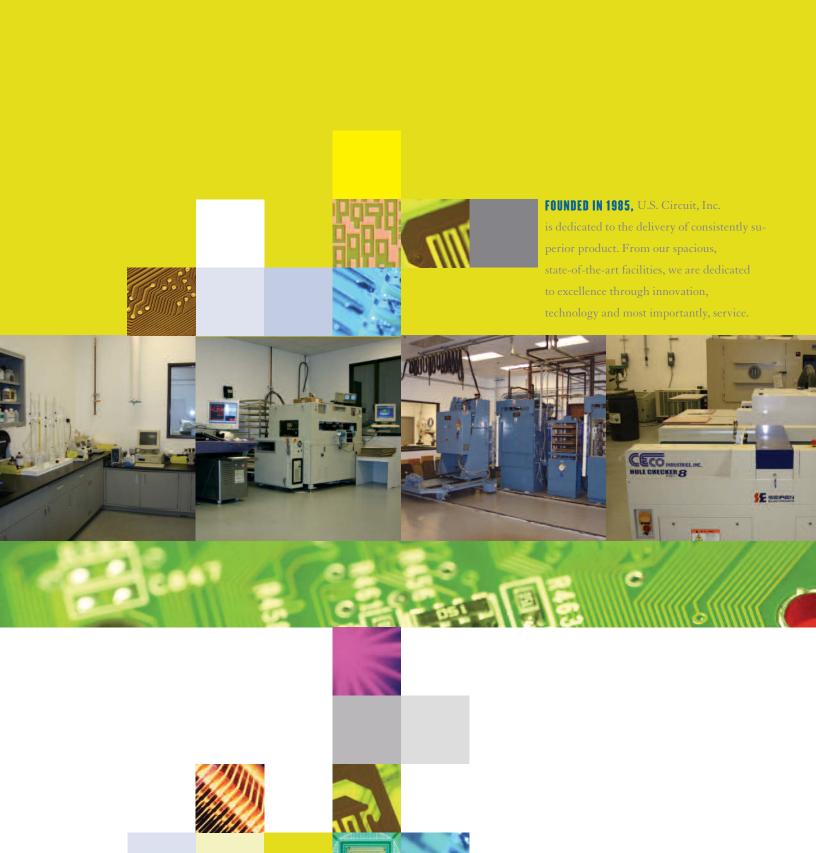
ITAR REGISTERED

Certificate of Registration

Please visit our website for the most recent certifications.









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