

MANUFACTURERS OF HIGH QUALITY

PRINTED CIRCUIT BOARDS

ESTABLISHED IN 1983

25,000 SQUARE FOOT FACILITY

ISO 9001:2000

TYPE OF BUSINESS

SINGLE SIDED: 5%

DOUBLE SIDED: 40%

MULTILAYER: 55%

PROTO-TYPE LEAD TIMES

SINGLE & DOUBLE SIDED: 12 HOURS – 1 WEEK

FOUR LAYER BOARDS: 48 HOURS – 1 WEEK

SIX LAYER & UP: 72 HOURS – 1 WEEK LEAD TIMES

PRODUCTION LEAD TIMES

SINGLE SIDED: 2-3 WEEKS

DOUBLE SIDED: 2-3 WEEKS

MULTILAYER: 3-4 WEEKS

OFF-SHORE: 4-5 WEEKS

SPECIALIZE IN FABRICATION OF OVERSIZED BOARDS 20" X 34"

LABORATORY AND CERTIFIED CHEMIST IN HOUSE
STATISTICAL PROCESS CONTROL THROUGHOUT
FULLY AUTOMATED BAR CODE TRACKING SYSTEM

ALL DATA RECEIVED VIA E-MAIL

sales@circuitw.com

CAPABILITIES

ORDER ENTRY / PRE-ENGINEERING

STATE OF THE ART COMPUTERIZED ORDER ENTRY. DEPARTMENT TRACKING THROUGH OUR BAR CODE SYSTEM

FILES ACCEPTED VIA E-MAIL AT CWI@CIRCUITW.COM FOR IN HOUSE PHOTOPLOTTING. ABILITY TO PLOT DRAWINGS USING CUSTOMER HPGL FILES ON H.P. LASER JET PLOTTER ELIMINATING THE NEED FOR BLUE PRINTS.

IF REQUESTED, CHECK PLOTS ARE E-MAILED TO CUSTOMER FOR APPROVAL PRIOR TO BEING RELEASED TO THE PRODUCTION FLOOR. ONCE APPROVAL IS RECEIVED, THE JOB IS RELEASED TO PRODUCTION.

ARTWORKS CAN BE ACCEPTED IN 1:1 FORMAT, POSITIVE OR NEGATIVE. FILM ARTWORK WILL BE SENT OUT FOR CONVERSION TO GERBER DATA AT AN EXTRA CHARGE. CUSTOMER WILL RECEIVE COPIES OF GERBER DATA FOR THEIR PERMANENT FILES.

DRILL FILES ARE CHECKED AGAINST DRAWINGS AND ARTWORKS TO ENSURE HOLE COUNTS ARE CORRECT AND THAT THE TYPE OF HOLE, (PLATED THROUGH OR NOT), ARE SPECIFIED CORRECTLY AND MATCH ALL DOCUMENTS.

MATERIALS

MATERIALS AVAILABLE:

FR4, HI-TEMP FR4'S, 170Tg AND 180Tg,
370HR, 185HR, ROGERS 4000 SERIES
SELECT TEFLON'S

THICKNESSES FROM .005" TO .180"

CU WEIGHTS:

H/H, 1/0, 1/1, 2/0, 2/2 & 3/3, PLATED UP TO 6 OZ.

MULTILAYERS

MAXIMUM LAYER COUNT 16

STANDARD CORES USED

4 LAYER: .028 1/1

6 LAYER: .014 1/1

8 LAYER: .008 1/1

10 LAYER: .005 1/1

12 LAYER: .004 1/1

WE RECOMMEND ELECTRICAL TESTING OF ALL MULTI-LAYERS

DRILLING

SMALLEST HOLE SIZE DRILLED: .007"

CASTELLATIONS

HOLE TO BOARD EDGE TOLERANCE: +/- .005

2ND STAGE HOLE TO 1ST STAGE HOLE TOLERANCE: +/- .005

MINIMUM SLOT WIDTH: .027

MINIMUM SLOT RADIUS: .016

MAXIMUM DRILL STACK HEIGHT: .031 (4 D/S) (3 M/L),

.062 (3 D/S) (2 M/L) .093 (2 D/S) (1 M/L), .125 (1)

MAX. DRILL STACK HEIGHT WITH HOLE SIZE UNDER .018: (1)

MAX. DRILL STACK HEIGHT WITH HOLE SIZE OVER .020: (2-3)

ROUTING BOARD EDGE TOLERANCE: +/- .005"

SCORING OR JUMP-SCORING

BEVELLED EDGE

IMAGE

COPPER IMAGE: MINIMUM LINE WIDTH AND SPACING:

UL APPROVED TO .004"

PRODUCTION CAPABILITIES .005"

HOLE TO PAD REGISTRATION TOLERANCE: .005"

PLATING

COPPER PLATING

SPEC FOR 1 OUNCE FINISH = START WITH ½ OUNCE COPPER

PLATING IN HOLE: 1 OUNCE.

PLATING ON SURFACE: 1.5 OUNCES.

SPEC FOR 2 OUNCE FINISH = START WITH 1 OUNCE COPPER

PLATING IN HOLE: 1 OUNCE.

PLATING ON SURFACE: 2 OUNCES.

EDGE PLATING

GOLD TAB PLATING

GOLD PLATING = .0003 OR .0005

NICKEL PLATING = .00001.

BOARD FINISHES AVAILABLE:

STANDARD HASL

OMNIKRON WHITE TIN

ELECTROLESS NICKEL IMMERSION GOLD

CARBON INK

IMMERSION SILVER

LEAD-FREE HASL – SN100CL