CUSTOMER SENDS REQUEST FOR QUOTE

SALES RECIEVES REQUEST FOR QUOTE AND INITIATES JOB PROFILE

NEW CUSTOMER

NO

YES

ALL SPEC.,DRAWINGS & CAD FILES ARE REVIEWED PRIOR TO TAKING ORDER

CUSTOMER SENDS DOCS AND CAD FILES

CONTRACT ADMINISTRATOR REVIEWS DOCS, AND CAD FILES FOR MANUFACTURBILITY

SUPPLIED CAD & DOCS ARE ACCEPTABLE

NO

CUSTOMER IS NOTIFIED OF MISSING CAD INFO OR REQUIRED DOCS

YES

COMPLETE PACKAGE IS RELEASED TO PRE-PRODUCTION ENGINEERING

JOB IS PANELIZED AND THE DRILL,ROUT,AND OR SCORE PROGRAMS CREATED ALONG WITH SHOP TRAVELER

INSPECTION OF WORKING TOOLS

ARTROOM RECIEVES PACKAGE FROM P.P.E. INSPECTS PHOTO PLOTS AND MAKES Q.C. PACKAGE

COMPLETED DOC. PACKAGE IS SENT TO DOC. CONTROL FOR STORAGE OF DOC TOOLS

QTY OF TOOLS INSP.AND LOGGED

PRODUCTION CONTROL RELEASES JOB TO MANUFACTURING FLOOR

MATERIAL IS PULLED FOR PRODUCTION

PRODUCT TYPE

MULTI-LAYER

DOUBLE SIDED

MATERIAL IS CLEANED

MATERIAL IS LAMINATED W/ RESIST & EXPOSED

DEVELOPED ETCH & STRIP

POST ETCH PUNCH

AUTOMATIC OPTICAL INSPECTION

AOI

MULTI-BOND LAYERS

LAY-UP AND LOAD IN PRESS

DEPIN AND PREP FOR DRILL

MATERIAL IS STACKED & PINNED

PRODUCT IS DRILLED

X-RAY INSPECT

PRODUCT PRESSURE RINSED AND DEBURRED

PLASMA ETCH

METALIZATION

LAMINATE PANEL WITH PHOTO RESIST

EXPOSE IMAGE AND DEVELOP

POST DEVELOP INSPECTION

PATTERN PLATE & TIN PLATE

STRIP & ETCH

INPROCESS INSPECTION

TIN STRIP AND PUMICE SCRUB

INPROCESS INSPECTION

CARBON INK OR VIA PLUG

NO

MASK TYPE

NO

COAT PANELS WITH LPI MASK AND TACK DRY PANELS

EXPOSE AND DEVELOP SOLDERMASK

INSPECTION AFTER DEVELOP

SILKSCREEN AND FINAL BAKE PRODUCT

FINAL COATING

ENIG OR SILVER

H.A.S.L.

INSPECTION PROCESS

TAB NICKLE AND GOLD

YES

VIA PLUG / CARBON INK

BAKE

YES

BAKE CARBON INK & CHEM CLEAN

YES

PROCESS THROUGH DEEP GOLD

LAMINATE PANELS FOR GOLD FINGERS

ROUT,SCORE AND OR BEVEL

NO

INSPECTION PROCESS

BOARDS TO BE WASHED BEFORE FINAL

TESTED BOARDS

FAILED

TROUBLE SHOOTS

PASS

FINAL INSPECTION

PACKAGE AND SHIP PRODUCT

INSPECTION PROCESS

PhoTronics

LEGEND

SALES FUNCTION

MANUFACTURING PROCESS

FINAL INSP. PROCESS

IN PROCESS INSPECTION

PROCESS DECISION

DECISION CHOICE