

## Instructions for pre-sensitised PCB

1. **PREPARE** your circuit artwork on a transparent film.

### 2. EXPOSING

- a/ Cut the board to necessary size.
- b/ Tear off the protection film on the board.
- c/ Expose the board in PC1295 EXPOSURE BOX for 60-90 seconds.  
(see exposure box instructions)

or

- a/ Position your artwork on top then keep flat using a glass sheet as a top layer to make a good contact between the film and surface of board.
- b/ Place a 10 or 15 watt fluorescent table lamp above the glass at a distance of  $5\text{cm} \pm 1\text{cm}$ .
- c/ Turn on the light for 8-10 minutes. (If the board width is over 10cm, divide the board into two sections then expose 6/8 minutes each)

Note: \*Good contact between the film and the board is very important.

\* If the distance between the light source and the board, is doubled, triple the exposure time.

### 3. DEVELOPING

Prepare the solution:

- a/ Pour one litre (1000 c.c.) of water into a small flat plastic tray.
- b/ Pour whole pack of DP-50 powder (50g) into the water and slightly shake the tray until completely dissolved (or 4 to 1 ratio)

Developing:

- a/ Place the exposed pre-sensitised PCB in the solution and slightly shake the tray until the tracks area appear and there is no more blue emulsion coming from the exposed area of the board.
- b/ Remove and rinse the board under running water to stop the developing process.

Note: \* The correct ratio between developer and water is important but not critical, a maximum tolerance of  $-10\%$  to  $+30\%$  is allowed.

\* A normal developing time is from 30 seconds to 2 minutes. If the developing time is less than 30 seconds, the unexposed parts of the board will be easily damaged due to a too concentrated solution.

\* The developing process should take place at room temperature. Higher temperature will shorten the developing time.

\* The useable time of solution is one day after use.

\* The developing ability of each pack of DP-50 is about 20 PCB's (10 x 15 cm)

### 4. TROUBLE SHOOTING

Small breaks or skips on the circuit pattern can be corrected and repaired by applying PC1106 DALO PEN.

5. **ETCH** the board using PC1120 AMMONIUM PERSULPHATE.