

## PROCESSING INSTRUCTIONS

With Microtrak Pre-Sensitive PCB material it is very important to ensure that you have a good opaque artwork which blocks out UV light. This can be achieved with our inkjet A4 and A3 Printer and Jetstar premium film. - **please ask for details**

58-5301-1 A4 PRINTER WITH 10 SHEETS A4 JETSTAR PREMIUM

100-075 JETSTAR PREMIUM A4 10 SHEET PACK

100-076 JETSTAR PREMIUM A4 100 SHEET PACK

58-5302-1 A3 PRINTER WITH 10 SHEETS A3 JETSTAR PREMIUM

100-077 JETSTAR PREMIUM A3 10 SHEET PACK

100-078 JETSTAR PREMIUM A3 100 SHEET PACK

Alternatively if you wish to use a laser printer then we would recommend our LaserStar film

100-062 Laserstar Film (A4) (10 Shts)

100-063 Laserstar Film (A4) (100 Shts)

100-065 Laserstar Film (A3) (10 Shts)

100-064 Laserstar Film (A3) (100 Shts)

### Microtrak PCB material should be processed as follows:

#### 1) Mix the developer as follows:

4007 Photoresist universal powder developer part no: 250-350

Add 50 grams of the powder to 1 litre of hot tap water. Stir the powder until it has all dissolved in the water. Allow the developer to cool down to room temperature and use between 18 and 25°C.

4006 Liquid Photoresist developer concentrate part no: 250-351

Add 80 ml of developer concentrate to 920ml of water to make 1 litre of working solution. Use between 18 and 25°C.

#### 2) Exposing the Board.

It is very important to ensure that the board is fully exposed. Typically we recommend exposure times of 2½ - 3½ minutes in our LV202E 2 tube exposure unit and 1½-2½ minutes in all our other exposure unit using our clear inkjet film. However, if you are using a more opaque film such as tracing paper exposure times will need to be longer. This would have to be determined by trial and error. NB if the resist is not exposed for long enough it will be difficult to develop all resist completely.

N.B. Always ensure the exposure unit has been warmed up before using it order to ensure the tubes are giving their maximum output of UV light.

### 3) Developing

Place the board in the developer and leave for 30 to 90 seconds depending on the temperature of the developer.

N.B. the higher the temperature the quicker the development. Agitate the board in the developer every 10-15 seconds to ensure even development.

### 4) Remove the board from the developer and rinse thoroughly.

Tip for checking board after first exposure and development

To ensure the board has been exposed and developed properly place the board in the ferric chloride for 30 to 60 seconds then rinse thoroughly. All the areas of copper that have been developed away should have turned a dull matt pink colour. If there are any areas which are a shiny gold colour it means that the board has not been exposed for long enough or the developer needs replacing.

### 5) Strip the resist

After etching the photoresist can be stripped off using our 250-360 PC155 stripper or solvent such as our universal solvent or acetone.

### Chemistry

250-350	SenoUniversal Developer Solution 500g - makes 10 Litres Seno
250-351	Concenrate Developer Solution 1Ltr - makes 10 litres PC155
250-360	PhotoResist Stripper 1 Ltr - makes 5 Litres SN4010 Universal
250-450	Solvent 50ml
250-353	Seno PC145 Ferric Chloride Etchant Solution - 5Litres
	*UK ONLY - MAX ORDER QTY 3 per delivery by normal couriers