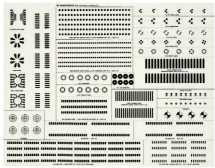


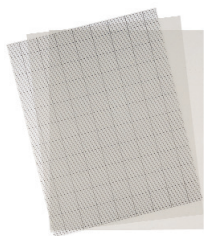
## DRAFTING AIDS



### Circuit Board Drafting Patterns

An 8-1/2" x 11" sheet containing two dozen of the most commonly used pre-spaced component configurations. Self-adhesive pads may easily be removed from master sheet with printed circuit knife and placed upon Mylar® positive artwork. A highly refined process and ink assures true opacity and the excellent definition necessary for quality printed circuit work.

**Part No. 21-677**



### Mylar® Layout Film

Package of 2 transparent mylar sheets with clear finish plus one grid pattern sheet. Std. 0.10" spacing.

**Part No. 22-290** 8 1/2" x 11"

Mylar is a registered trademark of DuPont.

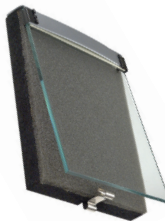


### Etch Resist Ink Pens

Black felt tip pens for marking nomenclature and touching up photo artwork or etch resist circuits directly on the PC board or on the positive. Dries instantly. Easy application. Can be removed with Stripping Solution (22-240) or alcohol.

**Part No. 22-220** Std. Size – draws lines approx. 1/32" wide

**Part No. 22-222** Fine Line – draws lines as thin as 1/64" wide



### Exposing Frame

Assures tight contact between positive or negative and the photosensitive material. Results in perfect transfer of circuit image to the board.

**Part No. 22-393** For boards up to 10" to 12"

## PC DEVELOPING & ETCHING

### Positive Type Developer Concentrate



For developing photo sensitized PC boards coated with positive type etch resist. To be diluted with 9 parts of water to 1 part of developer. 6 oz. will develop 10 to 20 sq. ft. of PC board.

**Part No. 22-225** 2 fl. oz. Bottle

**Part No. 22-226** 6 fl. oz. Bottle

### PC Board Etching Solution



This ferric chloride solution is one of the most effective and safest etching materials for copper clad PC boards. 6 oz. will etch about 180 sq. inches of PC board. Use only in plastic or glass trays. pH. 1.57

**Part No. 22-237** 6 fl. oz. Bottle

**Part No. 22-238** 32 fl. oz. Bottle

**Part No. 22-239** 1 Gallon Container

### Etching Solution Heater



Fits in tank and heats solution up to 38°C (100°F). Used to further reduce etching time. Built-in adjustable thermostat controls temperature continuously to 100°F. 120V AC/100 W Max.

**Part No. 22-392**

### Professional PC Board Power Etching System



A semi-automatic etching device for use in labs, schools, prototype shops and for limited PC board production. Reduces etching time to minutes. Air pump agitates etching solution for fast, very even etches. Handles up to two 8" X 10" PC boards at a time, either single or double sided. Tank comes with a tip-proof wire stand that can remain portable or attached to the bench with screws. For professional labs, it can be mounted as a bench well. Boards fit into a submersible rack with handles that keep hands away from the etchant as well as separating the PC boards. Lid prevents splashes, reduces evaporation, and can be turned upside down and used as an auxiliary tray.

Kit contains:

1 Etching Tank and Reservoir Lid

(12"H x 2-1/2"W x 10-1/2"L)

Molded Polyethylene – ABS PC Board Holder

Capacity – 1.25 Gallons of Etching Solution

1 Etch-O-Matic Power Agitating Pump, 120V AC

Operation

1 Permanent or Portable Tip-Free Base

1 PC Board Holder and Handle

4 Feet of Supply Hose

**Part No. 22-394**