

# PRINTED CIRCUIT ACCESSORIES

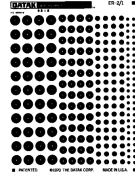
## DIRECT ETCH RESIST PATTERNS AND KITS

Datak Direct Etch Patterns allow you to make PC boards without creating artwork. Apply DE-series patterns directly to the copper PC board surface by rubbing them down in the circuit pattern that you want. Connect between component patterns either with rub-down, DE-series resolution is superb; resist lines down to .015" etch cleanly with about .001" undercut in a manual etch bath; far better in a spray etch tank.

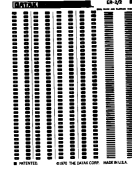
### INTRODUCTION

Direct Etch resist patterns are supplied in sets on individual carrier sheets like those shown to the right. Most sets contain enough patterns to make dozens of average size PC boards. The kits listed below offer a quick-start, money-saving way to begin. On the following pages are listed numerous patterns available separately; a variety that covers all types of components.

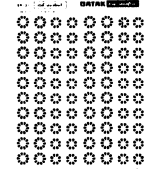
The Datak Direct Etch patterns are supplied on a semi-transparent, blue-tinted carrier sheet and may be burnished down either to a copper surface, or to drafting film to create original artwork.



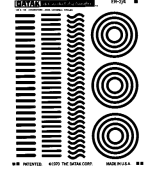
Donuts .080", 1/8", .188", 1/4" Dia



DIP's Flatpack or SO pads, 2 sheets



8 and 10 pin round can IC's



.156", .125" con. .062" patterns

### SMALL DIRECT ETCH KIT

kit containing 8 sheets and 2 rolls of drafting tape, 1/16" and 1/32" widths. The patterns are fairly good sampling that will be needed for most small circuits using common components such as IC's, resistors, transistors etc. Very economical.



No. ER-2 - Small Direct Etch Kit

### TWO HANDY DIRECT ETCH FILLERS KITS ASSORTED DONUTS PADS

The most needed Direct Etch pattern, this kit contains a wide range of donuts on four DE-series sheets.

#### No. ER-13 - Assorted Donut Pads

#### DIP, FLATPACK and SO PADS

This is a four sheets assortment of the most needed IC pads for DIP's and more. The larger dips can be used in part to make smaller size; i.e. 14 may be used to make an eight etc...

#### No. ER-14 - Dip, Flatpack Kit

### COMPLETE PRINTED CIRCUIT KIT

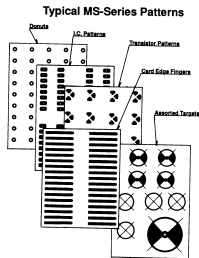
#### Includes PC blank boards

The Datak ER-1 kit contains all of the items needed to make several PC boards. Included are: a large assortment of resist patterns, universal DIP's, assorted donut sizes, transistors, round can IC's, dry transfer lines and resist tapes. Four blank copper boards and ferric-chloride etchant concentrate are included in this comprehensive kit; the plastic packaging box doubles as an etch tray



No. ER-1

### MS-SERIES DATAK PC BOARD DRAFTING PATTERNS



Part No.	DESCRIPTION	Qty. / Pack	Part No.	DESCRIPTION	Qty. / Pack
MS1	Donuts .080" OD x .020" ID	300	MS15D	*16-Pin narrow dual in-line IC patterns, on carrier film	32
MS2	Donuts .080" OD x .031" ID (0.20" x 0.30" centers)	380	MS16D	*16-Pin narrow DIP pads with through traces	32
MS3	Donuts .093" OD x .031" ID (0.20" x 0.30" centers)	380	MS17D	.156" spaced card edge connector fingers	192
MS4	Donuts .100" OD x .031" ID (0.20" x 0.30" centers)	380	MS18	.125" spaced card edge connector fingers	240
MS5	Donuts .125" OD x .031" ID (0.20" x 0.30" centers)	380	MS19D	.100" spaced card edge connector fingers	304
MS6	Donuts .150" OD x .031" ID (0.20" x 0.30" centers)	380	MS20	Assorted targets and cross hairs	40
MS7	Donuts .187" OD x 0.31" ID (.250" x .250" centers)	360	MS015	Black PC flex tape, .015" x 720"	-
MS8	Donuts .218" OD x 0.31" ID (.312" x .280" centers)	240	MS031	Black PC flex tape, .031" x 720"	-
MS9D	Donuts .250" OD x 0.31" ID (.400" x .400" centers)	160	MS040	Black PC flex tape, .040" x 720"	-
MS10D	TO-99 8-Pin patterns, on carrier film	96	MS062	Black PC flex tape, .062" x 720"	-
MS11D	TO-100 10-Pin patterns, on carrier film	96	MS080	Black PC flex tape, .080" x 720"	-
MS12D	TO-18 3-Pin patterns, on carrier film	144	MS093	Black PC flex tape, .093" x 720"	-
MS13D	TO-5 3-Pin patterns, on carrier film	84	MS125	Black PC flex tape, .125" x 720"	-
MS14D	*16-Pin dual in-line IC patterns, on carrier film	32			

\*Note: The 16-Pin IC patterns may be cut down for 14, 18-pins etc..

User Note: The above MS-Series sets Nos. MS1 thru MS9 and MS17, 18 and 19 are dry-transfers and may be used on the copper board as an etch resist or as drafting patterns. The other numbers are on a transparent carrier film and may be used only for PCB artwork.

## DIRECT ETCH MASTER ASSORTMENT

The Direct Etch Master Assortment is a comprehensive kit containing the complete range of DE-series patterns. Included are donut pads, SMD (surface mount) footprints and literally all of the configurations considered to be standard in the industry. Additional items that you will need are burnishing tools such as Datak Nos. 04158 and 04159 and a quality modelers's knife such as Datak No. 12161. The DE-series may also be applied to drafting film such as Datak No. MS-1 (although we recommend the use of Datak JotDraft products for printed circuit artwork.)

Complete Kit - No. DE-973