

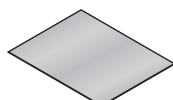
# MG CHEMICALS Copper Clad Boards & Prototyping Products



This product is RoHS compliant.

## COPPER CLAD BOARDS

We offer 1/16, 1/32 and 1/64 FR4 laminate with 1 ounce copper per square foot. This flame retardant laminate is translucent in color and made of continuous woven glass cloth impregnated with epoxy resin. The copper on 1 ounce board is 1.34 mil thick (0.0341mm). The boards are made of FR4 which is a flame retardant version of G-10 material. Developed specifically for the circuit processing industries requirements. Complies with Mil-S-13949H-GFK. Provides ultraviolet blocking and fluorescence when using automated optical inspection (AOI). UL #E37002A



For quantities greater than listed, call for quote.

MOUSER STOCK NO.		PCB Thickness	Dimension (in.)	Copper	Price Each	
Mfr.	Mfr. Part No.				1	5
<b>Single Sided</b>						
590—503		1/16"	3" x 5"	1oz.	3.30	3.13
590—540		1/16"	3" x 5"	1oz.	3.95	3.43
590—506		1/16"	4" x 6"	1oz.	4.06	3.86
590—509		1/16"	6" x 6"	1oz.	5.03	4.78
590—512		1/16"	6" x 9"	1oz.	7.13	6.77
590—515		1/16"	8" x 10"	1oz.	10.94	10.39
590—521		1/16"	12" x 12"	1oz.	14.29	13.57
590—586		1/32"	4" x 6"	1oz.	4.24	4.03
590—588		1/32"	6" x 9"	1oz.	7.46	7.08
<b>Double Sided</b>						
590—550		1/16"	6" x 6"	1oz.	5.70	5.42
590—555		1/16"	12" x 12"	1oz.	16.24	15.43
590—587		1/32"	4" x 6"	1oz.	4.65	4.41
590—589		1/32"	6" x 9"	1oz.	7.76	7.38

## DOUBLE SIDED COPPER CLAD BOARDS FOR LEAD FREE HIGH TEMPERATURE APPLICATIONS

Phenolic Glass Laminate with 1 ounce copper per square foot. Developed specifically for high temperature lead free applications.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		PCB Thickness	Dimension (in.)	Copper	Price Each	
Mfr.	Mfr. Part No.				1	5
590—532		1/16"	6" x 6"	1oz.	6.25	5.94
590—533		1/16"	4" x 6"	1oz.	8.46	8.04

## URETHANE CONFORMAL COATING

Ideal for extreme conditions. It is a durable finish product that provides a protective coating for printed circuit boards against moisture, corrosion, and thermal shock.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Size	Price Each	
Mfr.	Mfr. Part No.		1	5
590—4223-55ML		Bottle 55mL (2 oz.)	9.95	9.45

## ACRYLIC CONFORMAL COATING

Use to protect electric circuits against moisture, dirt, dust, thermal shocks, and scratches that could corrode, short circuit or otherwise damage the electric component. Super fast cure.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Size	Price Each	
Mfr.	Mfr. Part No.		1	5
590—419C55ML		Bottle 55mL (2oz.)	9.14	-
590—419C-340G		Aerosol 340G (12 oz.)	15.96	15.14
590—419C-1L		Liquid 1L (35 oz.)	43.90	41.69

## SILICONE CONFORMAL COATING

Ideal for high temperature environments. It is a flexible finish product that provides a protective coating for printed circuit boards against moisture, corrosion, and thermal shock.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Size	Price Each	
Mfr.	Mfr. Part No.		1	5
590—422B-55ML		Bottle 55mL (2 oz.)	9.95	9.45
590—422B-340G		Aerosol 340G (12 oz.)	20.20	18.64
590—422B-1L		Liquid 1L (35 oz.)	66.43	-

## CHAMOIS SWABS

Lint free, synthetic suede bonded to a bendable handle allowing access to hard to reach areas. Great for cleaning rotary audio, video and computer tape backup heads. Available single headed or double headed for economy.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Description	Price Each	
Mfr.	Mfr. Part No.		1	5
590—810D-15		Double head (15 pack)	9.43	8.99
590—810D-50		Double head (50 pack)	29.95	28.45
590—810D-500		Double head (500 pack)	257.03	244.95

## FOAM OVER COTTON SWABS

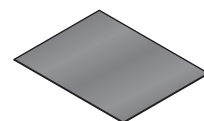
Shred resistant, 100% urethane foam heads with 100 PPI porosity over extra absorbent U.S.B pharmaceutical grade purified cotton. Bonded securely to a 6" birch staff. Compatible with most solvents.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Description	Price Each	
Mfr.	Mfr. Part No.		1	5
590—812-50		50 pack	17.95	17.06

## POSITIVE PRESENSITIZED BOARDS

Our presensitized boards provide high resolution and excellent fine line control. They are ideal for prototypes, small production runs, and student training. White protective peel-off liner is attached to protect board from incident light and scratching. We also offer a large thin (12 x 18 x 1/32 inch) cat#675 paper phenolic presensitized board (Easy Cutting!), perfect for cutting into smaller boards with no special equipment. Perfect for the classroom.

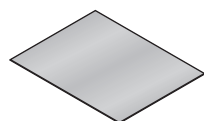


For quantities greater than listed, call for quote.

MOUSER STOCK NO.		PCB Thickness	Dimension (in.)	Copper	Price Each	
Mfr.	Mfr. Part No.				1	5
<b>Single Sided</b>						
590—603		1/16"	3" x 5"	1oz.	6.95	6.60
590—606		1/16"	4" x 6"	1oz.	7.45	7.08
590—609		1/16"	6" x 6"	1oz.	8.49	8.21
590—612		1/16"	6" x 9"	1oz.	12.46	11.82
590—687		1/32"	4" x 6"	1oz.	7.60	7.22
590—689		1/32"	6" x 9"	1oz.	12.45	11.82
<b>Paper Phenolic Single Sided</b>						
590—675		1/32"	12" x 18"	1oz.	26.95	25.60
<b>Double Sided</b>						
590—650		1/16"	6" x 6"	1oz.	11.65	11.06
590—660		1/16"	6" x 9"	1oz.	15.95	15.15
590—690		1/32"	4" x 6"	1oz.	15.95	15.15
590—698		1/64"	6" x 9"	1oz.	15.94	15.15

## 1/2 OZ. COPPER CLAD BOARDS

We offer 1/16", FR4 laminate with 1/2 ounce copper per square foot. This flame retardant laminate is translucent in color and made of continuous woven glass cloth impregnated with epoxy resin. The boards are made of FR4 which is a flame retardant version of G-10 material. Developed specifically for the circuit processing industries requirements. Provides ultraviolet blocking and fluorescence when using automated optical inspection (AOI). 1/2 ounce copper boards will significantly reduce required etching time.



For quantities greater than listed, call for quote.

MOUSER STOCK NO.		PCB Thickness	Dimension (in.)	Copper	Price Each	
Mfr.	Mfr. Part No.				1	5
<b>Single Sided</b>						
590—551		1/16"	6" x 6"	1/2 oz.	5.70	5.42

## PROTOTYPING KITS

### Professional Etching Process Kit: 416E

Etches copper clad circuits professionally. Accommodates two 8" x 12" 2-sided CCBs

- Includes:**
- 7 liter heavy duty Polyethylene etching tank
  - Sturdy mounting bracket
  - Clear acrylic lid
  - Heavy duty air pump
  - 3-way adjustable airline manifold
  - Triple line sparging unit
  - 200 watt side mounting immersion heater with quartz element and adjustable temperature control
  - Adhesive digital thermometer
  - Bag of vinyl gloves
  - Complete instructions
  - Maximum board thickness: .062"
  - Contains no chemical products



Etching Process Kit: 416E

### Economy Etching Process Kit: 416-ES

Ideal for Students and hobbyists. Accommodates two 8" x 9" 2-sided CCBs

- Includes:**
- 5 litre etching tank
  - Air pump and tubing
  - Sparging unit
  - Vinyl gloves
  - Complete instructions
  - Contains no chemical products



Economy Etching Process Kit: 416-ES

### Exposure Kit: 416-X

Convenient kit includes major components required to expose presensitized copper-clad boards.

- Includes:**
- Exposure Tube
  - Clear acrylic weight for artwork
  - Fluorescent light fixture with stand (brackets)
  - Complete instructions



Exposure Kit: 416-X

### Rub-On Etch Resistant Kit: 416ER

Includes 7 unique sheets of the most commonly used shapes in circuit board creation. Also comes with a sheet to custom cut your own shape.

- Features:**
- Perfect finish every time
  - Sharp edges
  - No printing or exposure required



MOUSER STOCK NO.	MG Chemicals Part No.	Description	Price Each
590-416ER	416ER	Rub-On Etch Resistant Kit	9.95
590-416E	416-E	Professional Etching Process Kit	184.99
590-416ES	416-ES	Economy Etching Kit	52.19
590-416X	416-X	Exposure Kit	52.19

MG Chemicals

Prototyping