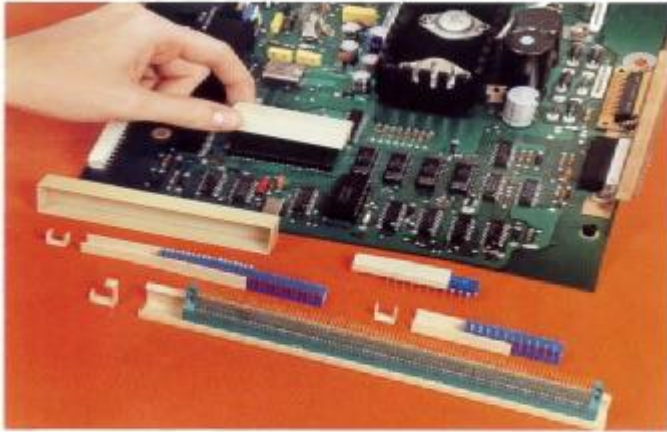


# GLASS EPOXY CIRCUIT BOARD MANUFACTURING AIDES

CONNECTOR PROTECTORS BOXES-CHANNELS



"U" or "C" shaped channels are rip cut from 18" lengths of square or rectangular glass laminated epoxy tubes. The inside base width of the channel is established by the connector width and the connector height establishes the legs of the channel.

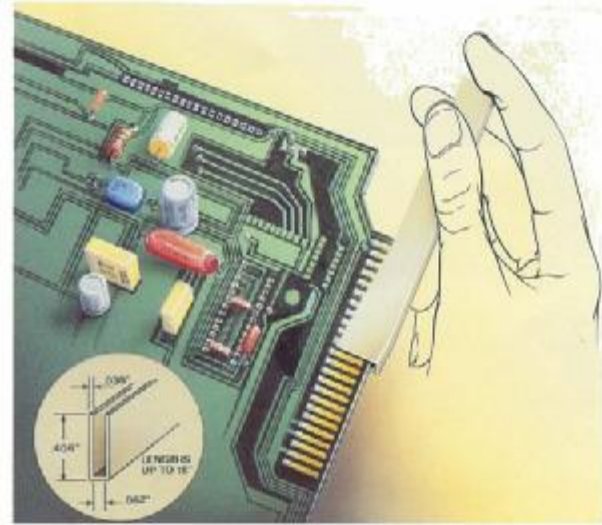
Box shaped connector protectors are short pieces of glass epoxy tubing cut to the connector height and closed on one end with a shoulder cut header plate.

The 155°C material has excellent mechanical strength, resistance to fluxes, solvents and the elevated pre-heat and soldering stages. Thickness is generally .030" which saves space over thicker molded boots and allows for a thermal air gap to further protect the connector. Ordering details in our Design Data Pamphlet and Mandrel List of open stock tools.

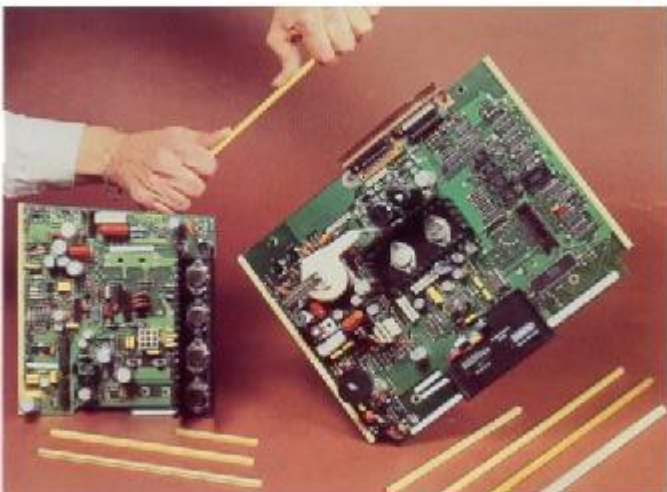
## GOLD FINGERS GLOVE CONTACT GUARDS

Gloves are "U" shaped fiberglass laminated epoxy channels with .062" ID wide base to fit over the edge of standard circuit boards. Fingers from .250" to .765" long fully sheath edge mounted gold contacts. Channels up to 18" long are made in .030" thickness to provide positive protection from the shock and impact of assembly tools. The very high short term heat distortion temperature and long term Class 155°C rating plus its ability to meet UL94V-0 tests, enable the glass epoxy to withstand the harsh chemical and temperature environment of wave soldering.

With a minimum of 100 VPM dielectric, gloves are also used as Static Discharge Guards to protect live contacts from nearby diode discharge. Spring tension enables guards to cling to the boards thru many cycles.



## PCB STIFFENERS CARD GUIDES



Glass roving per MIL-60346B and epoxy resin 130°C per MIL-R-9300 Type 1 and UL 94V-1 are pultrusion molded to produce 1/4" square solid epoxy rods with 150,000 PSI flex strength. Solid rods are bonded to boards, slotted for edge mounting, drilled for riveting, or fitted with #4-40 threaded inserts.

Glass epoxy PCB stiffeners are lighter than aluminum, with high dielectric strength they eliminate electrical shorting, and prevent warping during wave soldering. Pairs of slotted rods are bonded on opposite side walls of a glass epoxy housing to serve as card guides.

Rods for .062" thick boards are slotted .070" +.010" - .000" wide x .125" ± .010" deep, then cut to your specified length.

Sizes available are 1/8" x 1/4", 1/4" x 1/4", 1/4" x 5/16".

Design Data pamphlet and Mandrel List of open stock tools available on request.

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Use (201) Area Code until 6/1/97

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