

## Manual Type Fine Line Thick Film Conductors Trial Kit

**ASP-Trial-MN50**

*Trial Kit*

**Price \$1990.00**

Shipping & Handling are included

**Unit : 1 Set**

### Capable to generate 50 micron traces without screen-printer

The Advanced Screen Printing (ASP) Process developed by DKN Research enables you to generate silver lines finer than 50 microns (2 mils) on flexible substrates. Expertise in screen- printing is not a pre-requisite; a brief knowledge with circuit manufacturing will suffice.

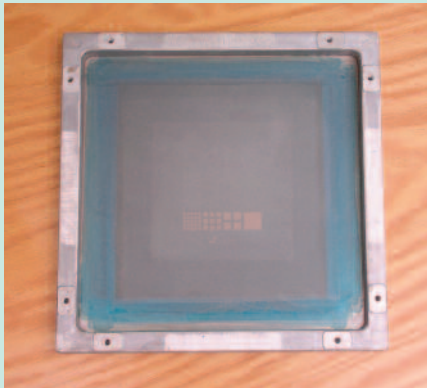
Optimized conditions can generate fine lines below 50 microns (2 mils). The resolution is almost equivalent to copper foil circuits produced by a photolithography and etching process. The trial process is very simple and easy; a screen-printing facility and some experience with this type of printing is all that is needed. It's time to take the first step and evolve to a new advanced screen-printing process for thick film circuits.

The trial kit includes a bottle of silver paste (50grams) and a set of plastic film with a special surface treatment that will serve as flexible substrates. All necessary tools for the manual screen-printing such as screen mask and squeegee are included in the kit. When customers want to go the next step, DKN Research will supply specific materials by customers' requests. Thick film circuit technologies can be upgraded to include multi-layer, printable components and more. If your first trial is successful, DKN Research is available to support your future challenges and endeavors such as multilayer constructions with micro via holes, embedded components, printable light sources, printable flexible displays, printable solar cells and more.



## TRIAL KIT COMPONENTS

- \* Process manual
- \* MSDS of the materials
- \* Screen mask with standard fine patterns down to 50 micron line and space, 315 mm square
- \* Printing glass table, 365 mm square
- \* Squeegee, 150 mm wide supported a handle
- \* Spatula
- \* Plastic gloves
- \* Plastic film substrates (3 types), 120 mm square
- \* Tray, 235 mm x 350 mm
- \* Spray bottle for cleaning
- \* Magnifying glass (10X)
- \* Conductive silver ink for fine lines, 50 grams,
- \* Cleaning solvent for screen mask
- \* Canned cleaning solvent (500 ml)



### Items to prepare before the trial

- \* Working table
- \* Thermal oven (up to 200 degree C or 400 degree F)

### Technical data of the trial kit

- \* Conductor: Silver powder
- \* Fine line capability: Down to 50 microns line/space
- \* Nominal thickness: 8 ~ 15 microns
- \* Volume resistivity: 106 ohm\*cm
- \* Bond strength: 100/100 (Cross hatch test)
- \* Printable area: 120 mm square
- \* Pot life: 3 months at <10 degree C (50 degree F)

***Please contact  
for detailed  
information***

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