

FormTM

alpha[®]

Long life stencil technology with enhanced fine pitch capabilities

ALPHA[®] FORMTM Electroformed Nickel Stencils

State-of-the-art ALPHA[®] FORMTM electro-formed stencils are designed for electronics assemblers requiring superior printing performance down to microelectronic levels – even below 16 thou (0.4 mm) pitch. They provide high accuracy, durability, and long life for high volume printing applications.

- High accuracy and repeatability
- Enhanced ultra fine pitch capability
- Minimized under stencil cleaning requirements thanks to positive underside gasketing
- Framed or frameless foils to suit all printers and formats
- Patented material formula for optimum hardness... less stress
- Custom thickness capability to optimize transfer efficiency
- Stepped area(s) for optimized paste volume deposition
- Long stencil life, up to twice that of stainless steel stencils

ALPHA[®] FORMTM Electroformed Nickel Stencils
Meeting your needs through
Knowledge, Experience and Service



Cookson Electronics

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alpha[®] Form[™]

ALPHA[®] FORM[™] Electroformed Nickel Stencils are "grown" in an electro-deposition process, plated directly onto a conductive mandrel using a bespoke, patented, hard nickel formula. Stencils manufactured in this way are very accurate and typically last twice as long as similar stencils made from stainless steel.

Optimizing Paste Transfer Efficiency

We analyze the data you provide and automatically evaluate the likely paste transfer efficiency, for every aperture in your stencil.

We combine Alpha[®] design and modification rules, honed by customer feedback and experimental development, with your own specific design requirements and preferences, to produce stencils with outstanding print capabilities...

We optimize the printability characteristics of your stencil design at "data stage" before any manufacturing is undertaken.

Custom Thickness Capability

In critical apertures, stencil thickness is the most important variable impacting paste transfer efficiency. With ALPHA[®] FORM[™] stencils, we have the ability to tailor stencil thickness infinitely from 0.6 mil to 8 mil (15 to 200 μm) in order to optimize fine feature print performance.



For the most challenging print applications with the finest apertures you can depend on ALPHA[®] FORM[™]...

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Low Stress

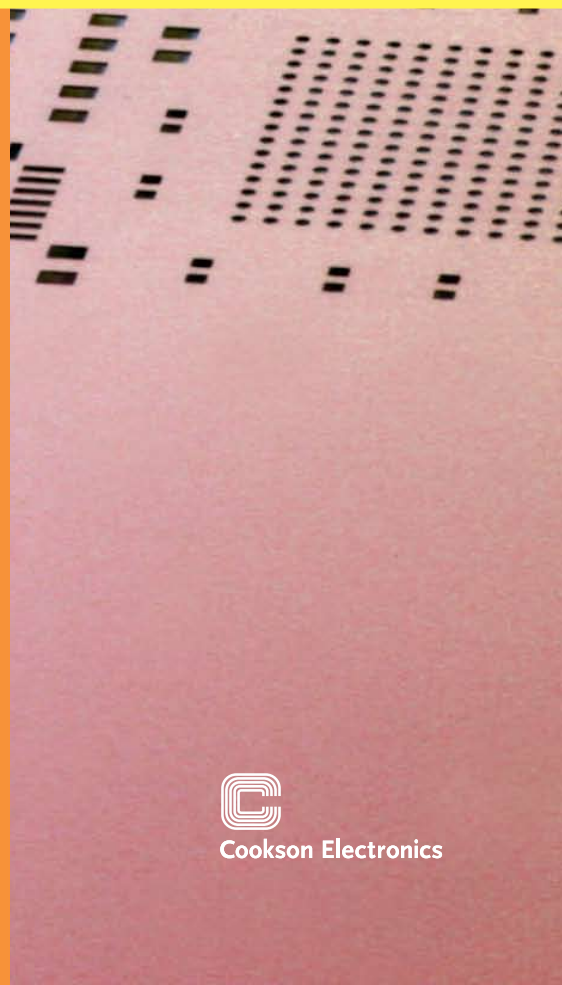
The electroplating technique eliminates the internal material stresses common to rolled stainless steel, meaning dense images or very thin stencils do not suffer from material rippling or deformation.

Stepped Options

ALPHA[®] FORM[™] Stencils can incorporate stepped areas... different thicknesses in a single stencil... to further enhance transfer efficiency but the custom thickness capability could obviate the need for steps and satisfy the requirement more economically.

Fast Response

We do everything possible to meet your most stringent delivery requirements but the electroforming process is a slow one and a stencil takes several hours to form. Those requiring long life nickel stencils in a hurry should consider ALPHA[®] NICKEL CUT[™]... laser cut nickel stencils. These are produced from nickel blanks in our strategically located manufacturing facilities.



**For more information visit:
www.alpha.cooksonelectronics.com**



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