



Dear Valued Customer,

The current mechanical specifications for the package can be found at the www.national.com web site or by clicking the following link:

<http://www.national.com/packaging/folders/lqa56a.html>

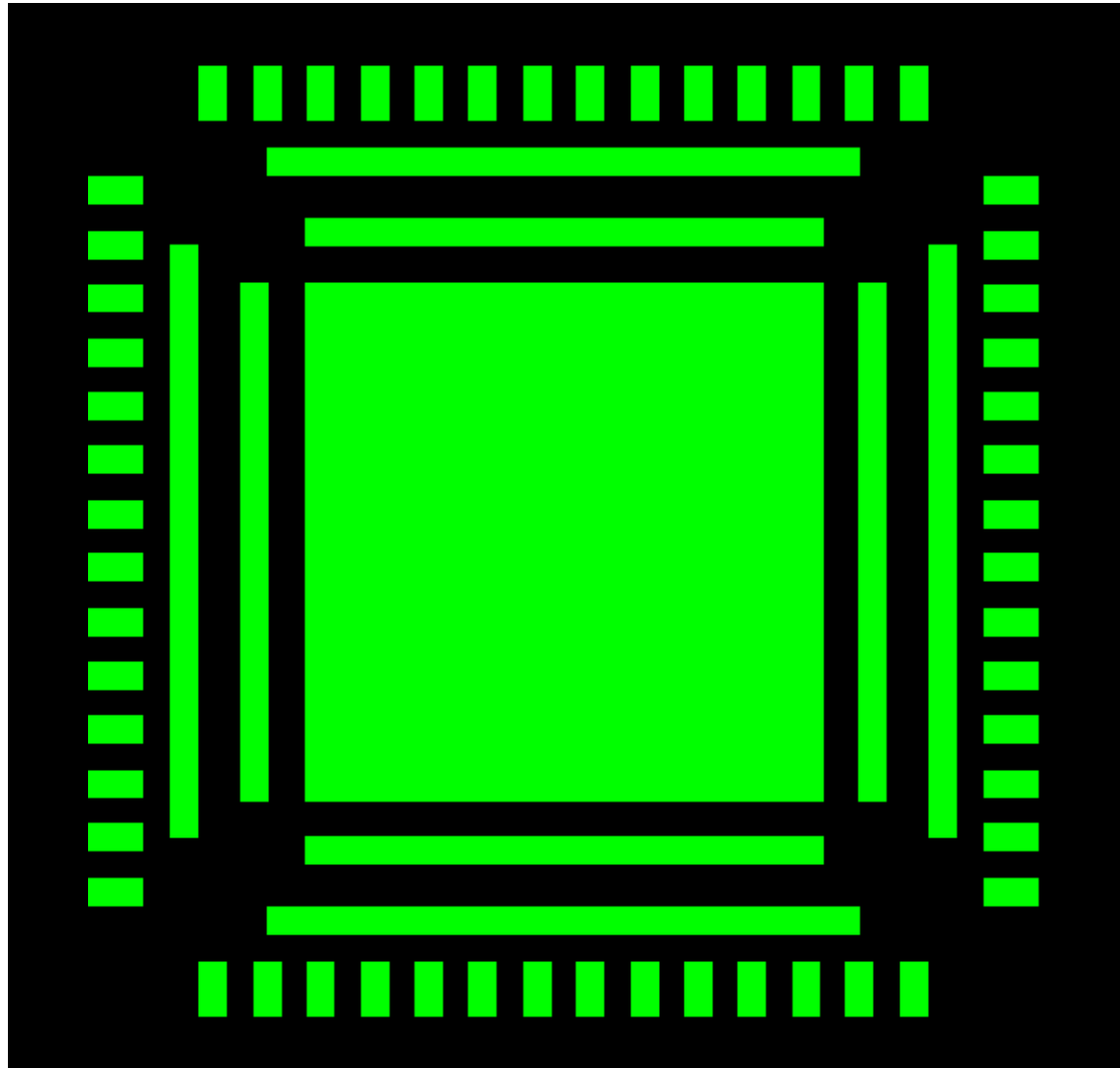
The following pages illustrate the recommended package footprints that apply to this package configuration. They are included in GERBER format for easy incorporation into most PCB layout packages.

For technical support, contact:


<http://www.national.com/support/>

Sincerely yours,

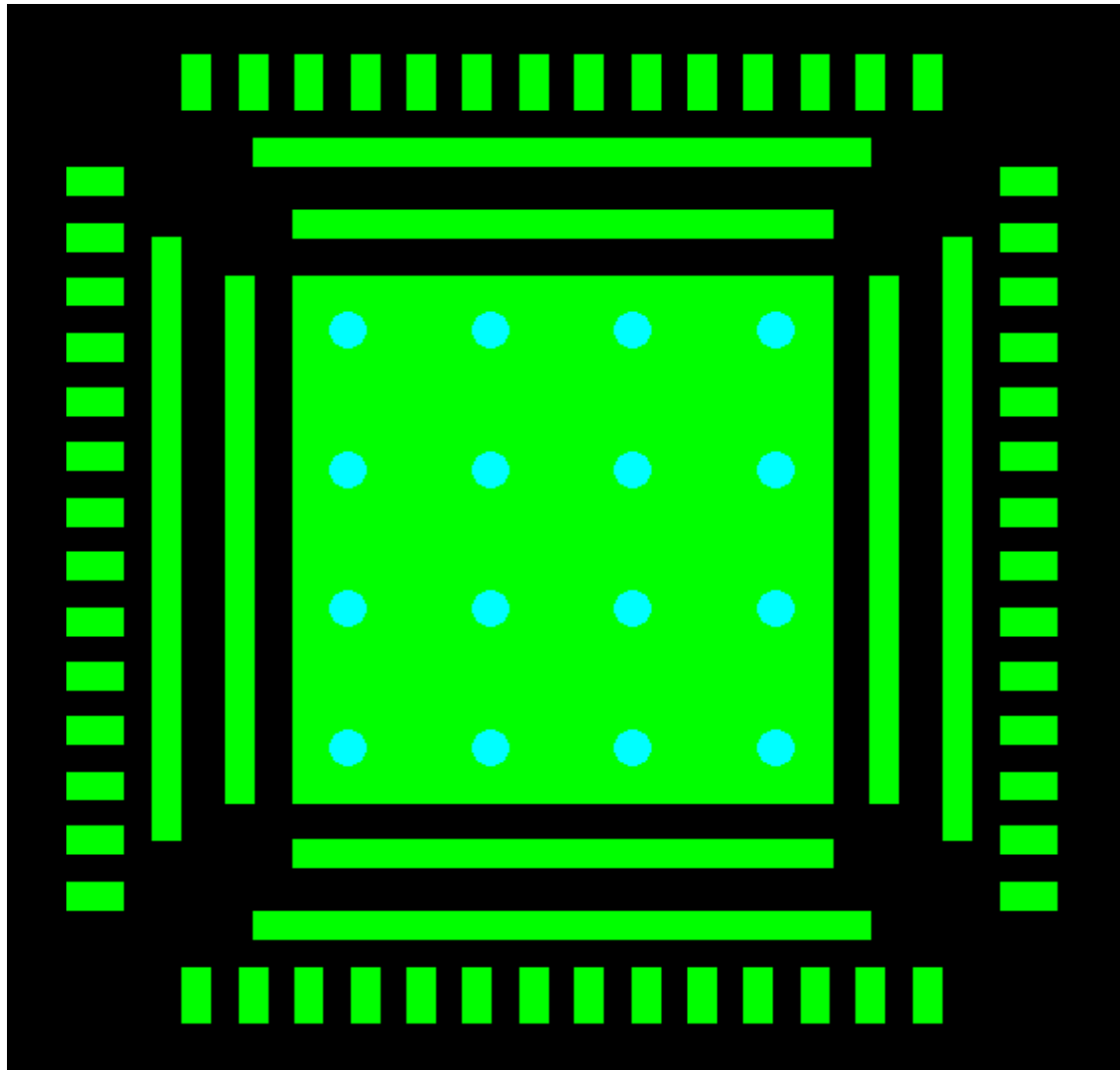
National Semiconductor




TOP ETCH

 = Exposed FR4


 = Exposed metal

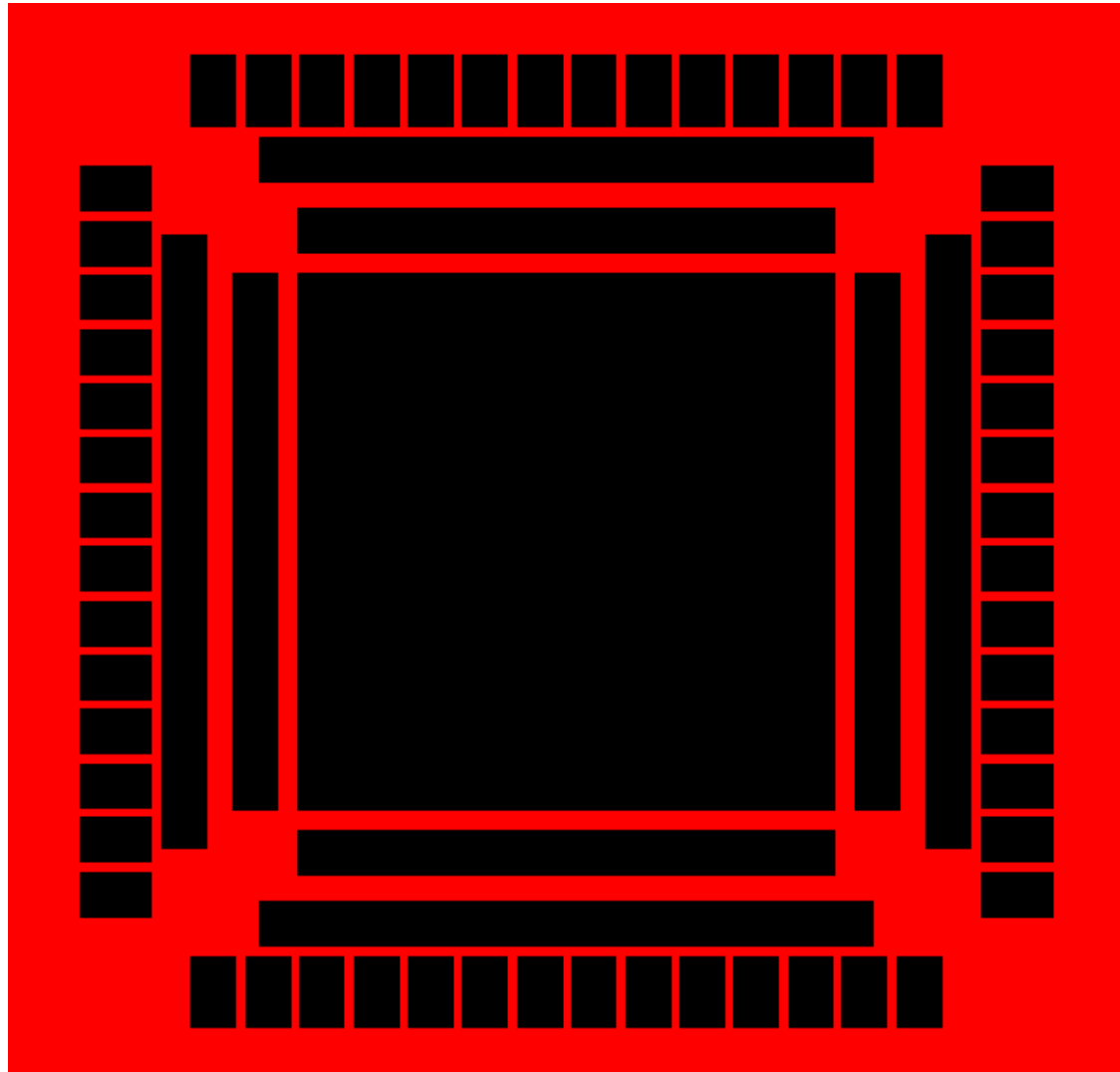


TOP ETCH with THERMAL VIAS


 = Exposed FR4

 = Exposed metal

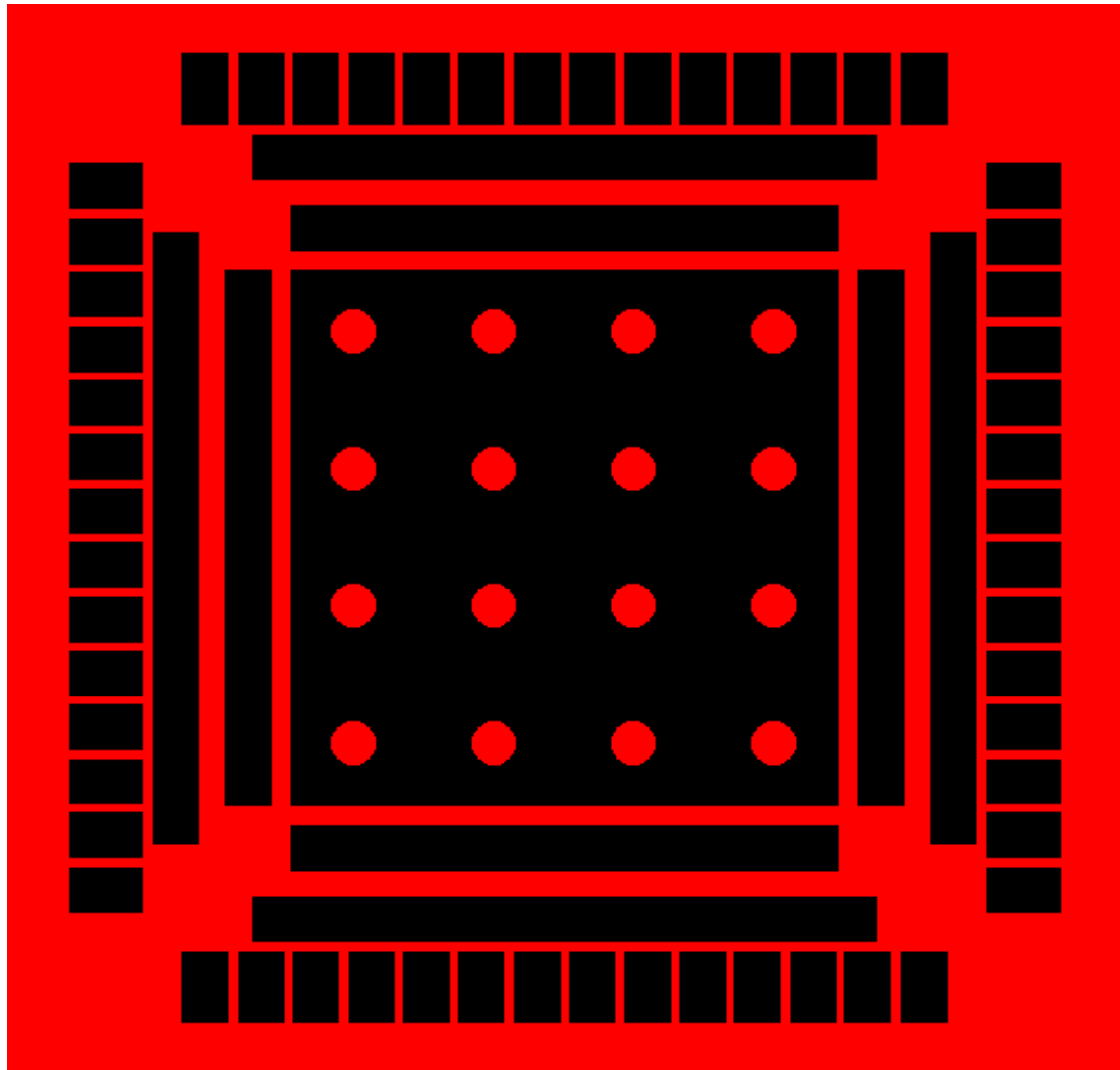
 = Thermal Vias




TOP SOLDERMASK

 = Exposed FR4

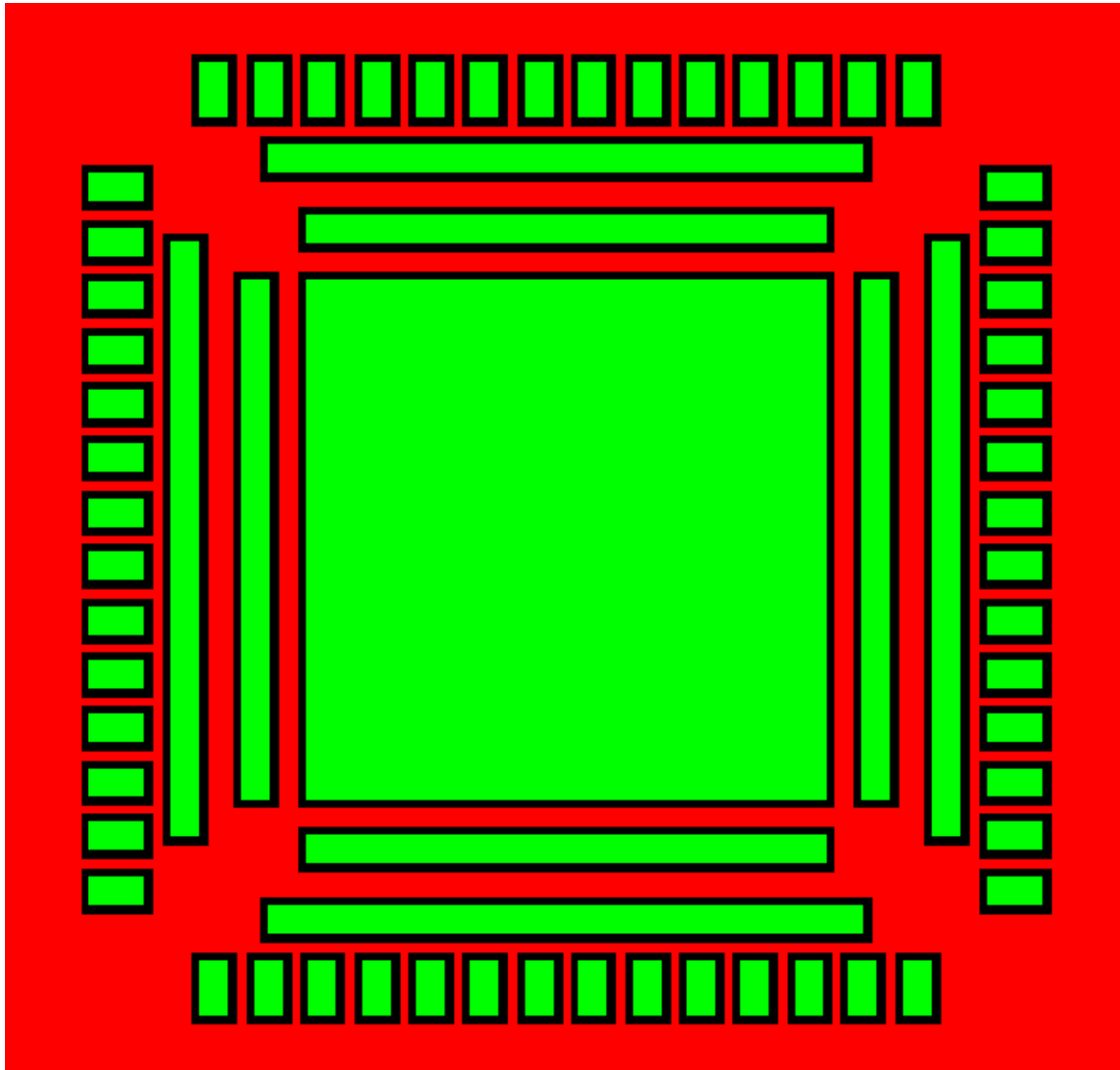
 = Mask over FR4



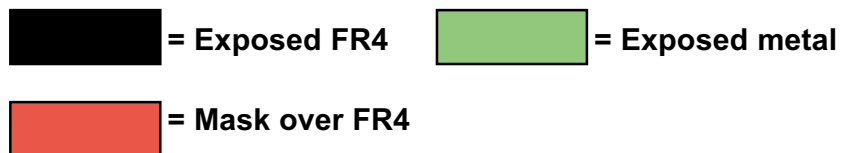
TOP SOLDERMASK for THERMAL VIAS

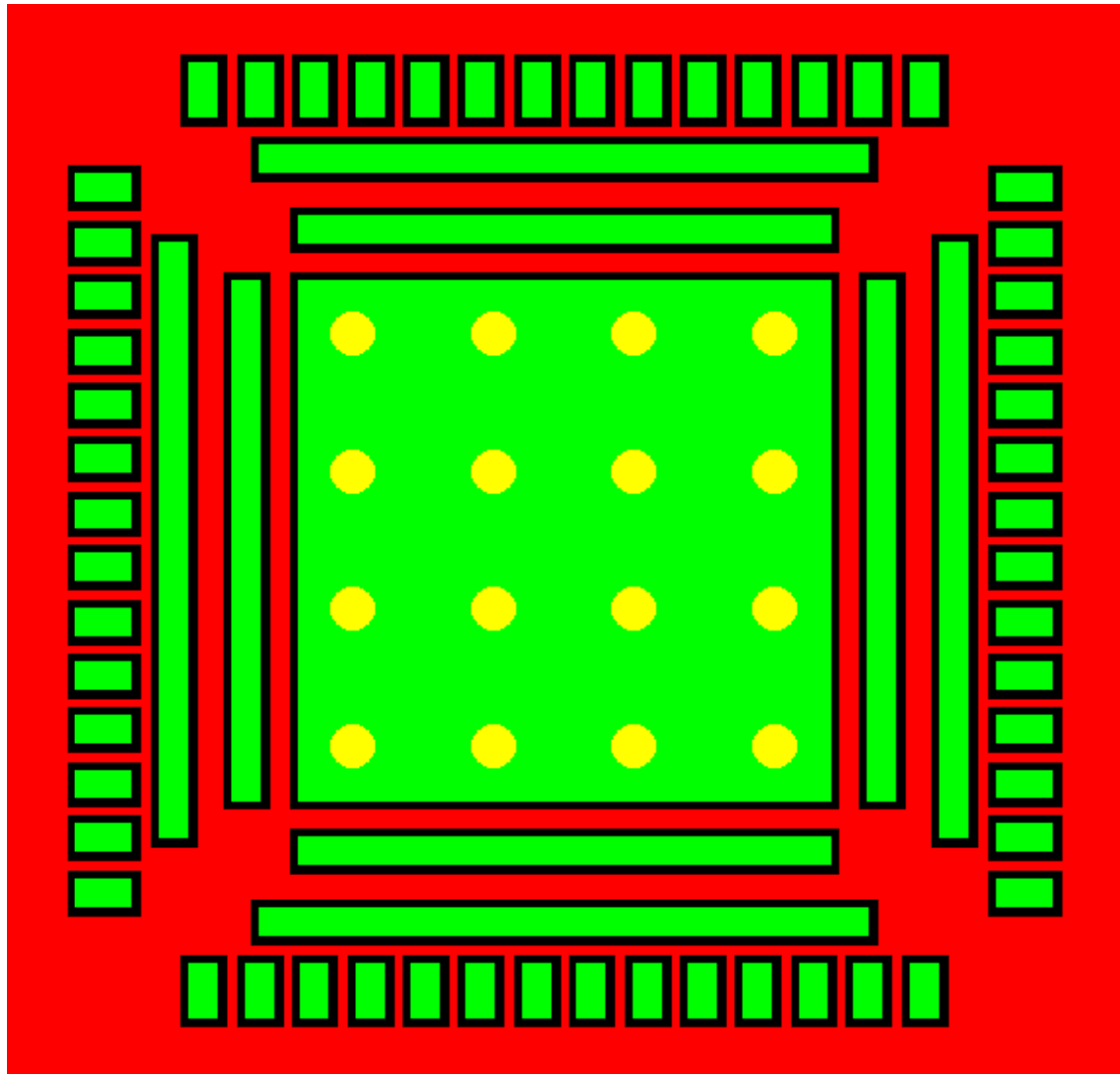
 = Exposed FR4

 = Mask over FR4

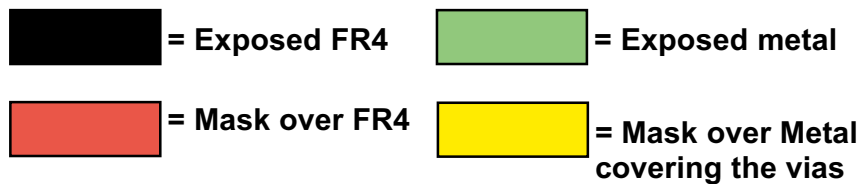


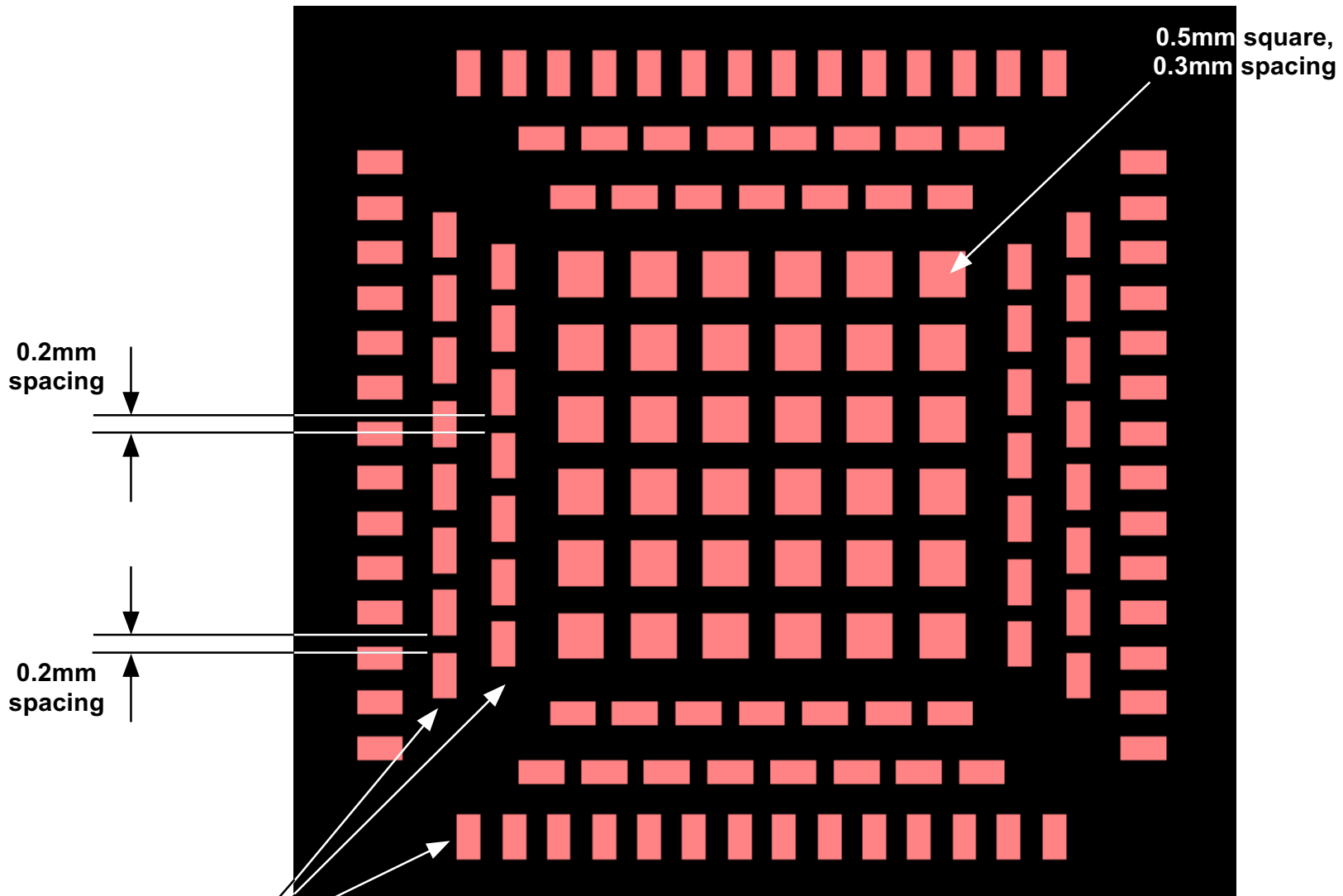
TOP ETCH + SOLDERMASK





TOP ETCH + SOLDERMASK for THERMAL VIAS






0.5mm square,
0.3mm spacing

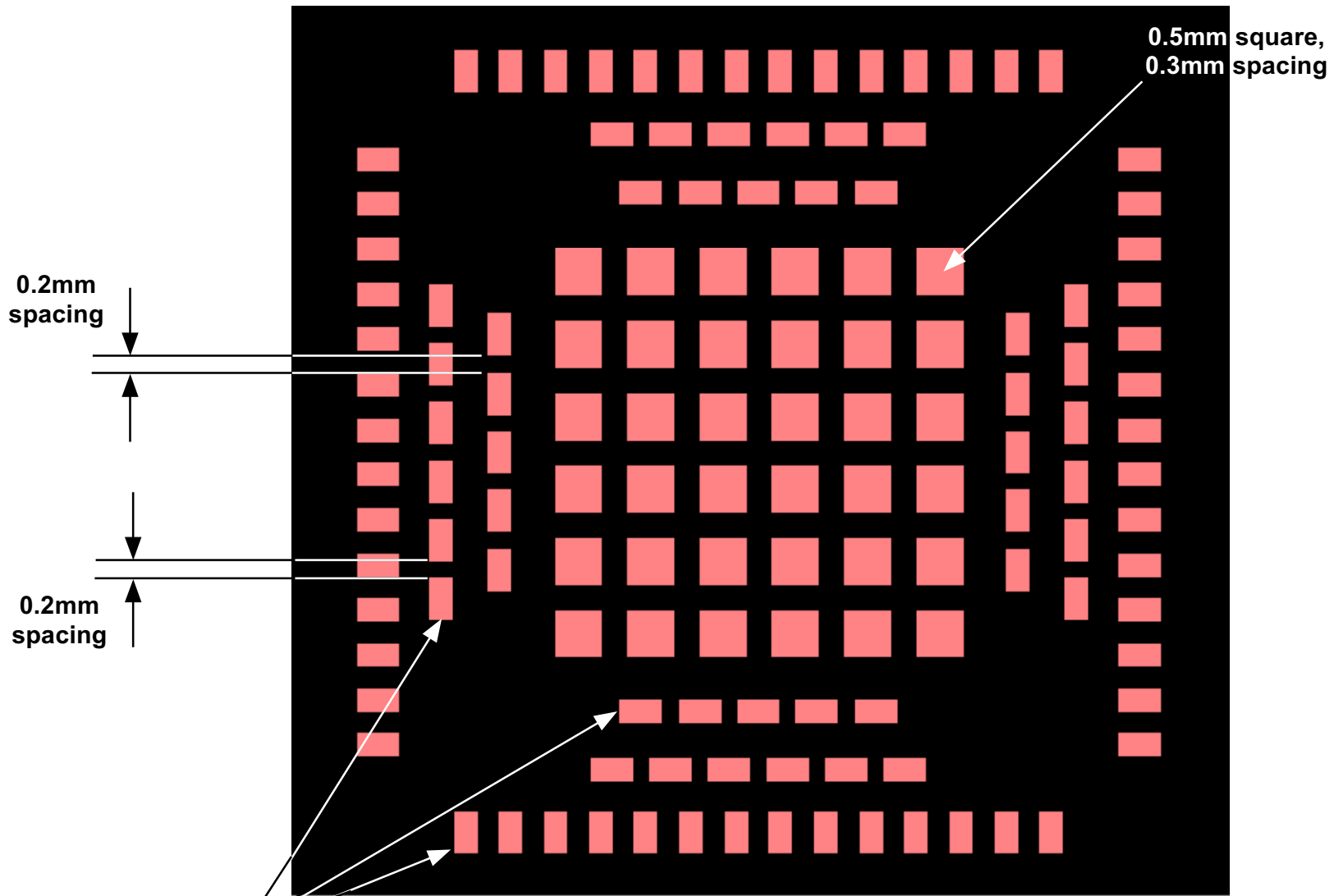
0.2mm
spacing

0.2mm
spacing

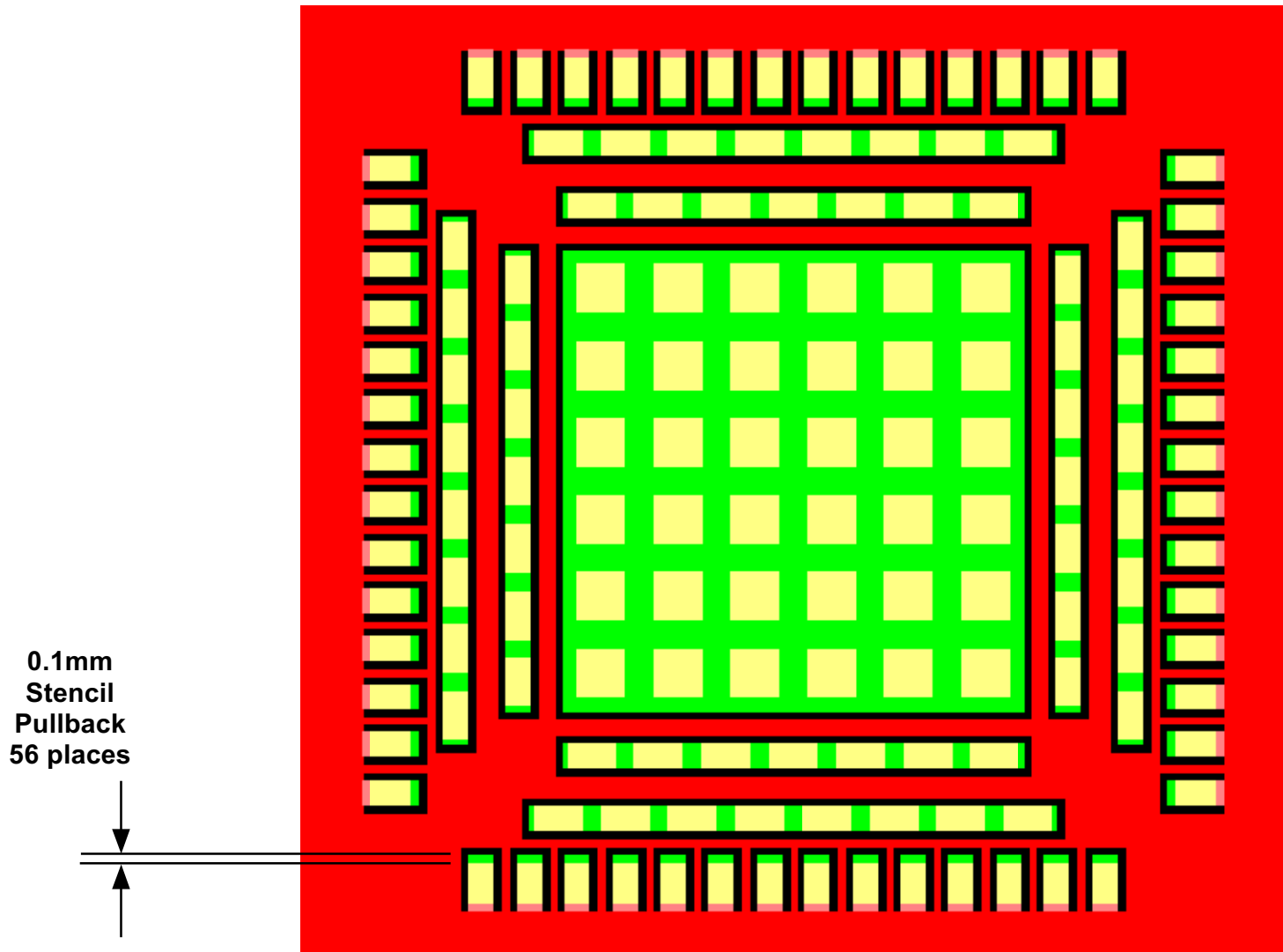
0.25
x
0.50mm

TOP SOLDERPASTE

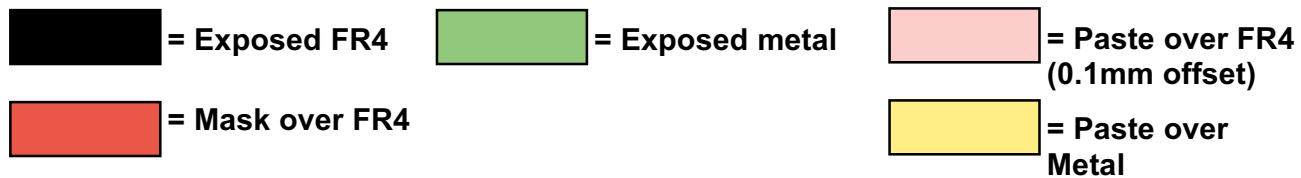
 = Paste

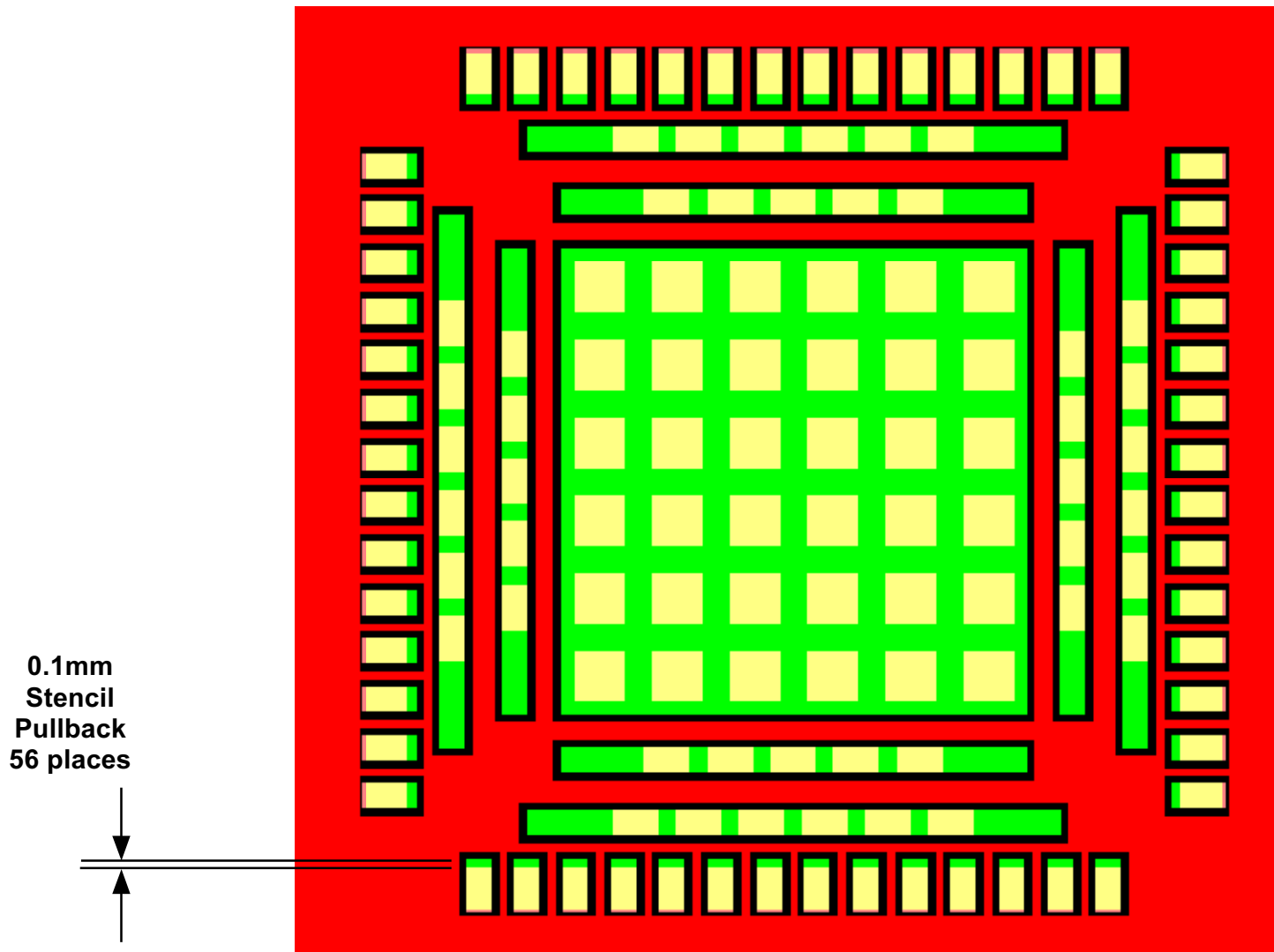


Top Solderpaste for HASL Board

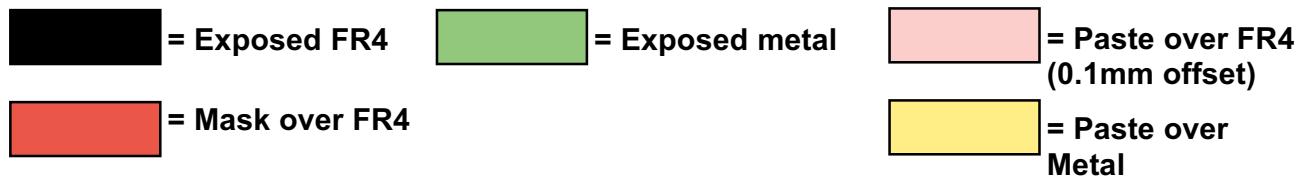


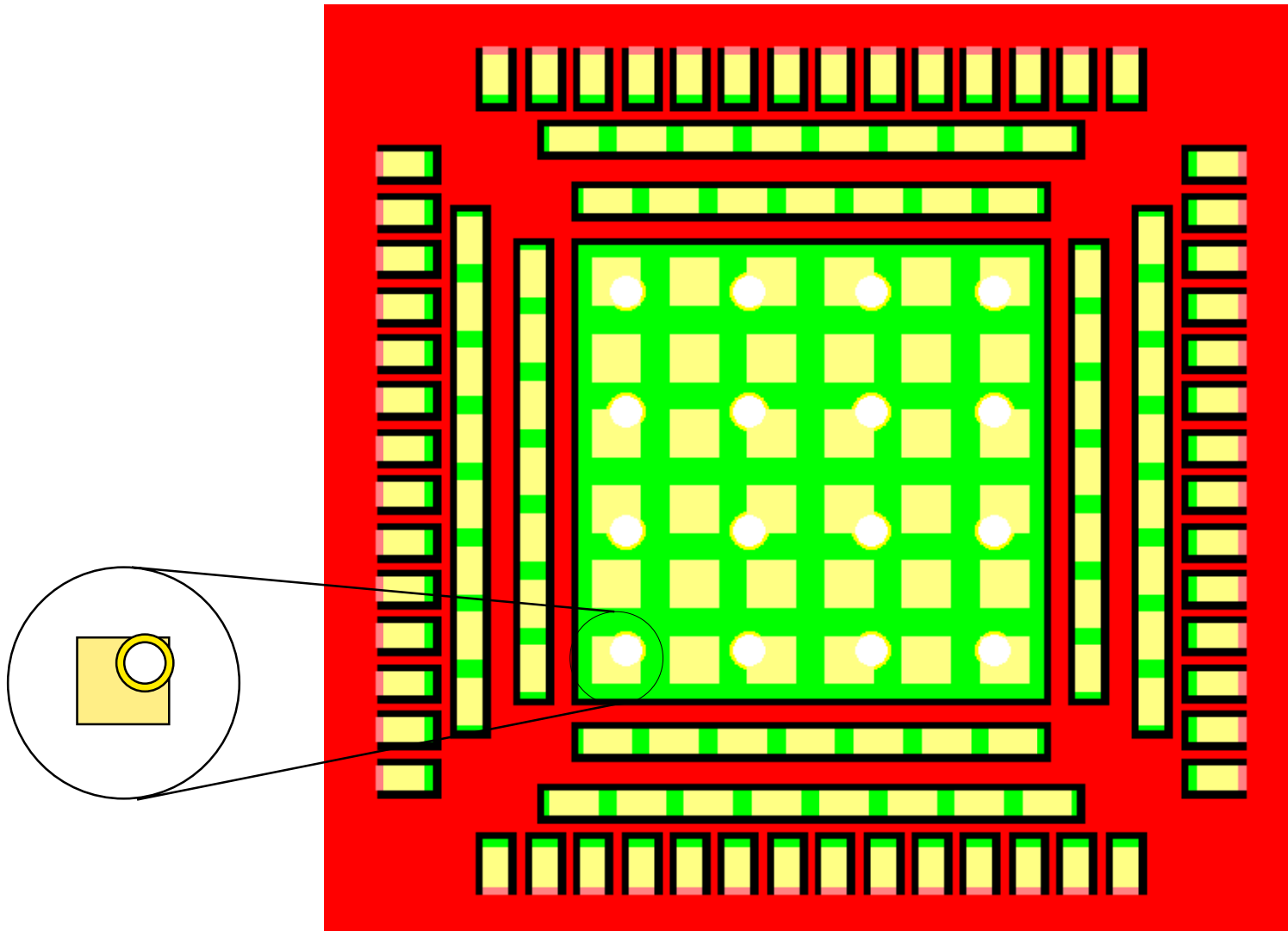
TOP ETCH + SOLDERMASK + SOLDERPASTE





Top Etch + Soldermask + Solderpaste for HASL Boards





TOP ETCH + SOLDERMASK + SOLDERPASTE with VIAS

