

PCB parameters for Surface Mount production :

In order to produce your PCB on our machines, some technical parameters are necessary :

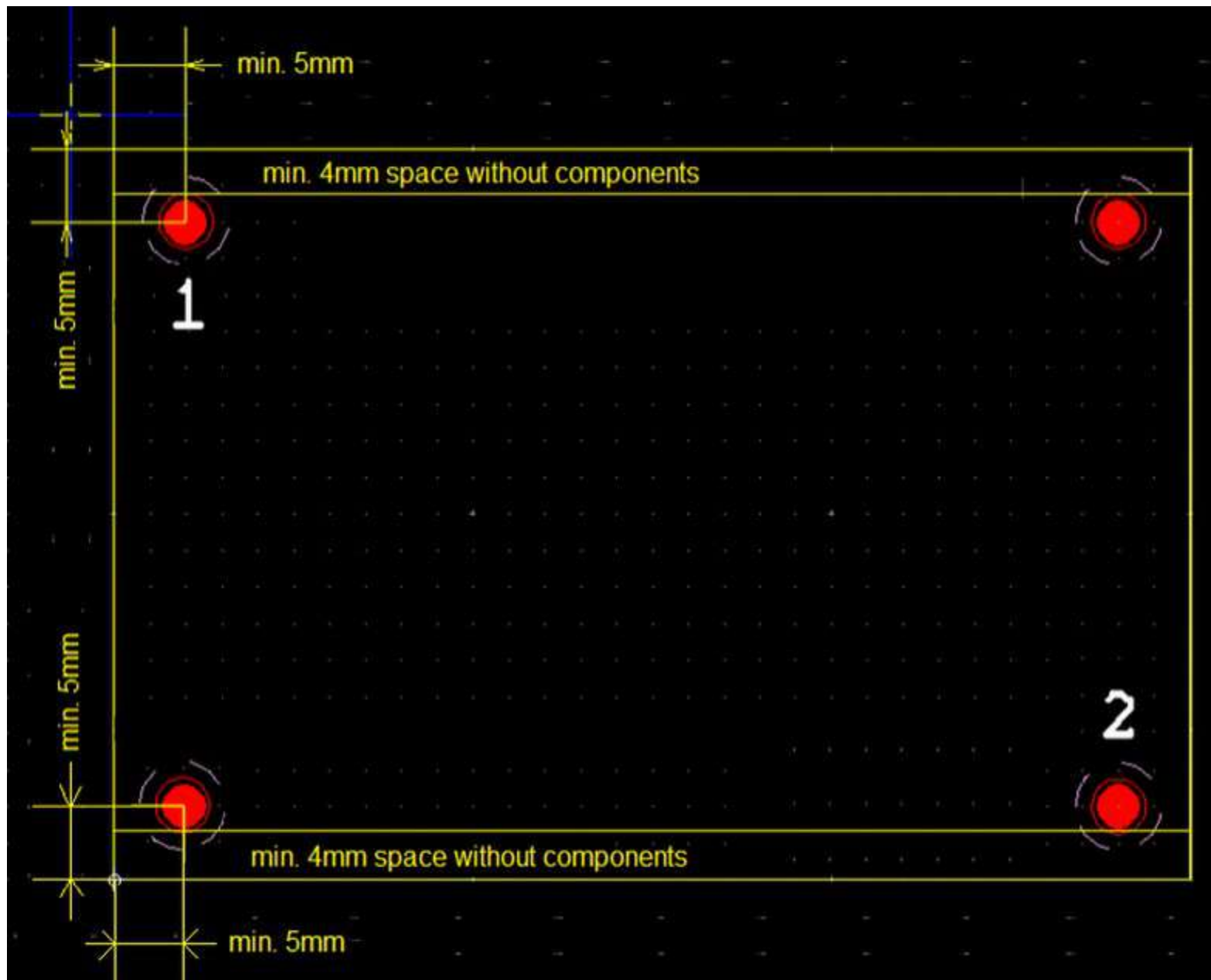
- minimum and maximum overall PCB dimensions : X= 80mm to 600mm, Y= 55mm to 250mm, Thickness 0,8mm to 2mm
- 2 diagonally positioned fiducials for aligning the PCB in the machines
- technical edges or space without components to clamp the PCB in the machines

When the PCB has no technical edges, the fiducials need to be designed inside the PCB.

In general fiducial diameter is 1,25mm. The fiducial should be included in the pastemask layer for stencil printing alignment.

PCB without technical edges :

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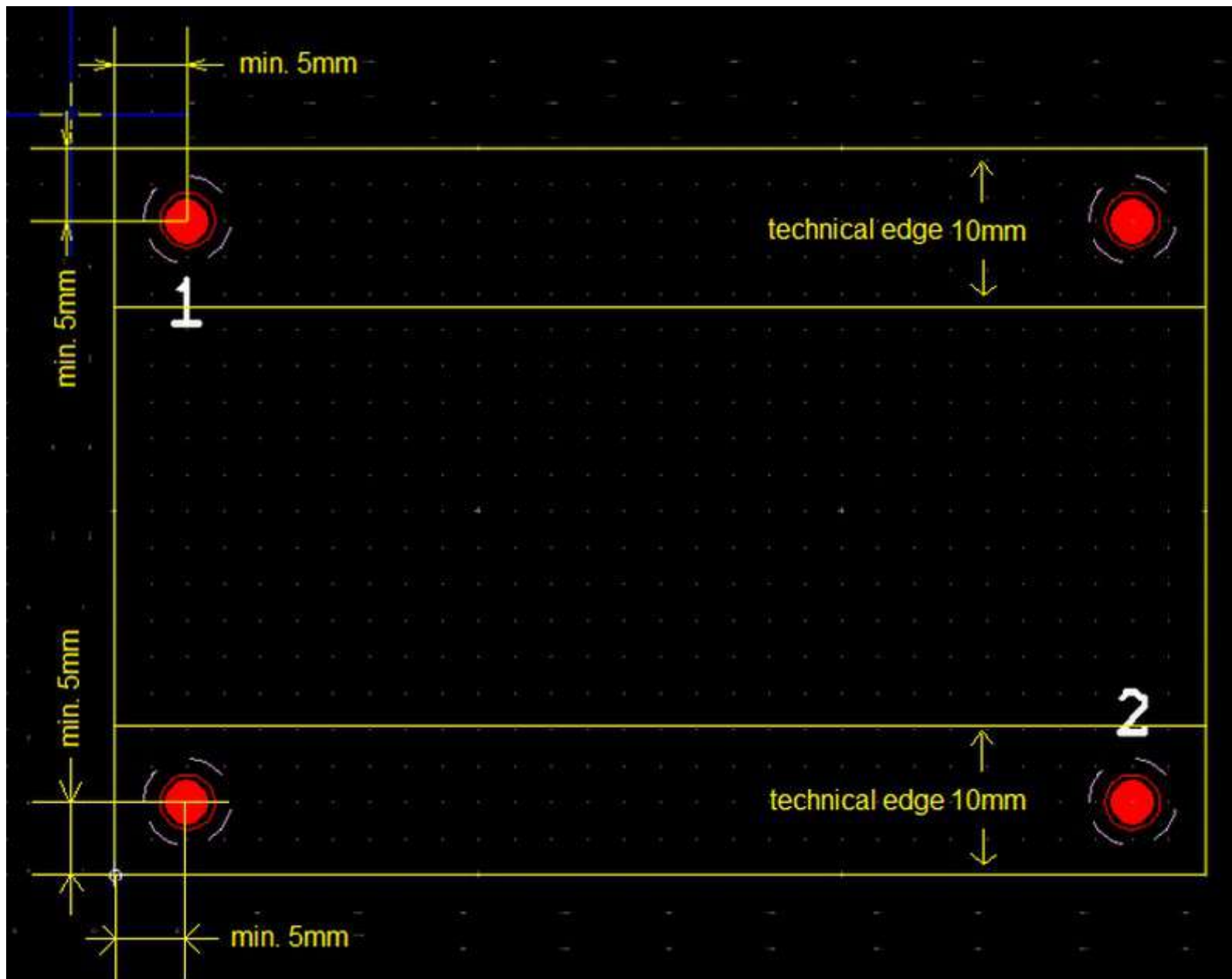


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When the PCB has technical edges we can work with the fiducials on the technical edges.

Most times PCB suppliers add fiducials on the technical edges and then it is not necessary to design them inside the PCB for prototyping (serial production should always be done with fiducials designed in the PCB).

In this case the technical edges should be at least 10mm large.



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Component conditioning for Surface Mount production :

In order to mount your components with our automatic pick&place machine, they need to be conditioned in adapted feeding supports.

For most components we plan in some spare parts (depending on component size between 4, and 10 for small components).
For expensive components we can work without spare parts (with additional handling fee).

Most small quantity suppliers offer re-reel services (under min. order quantity conditions or reeling fees).
Our machine can work with re-reeling such as done by Farnell, Mouser, Digikey.

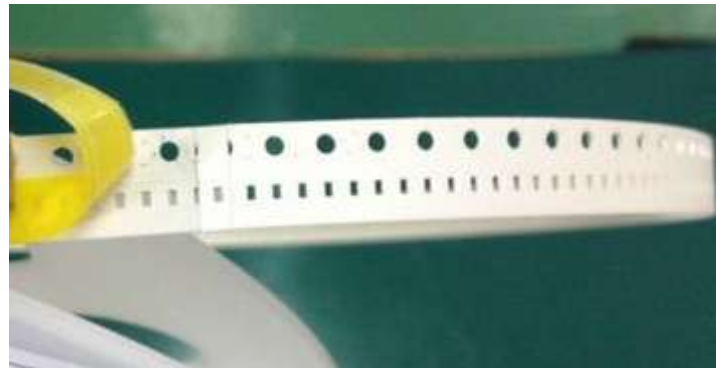
When re-reeling by the component supplier is not possible, we can also work with cut-tapes and do the reeling (with additional reeling fee).

Other feeding supports are possible for our machine :

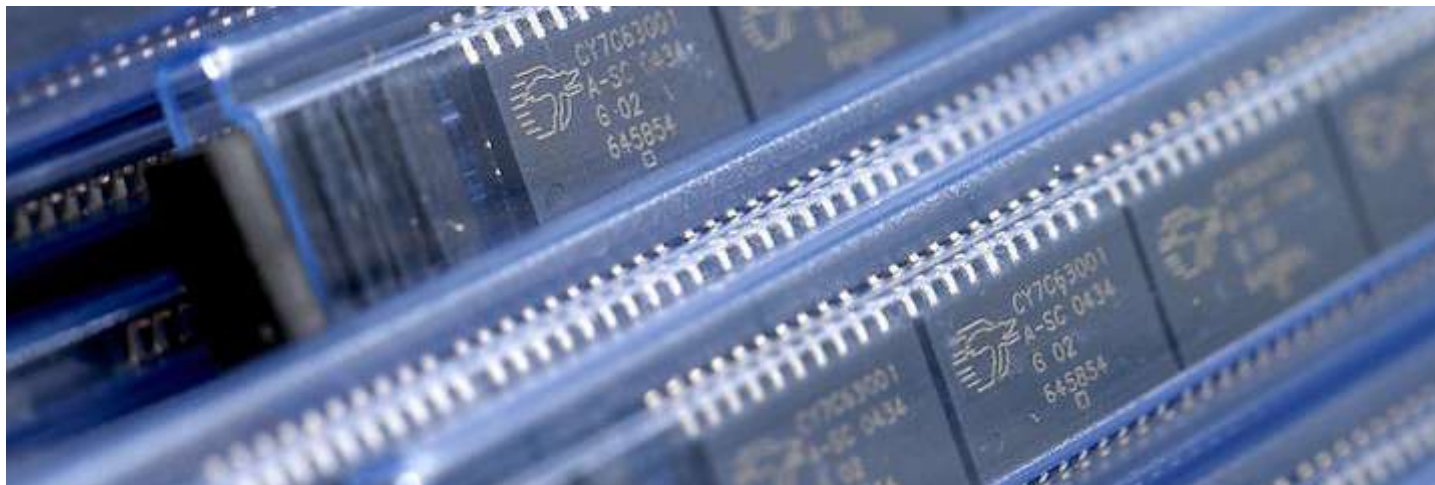
- components in sticks / tubes
- components in trays

Bulk packaging is not recommended because sensitive components might be damaged.
If we receive components in bulk packaging, we need to check that no component is damaged and place them into adapted feeding supports (additional fee and quality risk).

Cut-tape re-reeled :

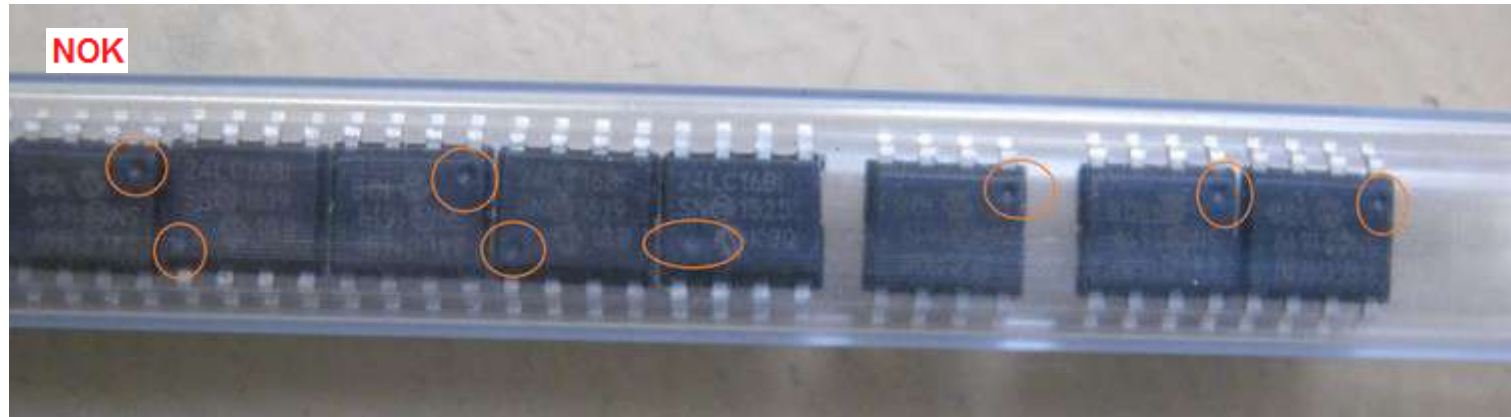


Components in sticks / tubes :



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Please observe that component orientation inside the stick should be equal for every component.



Components in trays :



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Please observe that component orientation inside the tray should be equal for all components. Cut-off corner for first pin direction should be observed.

