

Axiom Electronics PCBA Design for Manufacturability Guidelines

Section: 10.1	Revision: A	Revision Date: 2/15/13
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DFM Subject: PCB, Size and Thickness (Maximum and Minimum)
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DFM Requirement:

- PCB size and thickness shall not exceed the values listed in Table 10.1 below.
- The X dimension is parallel to the direction of conveyor travel.
- The Y dimension is perpendicular to the direction of conveyor travel.
- Contact Manufacturing Engineering if there is a PCB design that exceeds these values.

Primary unit of measure is metric (mm), followed by imperial (inches).

DFM Impact:

PCB designs that are within the values listed in Table 10.1 can be assembled using existing equipment. PCB designs that exceed the values listed in Table 10.1 cannot be built using existing equipment. It may be necessary to purchase new equipment.

Table 10.1 – PCB Size and Thickness / Equipment

Size or Thickness	Placement (Advantis)	Placement (Fuzion)	Reflow Soldering	Selective Soldering
X Dimension, Maximum	584.2mm (23.0")	508.0mm (20.0")	584.2mm (23.0")	609.6mm (24.0")
X Dimension, Minimum	101.6mm (4.0")	101.6mm (4.0")	101.6mm (4.0")	101.6mm (4.0")
Y Dimension, Maximum	508.0mm (20.0")	508.0mm (20.0")	457.2mm (18.0")	609.6mm (24.0")
Y Dimension, Minimum	101.6mm (4.0")	101.6mm (4.0")	101.6mm (4.0")	101.6mm (4.0")
Thickness, Maximum	6.35mm (0.250")	6.35mm (0.250")	6.35mm (0.250")	6.35mm (0.250")
Thickness, Minimum	1.0mm (0.040")	1.0mm (0.040")	1.0mm (0.040")	1.0mm (0.040")