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How To Panelize Your PCBs

To qualify for our Short-Run Production assembly service, Screaming Circuits requires any PCB smaller than 16sqin. or a non-standard shape (any shape other than square or rectangle) be panelized. This document is meant to help you communicate these needs to your PCB fabricator. Our panelization guidelines are as follows:

- + Panels should be roughly 9in. X 11in.
- + Fiducial markers must be placed on all Panels and PCBs
- + PCBs must have a minimum “keepout” area of .2in from the edge of the PCB to the edge of components (If this is not possible, a panel frame must be added)
- + Individual PCB’s should be spaced within a panel so that overhanging components do not overlap adjacent PCB’s
- + Each panel and PCB must have at least 3 fiducial markers
- + Each fiducial marker should be at least .025in. away from any soldermask or traces
- + Fiducial markers comprised of round unmasked etched pads 1mm / .040in. in diameter are preferred

NOTE: Panelized PCBs are not required for our standard Prototype assembly service.