

PCB Design Rules

1 & 2 layer Process	1 oz / 35um	2 oz / 70um	3 oz / 105um
Minimum trace width	7 mils	8 mils	12 mils
Minimum clearance	7 mils	8 mils	12 mils
Minimum via/hole size (specified)	12 mils	12 mils	12 mils
Minimum pad for plated hole/vias	26 mil	30 mils	34 mils
Minimum plated slot	32 mil	30 mils	28 mils
Minimum Soldermask Clearance	4 mil	4 mil	4 mil
Minimum Silkscreen Clearance	4 mil	4 mil	4 mil
Minimum Silkscreen line width	6 mils	6 mils	6 mils
Minimum board copper/edge margin	10 mils	10 mils	10 mils

Policy on hole size / slots / cutouts

- Specified hole size will be the final hole size (+/- 1 mil)
- Specified slot size will be the final slot (+/- 1 mil)
- 60 mil routing tool would be used for internal cutouts.

Available Drill & Router bit diameter

- 12 mils to 149 mils - 1 mil increment
- 150 mils to 250 mils - 4 mil increment
- Holes larger than 250 mils will be routed.
- Smallest router diameter - 31 mils

Available Material

- 0.031" FR4
- 0.062" FR4
- 0.094" FR4
- 0.125" FR4

FR4 Specification -

Significant part of our PCB production uses Kingboard's FR-4. Please download this [PDF Datasheet](#) for material properties details.