

# Capabilities

## CAPABILITIES AND PREFERENCES

<u>Specification</u>	<u>Preferred</u>		<u>Minimum</u>	
	mm.	Inches	mm.	Inches
Track width & gap	0.2	0.008	0.15	0.006
Minimum land around hole	0.2	0.008	0.15	0.006
Annular ring clearance	0.3	0.012	0.2	0.008
Minimum hole diameter	0.4	0.016	0.2*	0.008*
Minimum clearance on solder resist			0.08	0.003
Minimum line width on legend	0.15	0.006	0.0125	0.005

(\* Hole diameter after plating)

Corner markers on external copper layer. Inside edge designates board profile or line around centre designates board profile.

0.2    0.008

ADDITIONAL USEFUL INFORMATION: Text file showing which file refs. Relate to which layer.

Format for Gerber and drill file.

<u>Board Dimensions</u>	<u>mm.</u>	<u>Inches</u>
Maximum Multi-layer	406 x 305	16 x 12
Maximum PTH, Conventional	560 x 305	22 x 12
<u>Panel Dimensions</u>	<u>mm.</u>	<u>Inches</u>
Maximum PTH, Conventional	610 x 355	24 x 14
Minimum PTH, Conventional	150 x 150	6 x 6
Maximum Multi-layer	457 x 355	18 x 14
Minimum Multi-layer	355 x 305	14 x 12
<u>Machine cutting tolerance</u>	<u>mm.</u>	<u>Inches</u>
NC Routing	+/- 0.1	+/- 0.004

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<u>Notation Component idents</u>	<u>mm.</u>	<u>Inches</u>
(Legends available in White, Yellow, Black & Blue)		
Alignment positional tolerance	+/- 0.2	+/- 0.008
Minimum letter width on photoplot		
In copper	0.2	0.008
Screen printed	0.015	0.006
<u>Hole diameters tolerance range</u>	<u>mm.</u>	<u>Inches</u>
<b>Drilled only:</b>		
Up to 1mm (0.039in)	+/- 0.025	+/- 0.001
1mm to 2mm (0.039in/0.078in)	+/- 0.038	+/- 0.0015
Above 2mm (0.078in)	+/- 0.050	+/- 0.002
<b>Plated holes:</b>		
Up to 1mm (0.039in)	+/- 0.050	+/- 0.002
1mm to 2mm (0.039in/0.078in)	+/- 0.076	+/- 0.003
Above 2mm (0.078in)	+/- 0.087	+/- 0.0035
<u>Drilled hole position tolerance</u>	<u>mm.</u>	<u>Inches</u>
Hole positions located from film	0.076	0.003
<u>Registration tolerance (pad / hole ratio)</u>	<u>mm.</u>	<u>Inches</u>
Drill positional tolerance	+/- 0.076	+/- 0.003
Pad positional tolerance (photo)	+/- 0.025	+/- 0.001
Photo location tolerance	+/- 0.076	+/- 0.003
Etch factor	0.0013	0.0005
Minimum annular ring requirement	0.076	0.003
TOTAL MANUFACTURE TOLERANCE	0.254	0.0105

(This does not take into account mis-registration within artworks)