

FINELINE

DELIVERING GLOBAL
PCB SOLUTIONS

Our capabilities



Feature	Standard	Advanced	R&D
Layers count	16	40	60
Minimum board thickness (with solder mask)	0.6mm	0.40mm	0.20mm
Maximum board thickness	4mm	6mm	10mm
Minimum board size	50mm x 50mm	30mm x 30mm	5mm x 5mm
Maximum board size	600mm x 570mm	960mm 600mm	1250mm x 570mm
Minimum line/space innerlayer (depend on copper weight)	3mil/3mil	2.5mil/2.5mil	2mill/2mil
Minimum line/space outerlayer (depend on copper weight)	4mil/4mil	3mil/3mil	2mil/2mil
Surface finish types	OSP, HASL, ENIG, Immersion Silver, Immersion Tin, Hard gold (Connector board)	Plus hard gold (Selective board) soft gold, ENEPIG	Plus ISIG,EPIG
Mechanical hole size (Finish hole size)	0,2 mm	0,15 mm	0,1 mm
Maximum aspect ratio PTH	10	16	20
Finished tolerance PTH	+/-0,075 mm	+/-0,05 mm	+/-0,025 mm
Finished tolerance NPTH	+/-0,05 mm	+/-0,025 mm	+/-0,015
Epoxy filled through holes (Y/N)	Yes	Yes	Yes
Capped via (Y/N)	Yes	Yes	Yes
Maximum copper weight outerlayer	3oz	12oz	>12oz
Maximum copper weight innerlayer	3oz	12oz	>12oz
Control depth drill (Y/N)	Yes	Yes	Yes
Tolerance depth drill	+/-0,1 mm	+/-0,075 mm	+/-0,05 mm
Backdrill diameter	0,50 mm	0,35 mm	0,25 mm
Min. depth of backdrill	0,25 mm	0,20 mm	0,15 mm
Drill depth tolerance	+/-0,15 mm	+/- 0,10 mm	<0,10 mm
HDI type 1+n+1	Yes	Yes	Yes
HDI type 2+n+2	Yes	Yes	Yes
HDI type 3+n+3	Yes	Yes	Yes
HDI type 4+n+4	NA	Yes	Yes
Any layer	No	Yes	Yes
Min. laser hole diameter	0.075	0.065	Only by request
Microvia Max.aspect ratio	1:1	1:1	1:1
Copper filled microvia	Yes	Yes	Yes
Resin filled microvia	Yes	Yes	Yes
Stacked & Staggered via.	Yes	Yes	Yes
Laser via land pad size	Via diameter+0.15 mm	Via diameter+0.125 mm	Via diameter+0.1 mm
Laser via capture pad size	Via diameter+0.25 mm	Via diameter+0.225 mm	Via diameter+0.2 mm
Rigid-flex boards (Y/N)	Yes	Yes	Yes
Min. width between rigid parts	5 mm	3mm	2mm
Min. Flex width	5mm	3mm	2mm
Flex boards (Y/N)	Yes	Yes	Yes
IMS boards	Yes	Yes	Yes
Embedded components (Y/N)	No	Yes	Yes
Soldermask via plugging IPC4761 type VI (Y/N)	Yes	Yes	Yes
Epoxy via plugging IPC4761 type VI(Y/N)	Yes	Yes	Yes
Epoxy via plugging IPC4761 type VI(Y/N)	Yes	Yes	Yes



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