

Process Capability			
Category	Topics	Standard	Advanced
Standard PCB	number of Layers	2L - 26L	26L - 68L
	overall board thickness	0.1 - 6mm	6mm - 9mm
	min Line width / spacing	3 / 3mil (75µm / 75µm)	2 / 2 mil (50µm / 50µm)
	max PCB size	800 x 620mm	800 x 620mm
	min drill hole size	0.20mm	0.15mm
	max copper thickness	6OZ (Inner) , 10OZ (Outer)	12OZ (Inner) , 14OZ (Outer)
	min solder mask dam	2mil (50µm)	2mil (50µm)
	aspect ratio	10:1	20:1
	impedance tolerance	±10%	±8%
HDI	Lamination structure	3+N+3	7+N+7
	min laser hole	100µm	70µm
	max pressing	3 times	5 - 7 times
	blind hole aspect ratio	0.9 : 1	0.9 : 1
RigidFlex	laminated structure	single & multiple with symmetrical structure	Hybrid structure
	min spacing Cu feature to flex-rigid transition – outer layers	≥300µm	≥300µm
	min spacing Cu feature to flex-rigid transition – inner layers	≥800µm	≥800µm
	min Length of the flex area	≥5mm	≥2.5mm
	min flex thickness	50µm (no copper)	12.5µm (no copper)
High Frequency & High-speed	microwave frequency band / max. transmission rate	0-128Ghz / 128Gbs	
	Impedance accuracy	±5% (for > 50Ω)	
General material	Standard : CEM, FR4(Low, Mid, High TG), Metal core, Polyimide, Isola, Nanya, Shengyi, IT180A and other general types High Frequency & High-speed : Isola I-Speed, Astra, Panasonic, Megtron 6/7, Nelco N4000 series, Rogers, RT/Duroid 5880, Taconic, Arlon, ITEQ, PTFE & other high-speed materials Flex PCB : Polyimide (PI) + RA copper as industry standard all other types of Flex material		
Surface Finish	OSP, HASL/HASL LF, ENIG/ENEPIG, Hard gold/soft gold, Immersion Silver, Immersion Tin, ENIG+hard gold, ENIG+OSP		
Special Technology	Step milling, Depth milling, Edge plating, Edge Bevelling, Countersink drilling, Blind holes, Back drilling, Jump V-score		
Via Plugging	Inner Layers (IPC-4761)	Inner layer Filled Via - Type V	
	Outer Layers (IPC-4761)	Plugged via Type III-a (one side)	
		Filled & Covered Via (solder mask / resin non-conductive) Type VI-a & VI-b	
		Filled & Capped Via with (open / covered in solder mask) Type VII	
Additional Prints	Peelable mask	Yes	
	Kapton tape – to cover larger holes	Yes	
	Carbon	Yes	
Quality	Rigid Pcb - IPC 6012, Flex Pcb - IPC 6013	IPC-A-600 Class 1 & 2 & 3	
	Reports	Standard & Detailed	