

PROCESS CAPABILITY			
CATEGORY	FEATURE	STANDARD	ADVANCED
STANDARD PCB	number of Layers	2L – 26L	26 - 68L
	overall board thickness	0.1 – 6 mm	9mm
	min Line width / spacing	75µm / 75µm (3/3 mil)	50 µm/50µm
	max PCB size	800 x 620 mm	800×620mm
	min drill hole size	0.20 mm	0.15mm
	max copper thickness	6 OZ (Inner) 10 OZ (Outer)	12 OZ(Inner) 14 OZ(Outer)
	min solder mask dam	50 µm (2mil)	50µm
	aspect ratio	10: 1	20: 1
	impedance tolerance	±10%	±8%
HDI	Lamination structure	3+N+3	0.250” - 0.325”
	min laser hole	100µm	17.0” X 23.0”
	max pressing	3 times	36 Layers
	blind hole aspect ratio	0.9 :1	0.9 :1
RIGID FLEX	laminated structure	single & multiple with symmetrical structure	hybrid
	min spacing Cu feature to flex-rigid transition – outer layers	≥300 µm	≥300µm
	min spacing Cu feature to flex-rigid transition – inner layers	≥800µm	≥800µm
	min length of the flex area	≥5mm	≥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	<b>Standard:</b> CEM, FR4(Low, Mid, High TG), Metal core, Polyimide, Isola, Nanya, Shengyi,	IT180A and other general types	
	<b>High Frequency &amp; High-speed:</b> Isola I-Speed, Astra, Panasonic, Megtron 6/7, Nelco N4000 series, Rogers,	RT/Duroid 5880, Taconic, Arlon, ITEQ, PTFE and other high-speed materials	
	<b>Flex PCB:</b> 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, Bevelling, Edge Bevelling,	Countersink drilling, Blind holes, Back drilling, Jump V-cut milling	
VIA PLUGGING	IPC - 4761 Inner Layers	Inner layer Filled Via - Type V	
	IPC - 4761 Outer Layers	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	IPC 6012	Class 1 & 2 & 3	
	Reports	Standard & Detailed	