

## Rigid Flex PCBs

Items			2017		2018		2019		
			Mass	Sample	Mass	Sample	Mass	Sample	
Layers	FPC		6	10	8	10	8	10	
	Rigid-Flex	flexible part	18	20	20	24	24	28	
		Total	22	30	24	30	28	32	
Min. CCL thickness (um)			50	/	50	/	50	/	
Min. FCCL thickness(um)			25	12.5	12.5	/	12.5	/	
Min. Copper thickness of FCCL (um)			12	9	9	/	9	/	
Min. thickness (mm)	Double side FPC		0.13	0.11	0.11	0.09	0.09	/	
	4 layers Rigid-flex		0.26	/	0.26	/	0.26	/	
Line width (um)	Inner layer(Hoz)		65/65	50/60	50/60	50/50	50/50	40/50	
	Outer layer (Hoz+plating)		75/75	65/75	65/75	60/60	60/60	50/50	
Registration (um)			114	100	100	89	100	75	
Min. Hole(mm)	Min Mechanical Drill		0.15	0.10	0.10	/	0.10	/	
	Min Laser Drill		0.1	0.05	0.089	0.05	0.089	0.025	
Structure	Symmetric		M	/	M	/	M	/	
	Asymmetric		M	/	M	/	M	/	
Impedance control			+10%	+8%	+10%	+8%	+/-10%	+/-7%	
FPC routing tolerance(mm)			+0.1	+0.05	+0.1	+0.05	+0.1	+0.05	
Finish			<b>HASL/Immersion gold/Immersion silver/Immersion tin/OSP/ENEPIG</b>						
High speed FPC	Dupont TK		M	/	M	/	M	/	
	LCP		M	/	M	/	M	/	