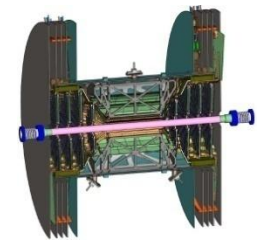


(Total thickness)/(Radiation length):

0.00419



fVTX Prototype HDI

Layer Thickness and Radiation Thickness

Radiation lengths (cm) of Layers: copper: 1.43 kapton: 28.6 epoxy: 44.37

	#of layers	fraction of layers	thickness (μm)	R _L	thickness (μm)	Production	Imp target	Ref plane (layer)
top covercoat	1	0.2	38	0.171287	10	10		
copper 1	1	0.8	12	6.713287	25	18	50 SE	2
kapton 1	1	1	25	0.874126	25	20		
epoxy 1	1	1	12	0.270453	12	15		
copper 2	1	0.9	12	7.552448	12	11		
kapton 2	1	1	40	1.398601	25	20		
epoxy 2	1	1	12	0.270453	12	15		
copper 3	1	0.1	12	0.839161	12	9	100 DIFF	2,4
kapton 3	1	1	50	1.748252	50	50		
copper 4	1	0.9	12	7.552448	12	11		
epoxy 3	1	1	12	0.270453	12	15		
kapton 4	1	1	40	1.398601	25	20		
copper 5	1	0.1	12	0.839161	12	11	100 DIFF	2,4
epoxy 4	1	1	12	0.270453	12	15		
kapton 5	1	1	40	1.398601	25	20		
copper 6	1	0.9	12	7.552448	12	11		
epoxy 5	1	1	12	0.270453	12	15		
kapton 6	1	1	25	0.874126	25	20		
copper 7	1	0.2	12	1.678322	25	18	50 SE	6
bottom covercoat	1	0.7	38	0.599504	10	10		
Total thickness (μm) of HDI:			440	42.54264	365	334		