

Schematic and PCB Design Courses - Online

<http://www.fedever.com/academy/>

Original Stackup

	Total Thickness (mil)	Total Thickness (um)	Er
L1	1.735	44.07	
Prepreg	4.5	114.30	3.72
L2	0.685	17.40	
Core	6	152.40	3.8
L3	0.685	17.40	
Prepreg	38	965.20	3.56
L4	0.685	17.40	
Core	6	152.40	3.8
L5	0.685	17.40	
Prepreg	4.5	114.30	3.72
L6	1.735	44.07	
Total Thickness	65.21	1656.33	

Suggested stackup

	Foil (oz)	Plating (mil)	Thickness (mil)	Total Thickness (mil)	Total Thickness (um)	Er
L1	0.33	0.8		1.2521	31.80	
Prepreg			4.64	4.64	117.86	4.3
L2	0.5			0.685	17.40	
Core			5.5	5.5	139.70	3.95
L3	0.5			0.685	17.40	
Prepreg			35.11	35.11	891.79	4.45
L4	0.5			0.685	17.40	
Core			5.5	5.5	139.70	3.95
L5	0.5			0.685	17.40	
Prepreg			4.64	4.64	117.86	4.3
L6	0.33	0.8		1.2521	31.80	
Total Thickness				60.63	1540.11	

Original track geometry

		Width(mil)	Space(mil)	Width (um)	Space(um)
L1,L6	DIFF90	6.40	6.59	162.56	167.39
	DIFF100	5.91	10.00	150.11	254.00
	SE55	5.91		150.11	
L3	DIFF90	8.00	6.30	203.20	160.02
	DIFF100	7.50	9.59	190.50	243.59
	SE55	8.00		203.20	

Suggested track geometry

		Width(mil)	Space(mil)	Width (um)	Space(um)
L1,L6	DIFF90	6	6.99	152.40	177.55
	DIFF100	5.4	10.51	137.16	266.95
	SE55	5.4		137.16	
L3	DIFF90	6.7	7.6	170.18	193.04
	DIFF100	6	11.09	152.40	281.69
	SE55	5.9		149.86	

Notes: