

Based Material Line Up



S1150GH Core/Prepreg Line up

1. Core (C-Stage)

Thickness		ply-up	RC (%)	Dk				Df			
mm	mil			1 GHz	3 GHz	5 GHz	10 GHz	1 GHz	3 GHz	5 GHz	10 GHz
0.040	1.57	1X1037	67	3.80	3.79	3.76	3.74	0.007	0.008	0.009	0.009
0.051	2.00	1X1067	66	3.82	3.81	3.79	3.77	0.007	0.008	0.009	0.009
0.058	2.28	1X1078	56	4.05	4.03	4.01	3.96	0.006	0.007	0.007	0.008
0.064	2.50	1X1067	72	3.72	3.70	3.68	3.64	0.007	0.009	0.009	0.010
0.064	2.50	1X1078	59	3.99	3.97	3.95	3.91	0.006	0.007	0.007	0.009
0.076	3.00	1X1080	65	3.85	3.83	3.81	3.76	0.007	0.008	0.009	0.009
0.076	3.00	1X1086	62	3.93	3.91	3.89	3.84	0.007	0.008	0.009	0.009
0.089	3.50	1X1086	67	3.80	3.79	3.76	3.74	0.007	0.008	0.009	0.009
0.102	4.00	1X2116	47	4.24	4.22	4.19	4.16	0.005	0.007	0.006	0.007
0.120	4.70	1X2116	54	4.10	4.09	4.06	4.04	0.006	0.007	0.007	0.008
0.127	5.00	1X2116	56	4.05	4.03	4.01	3.96	0.006	0.007	0.007	0.008
0.152	6.00	1X1506	44	4.31	4.29	4.26	4.24	0.006	0.007	0.007	0.008
0.178	7.00	1X7628	41	4.36	4.35	4.32	4.30	0.005	0.006	0.007	0.007
0.203	8.00	1X7628	46	4.26	4.23	4.20	4.18	0.006	0.007	0.007	0.008
0.229	9.00	2X2116	52	4.13	4.14	4.09	4.08	0.006	0.007	0.007	0.008
0.254	10.00	2X2116	56	4.05	4.03	4.01	3.96	0.006	0.007	0.007	0.008
0.279	11.00	2116+1080+2116	50	4.16	4.15	4.11	4.09	0.006	0.007	0.007	0.008
0.305	12.00	2X1506	44	4.31	4.29	4.26	4.24	0.006	0.007	0.007	0.008
0.330	13.00	1080+7628+1080	52	4.13	4.14	4.09	4.08	0.006	0.007	0.007	0.008

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0.356	14.00	2X7628	41	4.36	4.35	4.32	4.30	0.005	0.006	0.007	0.007
0.381	15.00	2X7628	44	4.31	4.29	4.26	4.24	0.006	0.007	0.007	0.008
0.400	15.74	2X7628	45	4.24	4.22	4.19	4.16	0.006	0.007	0.007	0.008
0.500	19.69	7628+2116+7628	46	4.26	4.23	4.2	4.18	0.006	0.007	0.007	0.008
0.600	23.62	3X7628	45	4.24	4.22	4.19	4.16	0.006	0.007	0.007	0.008
0.660	25.98	1506+2X7628+1506	42	4.35	4.34	4.29	4.28	0.005	0.006	0.007	0.007
0.800	31.50	4X7628	45	4.24	4.22	4.19	4.16	0.006	0.007	0.007	0.008
1.000	39.37	5X7628	45	4.24	4.22	4.19	4.16	0.006	0.007	0.007	0.008
1.200	47.24	6X7628	45	4.24	4.22	4.19	4.16	0.006	0.007	0.007	0.008
1.600	63.00	8X7628	45	4.24	4.22	4.19	4.16	0.006	0.007	0.007	0.008

2. Prepreg (B-Stage)

Glass style	RC (%) Nominal	Thickness		Dk				Df			
		mm	mil	1 GHz	3 GHz	5 GHz	10 GHz	1 GHz	3 GHz	5 GHz	10 GHz
1027	70	0.039	1.54	3.73	3.71	3.69	3.65	0.007	0.009	0.009	0.010
	72	0.043	1.68	3.72	3.70	3.68	3.64	0.007	0.009	0.009	0.010
	75	0.048	1.90	3.63	3.62	3.60	3.58	0.007	0.009	0.010	0.011
1037	71	0.047	1.85	3.73	3.71	3.69	3.65	0.007	0.009	0.009	0.010
	73	0.051	2.01	3.71	3.69	3.67	3.63	0.007	0.009	0.009	0.010
	75	0.056	2.19	3.63	3.62	3.60	3.58	0.007	0.009	0.010	0.011
	77	0.061	2.40	3.60	3.58	3.56	3.53	0.008	0.009	0.010	0.011
106	72	0.052	2.04	3.72	3.70	3.68	3.64	0.007	0.009	0.009	0.010
	75	0.059	2.32	3.63	3.62	3.60	3.58	0.007	0.009	0.010	0.011
	77	0.065	2.55	3.60	3.58	3.56	3.53	0.007	0.009	0.009	0.010
1067	69	0.058	2.27	3.76	3.75	3.73	3.68	0.007	0.009	0.009	0.009
	72	0.065	2.56	3.72	3.7	3.68	3.64	0.007	0.009	0.009	0.010

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	75	0.074	2.90	3.63	3.62	3.60	3.58	0.007	0.009	0.010	0.011
1078	63	0.072	2.85	3.91	3.88	3.87	3.82	0.007	0.008	0.009	0.009
	65	0.077	3.04	3.85	3.83	3.81	3.76	0.007	0.008	0.009	0.009
	67	0.083	3.26	3.80	3.79	3.76	3.74	0.007	0.008	0.009	0.009
	69	0.089	3.51	3.76	3.75	3.73	3.68	0.007	0.009	0.009	0.009
1080	63	0.074	2.91	3.91	3.88	3.87	3.82	0.007	0.008	0.009	0.009
	65	0.079	3.11	3.85	3.83	3.81	3.76	0.007	0.008	0.009	0.009
	67	0.085	3.33	3.80	3.79	3.76	3.74	0.007	0.008	0.009	0.009
	69	0.091	3.58	3.76	3.75	3.73	3.68	0.007	0.009	0.009	0.009
1086	62	0.078	3.06	3.93	3.91	3.89	3.84	0.007	0.008	0.009	0.009
	65	0.086	3.37	3.85	3.83	3.81	3.76	0.007	0.008	0.009	0.009
	67	0.092	3.61	3.80	3.79	3.76	3.74	0.007	0.008	0.009	0.009
	69	0.099	3.88	3.76	3.75	3.73	3.68	0.007	0.009	0.009	0.009
2313	55	0.099	3.90	4.07	4.05	4.03	3.98	0.006	0.007	0.007	0.008
	57	0.105	4.12	4.04	4.01	3.98	3.94	0.006	0.007	0.007	0.008
	59	0.111	4.37	3.99	3.97	3.95	3.91	0.006	0.007	0.007	0.009
2116	52	0.117	4.60	4.13	4.14	4.09	4.08	0.006	0.007	0.007	0.008
	56	0.130	5.12	4.05	4.03	4.01	3.96	0.006	0.007	0.007	0.008
	58	0.138	5.42	4.01	3.99	3.97	3.92	0.006	0.007	0.007	0.008
1506	45	0.156	6.13	4.29	4.27	4.25	4.23	0.006	0.007	0.007	0.008
	48	0.167	6.59	4.22	4.21	4.20	4.19	0.006	0.007	0.007	0.008
	50	0.176	6.93	4.16	4.15	4.11	4.09	0.006	0.007	0.007	0.008
7628	43	0.189	7.44	4.33	4.32	4.30	4.26	0.005	0.006	0.007	0.007
	45	0.198	7.80	4.29	4.27	4.25	4.23	0.006	0.007	0.007	0.008
	47	0.208	8.18	4.24	4.22	4.19	4.16	0.006	0.007	0.007	0.008
	50	0.224	8.82	4.16	4.15	4.11	4.09	0.006	0.007	0.007	0.008

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3. Remark

- 1) Dk/Df measuring method: IPC TM650-2.5.5.5C and modified TM650-2.5.5.5C
- 2) All the values listed above are for your reference only. Please contact Shengyi Technology Co., Ltd. for detailed information. All rights from this line up are reserved by Shengyi Technology Co., Ltd.
- 3) Last update: Apr, 2024