

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
0.051	2.00	1 X106	72	3.72	3.70	3.69	3.64	0.011	0.013	0.013	0.014
0.051	2.00	1 X1067	66	3.83	3.81	3.79	3.74	0.011	0.012	0.013	0.013
0.058	2.30	1 X1067	70	3.75	3.73	3.72	3.67	0.011	0.013	0.013	0.013
0.058	2.30	1 X1078	57	4.01	3.99	3.97	3.92	0.010	0.011	0.011	0.012
0.064	2.50	1 X1067	73	3.70	3.68	3.67	3.62	0.011	0.013	0.013	0.014
0.064	2.50	1 X1078	60	3.95	3.93	3.91	3.86	0.011	0.012	0.013	0.013
0.076	3.00	1 X1080	65	3.85	3.83	3.81	3.76	0.011	0.012	0.013	0.013
0.076	3.00	1 X1078	65	3.85	3.83	3.81	3.76	0.011	0.012	0.013	0.013
0.076	3.00	1 X1086	61	3.93	3.91	3.89	3.84	0.011	0.012	0.013	0.013
0.102	4.00	1 X3313	57	4.01	3.99	3.97	3.92	0.010	0.011	0.011	0.012
0.102	4.00	2 X106	72	3.72	3.70	3.69	3.64	0.011	0.013	0.013	0.014
0.114	4.50	1 X2116	52	4.12	4.08	4.04	4.00	0.009	0.011	0.011	0.012
0.127	5.00	1 X2116	56	4.03	4.01	3.99	3.94	0.010	0.011	0.011	0.012
0.127	5.00	2 X1080	60	3.95	3.93	3.91	3.86	0.011	0.012	0.013	0.013
0.152	6.00	1 X1506	45	4.26	4.26	4.22	4.20	0.008	0.010	0.010	0.011
0.152	6.00	2 X1080	65	3.85	3.83	3.81	3.76	0.011	0.012	0.013	0.013
0.178	7.00	1 X7628	43	4.31	4.30	4.27	4.25	0.008	0.010	0.010	0.010
0.178	7.00	2 X3313	52	4.12	4.08	4.04	4.00	0.009	0.011	0.011	0.012

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0.203	8.00	1 X7628	47	4.22	4.21	4.18	4.16	0.009	0.010	0.010	0.011
0.203	8.00	2 X3313	57	4.01	3.99	3.97	3.92	0.010	0.011	0.011	0.012
0.254	10.00	2 X2116	56	4.03	4.01	3.99	3.94	0.010	0.011	0.011	0.012
0.305	12.00	2 X1506	45	4.26	4.26	4.22	4.20	0.008	0.010	0.010	0.011
0.318	12.50	2 X1506	47	4.22	4.21	4.18	4.16	0.009	0.010	0.010	0.011
0.356	14.00	2 X7628	43	4.31	4.30	4.27	4.25	0.008	0.010	0.010	0.010
0.406	16.00	2 X7628	47	4.22	4.21	4.18	4.16	0.009	0.010	0.010	0.011
0.457	18.00	4 X2116	52	4.12	4.08	4.04	4.00	0.009	0.011	0.011	0.012
0.508	20.00	4 X2116	56	4.03	4.01	3.99	3.94	0.010	0.011	0.011	0.012
0.508	20.00	3 X7628	41	4.36	4.34	4.32	4.30	0.008	0.010	0.010	0.010
0.610	24.00	3 X7628	47	4.22	4.21	4.18	4.16	0.009	0.010	0.010	0.011
0.711	28.00	4 X7628	43	4.31	4.30	4.27	4.25	0.008	0.010	0.010	0.010
1.016	40.00	5 X7628	47	4.22	4.21	4.18	4.16	0.009	0.010	0.010	0.011
1.499	59.00	8 X7628	45	4.26	4.26	4.22	4.20	0.008	0.010	0.010	0.011
1.600	63.00	8 X7628	47	4.22	4.21	4.18	4.16	0.009	0.010	0.010	0.011

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	72	0.041	1.60	3.72	3.70	3.69	3.64	0.011	0.013	0.013	0.014
	75	0.046	1.80	3.64	3.62	3.60	3.56	0.011	0.013	0.014	0.015
	77	0.051	2.00	3.60	3.58	3.56	3.52	0.011	0.014	0.015	0.015
1037	72	0.048	1.90	3.72	3.70	3.69	3.64	0.011	0.013	0.013	0.014

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	75	0.053	2.10	3.64	3.62	3.60	3.56	0.011	0.013	0.014	0.015
	77	0.058	2.30	3.60	3.58	3.56	3.52	0.011	0.014	0.015	0.015
106	72	0.051	2.00	3.72	3.70	3.69	3.64	0.011	0.013	0.013	0.014
	75	0.056	2.20	3.64	3.62	3.60	3.56	0.011	0.013	0.014	0.015
	77	0.061	2.40	3.60	3.58	3.56	3.52	0.011	0.014	0.015	0.015
1067	70	0.058	2.30	3.75	3.73	3.72	3.67	0.011	0.013	0.013	0.013
	72	0.064	2.50	3.72	3.70	3.69	3.64	0.011	0.013	0.013	0.014
	75	0.071	2.80	3.64	3.62	3.60	3.56	0.011	0.013	0.014	0.015
1080/1078	65	0.076	3.00	3.85	3.83	3.81	3.76	0.011	0.012	0.013	0.013
	69	0.086	3.40	3.76	3.75	3.73	3.68	0.011	0.013	0.013	0.013
	71	0.094	3.70	3.73	3.71	3.71	3.66	0.011	0.013	0.013	0.014
3313	57	0.102	4.00	4.01	3.99	3.97	3.92	0.010	0.011	0.011	0.012
	59	0.109	4.30	3.97	3.95	3.93	3.88	0.011	0.012	0.013	0.013
	61	0.114	4.50	3.93	3.91	3.89	3.84	0.011	0.012	0.013	0.013
2116	55	0.122	4.80	4.05	4.03	4.01	3.96	0.010	0.011	0.011	0.012
	59	0.137	5.40	3.97	3.95	3.93	3.88	0.011	0.012	0.013	0.013
1506	48	0.163	6.40	4.21	4.20	4.17	4.15	0.009	0.010	0.010	0.011
	50	0.170	6.70	4.16	4.13	4.09	4.05	0.009	0.011	0.011	0.012
7628	46	0.196	7.70	4.24	4.23	4.20	4.18	0.009	0.010	0.010	0.011
	49	0.211	8.30	4.18	4.17	4.13	4.10	0.009	0.010	0.010	0.011
	50	0.221	8.70	4.16	4.13	4.09	4.05	0.009	0.011	0.011	0.012

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

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3) Last update: March, 2022