

Based Material Line Up



Autolad1/ Autolad1B

1. CORE (C-STAGE)

Thickness		ply-up	RC (%)	Dk				Df			
mm	mils			1 GHz	3 GHz	5 GHz	10 GHz	1GHz	3 GHz	5 GHz	10 GHz
0.050	2.00	1x1067	66	3.74	3.66	3.64	3.64	0.016	0.016	0.016	0.016
0.063	2.52	1x1067	72	3.59	3.51	3.49	3.48	0.017	0.017	0.017	0.017
0.076	3.04	1x1080	65	3.76	3.69	3.67	3.66	0.016	0.016	0.016	0.016
0.090	3.60	1X3313	53	4.06	3.98	3.97	3.97	0.013	0.013	0.014	0.014
0.100	4.00	1x3313	57	3.96	3.89	3.87	3.87	0.014	0.015	0.015	0.015
0.110	4.40	1x2116	51	4.11	4.03	4.02	4.02	0.013	0.013	0.014	0.014
0.125	5.00	1x2116	56	3.98	3.91	3.90	3.89	0.014	0.014	0.015	0.015
0.150	6.00	1x1506	45	4.25	4.18	4.18	4.17	0.011	0.012	0.012	0.013
0.200	8.00	1x7628	47	4.20	4.13	4.13	4.12	0.012	0.012	0.013	0.013
0.240	9.60	2x2116	54	4.03	3.96	3.95	3.94	0.013	0.014	0.014	0.014
0.300	12.00	2X1506	45	4.25	4.18	4.18	4.17	0.011	0.012	0.012	0.013
0.350	14.00	2x7628	41	4.33	4.26	4.25	4.25	0.011	0.012	0.012	0.012
0.400	16.00	2x7628	47	4.20	4.13	4.13	4.12	0.012	0.012	0.013	0.013
0.450	18.00	2X7628+1080	47	4.20	4.13	4.13	4.12	0.012	0.012	0.013	0.013
0.500	20.00	2X7628+2116	47	4.20	4.13	4.13	4.12	0.012	0.012	0.013	0.013
0.600	24.00	3X7628	47	4.20	4.13	4.13	4.12	0.012	0.012	0.013	0.013
0.800	32.00	4X7628	47	4.20	4.13	4.13	4.12	0.012	0.012	0.013	0.013
1.000	40.00	5X7628	47	4.20	4.13	4.13	4.12	0.012	0.012	0.013	0.013

Based Material Line Up



2. PREPREG (B-STAGE)

Glass style	RC (%) Nominal	Thickness		Dk				Df			
		mm	mil	1GHz	3 GHz	5 GHz	10 GHz	1 GHz	3 GHz	5 GHz	10 GHz
7628	46	0.195	7.68	4.22	4.16	4.14	4.14	0.012	0.012	0.013	0.013
	48	0.205	8.07	4.18	4.11	4.09	4.09	0.012	0.013	0.013	0.014
	50	0.215	8.46	4.13	4.06	4.05	4.05	0.013	0.013	0.014	0.014
	52	0.225	8.86	4.09	4.01	4.01	4.01	0.013	0.013	0.014	0.014
1506	48	0.16	6.30	4.18	4.11	4.09	4.09	0.012	0.013	0.013	0.014
	50	0.170	6.69	4.13	4.06	4.05	4.05	0.013	0.013	0.014	0.014
	52	0.180	7.09	4.09	4.01	4.01	4.01	0.013	0.013	0.014	0.014
2116	55	0.120	4.72	4.01	3.93	3.91	3.91	0.014	0.014	0.015	0.015
	58	0.130	5.12	3.93	3.86	3.84	3.84	0.014	0.015	0.015	0.015
3313	57	0.100	3.94	3.96	3.89	3.87	3.87	0.014	0.015	0.015	0.015
1080	65	0.072	2.83	3.76	3.69	3.67	3.66	0.016	0.016	0.016	0.016
	68	0.081	3.19	3.69	3.61	3.59	3.59	0.016	0.016	0.017	0.017
	70	0.087	3.43	3.64	3.55	3.54	3.53	0.017	0.017	0.017	0.017
1067	70	0.057	2.30	3.64	3.55	3.54	3.53	0.017	0.017	0.017	0.017
	73	0.064	2.52	3.57	3.49	3.45	3.45	0.018	0.018	0.018	0.018
	76	0.073	2.87	3.54	3.44	3.43	3.42	0.018	0.018	0.018	0.018
106	73	0.050	1.97	3.57	3.49	3.45	3.45	0.018	0.018	0.018	0.018
	78	0.063	2.48	3.53	3.43	3.42	3.41	0.018	0.018	0.018	0.018

3. Remark

Based Material Line Up

- 1) Test Method: 10GHz@ IPC TM650-2.5.5.5C, 1/3/5GHz@ Modified IPC 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 Updated date: March, 2023.