Base Material Line Up

Autolad3/ Autolad3B

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
0.050	2.0	1x1067	66	4.04	4.02	4	3.97	0.015	0.015	0.015	0.016
0.063	2.5	1x1067	73	3.9	3.88	3.86	3.83	0.016	0.016	0.016	0.017
0.076	3.0	1x1080	66	4.04	4.02	4	3.97	0.015	0.015	0.015	0.016
0.076	3.0	1X1086	63	4.1	4.08	4.06	4.03	0.014	0.015	0.015	0.016
0.09	3.6	1X3313	53	4.3	4.28	4.26	4.23	0.013	0.013	0.014	0.014
0.10	4.0	1X3313	57	4.22	4.2	4.18	4.15	0.014	0.014	0.014	0.015
0.10	4.0	2x106	73	3.9	3.88	3.86	3.83	0.016	0.016	0.016	0.017
0.11	4.3	1x2116	51	4.34	4.32	4.3	4.27	0.013	0.013	0.014	0.014
0.11	4.5	1x2116	53	4.3	4.28	4.26	4.23	0.013	0.013	0.014	0.014
0.13	5.0	1x2116	57	4.22	4.2	4.18	4.15	0.014	0.014	0.014	0.015
0.13	5.0	2x1067	73	3.9	3.88	3.86	3.83	0.016	0.016	0.016	0.017
0.15	6.0	1x1506	46	4.44	4.42	4.4	4.37	0.012	0.012	0.013	0.013
0.15	6.0	2x1086	63	4.1	4.08	4.06	4.03	0.014	0.015	0.015	0.016
0.15	6.0	2X1080	66	4.04	4.02	4	3.97	0.015	0.015	0.015	0.016
0.20	8.0	1x7628	47	4.42	4.4	4.38	4.35	0.012	0.013	0.013	0.013
0.20	8.0	2x3313	57	4.22	4.2	4.18	4.15	0.014	0.014	0.014	0.015
0.23	9.0	2x2116	54	4.28	4.26	4.24	4.21	0.013	0.013	0.014	0.014
0.24	9.6	2x2116	55	4.26	4.24	4.22	4.19	0.013	0.014	0.014	0.014
0.25	10.0	2x2116	57	4.22	4.2	4.18	4.15	0.014	0.014	0.014	0.015
0.30	12.0	2x1506	46	4.44	4.42	4.4	4.37	0.012	0.012	0.013	0.013

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0.35	14.0	2x7628	42	4.52	4.5	4.48	4.45	0.012	0.012	0.012	0.013
0.40	16.0	2x7628	47	4.42	4.4	4.38	4.35	0.012	0.013	0.013	0.013
0.45	18.0	2X7628+1080	48	4.4	4.38	4.36	4.33	0.012	0.013	0.013	0.014
0.50	20.0	2X7628+2116	48	4.4	4.38	4.36	4.33	0.012	0.013	0.013	0.014
0.60	24.0	3X7628	47	4.42	4.4	4.38	4.35	0.012	0.013	0.013	0.013
0.80	32.0	4X7628	47	4.42	4.4	4.38	4.35	0.012	0.013	0.013	0.013

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
106	73	0.05	2.0	3.9	3.88	3.86	3.83	0.016	0.016	0.016	0.017
106	77	0.06	2.4	3.82	3.8	3.78	3.75	0.016	0.016	0.017	0.017
1080/1078	64	0.072	2.8	4.08	4.06	4.04	4.01	0.014	0.015	0.015	0.016
1086	63	0.076	3.0	4.1	4.08	4.06	4.03	0.014	0.015	0.015	0.016
1080/1078	69	0.086	3.4	3.98	3.96	3.94	3.91	0.015	0.015	0.016	0.016
1080	72	0.097	3.8	3.92	3.9	3.88	3.85	0.015	0.016	0.016	0.017
3313	56	0.096	3.8	4.24	4.22	4.2	4.17	0.013	0.014	0.014	0.015
3313	58	0.102	4.0	4.2	4.18	4.16	4.13	0.014	0.014	0.014	0.015
2116	52	0.112	4.4	4.32	4.3	4.28	4.25	0.013	0.013	0.014	0.014
2116	54	0.117	4.6	4.28	4.26	4.24	4.21	0.013	0.013	0.014	0.014
2116	57	0.127	5.0	4.22	4.2	4.18	4.15	0.014	0.014	0.014	0.015
2116	60	0.139	5.5	4.16	4.14	4.12	4.09	0.014	0.014	0.015	0.015
1506	46	0.15	5.9	4.44	4.42	4.4	4.37	0.012	0.012	0.013	0.013

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1506	48	0.16	6.3	4.4	4.38	4.36	4.33	0.012	0.013	0.013	0.014
7628	45	0.19	7.5	4.48	4.46	4.44	4.41	0.012	0.013	0.013	0.013
7628	47	0.2	7.7	4.42	4.4	4.38	4.35	0.012	0.013	0.013	0.013
7628	50	0.215	8.5	4.36	4.34	4.32	4.29	0.013	0.013	0.013	0.014
7628	52	0.226	8.9	4.32	4.3	4.28	4.25	0.013	0.013	0.014	0.014

3. Remark

1) Test Method: 10GHz@ IPC TM650-2.5.5.5C, 1/3/5GHz@ Modified IPC TM650-2.5.5.5C

2) All the data listed above is for designer's reference, not guarantee value for quality spec.

3) Last updated date: Apr, 2021

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