

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	4.00	3.97	0.015	0.015	0.015	0.016
0.063	2.5	1x1067	73	3.90	3.88	3.86	3.83	0.016	0.016	0.016	0.017
0.076	3.0	1x1080	66	4.04	4.02	4.00	3.97	0.015	0.015	0.015	0.016
0.076	3.0	1X1086	63	4.10	4.08	4.06	4.03	0.014	0.015	0.015	0.016
0.090	3.6	1X3313	53	4.30	4.28	4.26	4.23	0.013	0.013	0.014	0.014
0.100	4.0	1X3313	57	4.22	4.20	4.18	4.15	0.014	0.014	0.014	0.015
0.100	4.0	2x106	73	3.90	3.88	3.86	3.83	0.016	0.016	0.016	0.017
0.110	4.3	1x2116	51	4.34	4.32	4.30	4.27	0.013	0.013	0.014	0.014
0.110	4.5	1x2116	53	4.30	4.28	4.26	4.23	0.013	0.013	0.014	0.014
0.130	5.0	1x2116	57	4.22	4.20	4.18	4.15	0.014	0.014	0.014	0.015
0.130	5.0	2x1067	73	3.90	3.88	3.86	3.83	0.016	0.016	0.016	0.017
0.150	6.0	1x1506	46	4.44	4.42	4.40	4.37	0.012	0.012	0.013	0.013
0.150	6.0	2x1086	63	4.10	4.08	4.06	4.03	0.014	0.015	0.015	0.016
0.150	6.0	2X1080	66	4.04	4.02	4.00	3.97	0.015	0.015	0.015	0.016
0.200	8.0	1x7628	47	4.42	4.40	4.38	4.35	0.012	0.013	0.013	0.013
0.200	8.0	2x3313	57	4.22	4.20	4.18	4.15	0.014	0.014	0.014	0.015
0.200	8.0	2x2116	50	4.36	4.34	4.32	4.29	0.013	0.013	0.013	0.014
0.230	9.0	2x2116	54	4.28	4.26	4.24	4.21	0.013	0.013	0.014	0.014
0.240	9.6	2x2116	55	4.26	4.24	4.22	4.19	0.013	0.014	0.014	0.014

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0.250	10.0	2x2116	57	4.22	4.20	4.18	4.15	0.014	0.014	0.014	0.015
0.300	12.0	2x1506	46	4.44	4.42	4.4	4.37	0.012	0.012	0.013	0.013
0.350	14.0	2x7628	42	4.52	4.50	4.48	4.45	0.012	0.012	0.012	0.013
0.400	16.0	2x7628	47	4.42	4.40	4.38	4.35	0.012	0.013	0.013	0.013
0.450	18.0	2X7628+1X1080	48	4.40	4.38	4.36	4.33	0.012	0.013	0.013	0.014
0.500	20.0	2X7628+1X 2116	48	4.40	4.38	4.36	4.33	0.012	0.013	0.013	0.014
0.600	24.0	3X7628	47	4.42	4.40	4.38	4.35	0.012	0.013	0.013	0.013
0.710	28.0	4X7628	44	4.48	4.46	4.44	4.41	0.012	0.012	0.013	0.013
0.800	32.0	4X7628	47	4.42	4.40	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	0.050	2.0	3.90	3.88	3.86	3.83	0.016	0.016	0.016	0.017
106	77	0.060	2.4	3.82	3.80	3.78	3.75	0.016	0.016	0.017	0.017
1067	71	0.058	2.3	3.94	3.92	3.90	3.87	0.015	0.016	0.016	0.017
1067	73	0.063	2.5	3.90	3.88	3.86	3.83	0.016	0.016	0.016	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	4.10	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	3.90	3.88	3.85	0.015	0.016	0.016	0.017
3313	56	0.096	3.8	4.24	4.22	4.20	4.17	0.013	0.014	0.014	0.015
3313	58	0.102	4.0	4.20	4.18	4.16	4.13	0.014	0.014	0.014	0.015

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2116	52	0.112	4.4	4.32	4.30	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	4.20	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	0.150	5.9	4.44	4.42	4.40	4.37	0.012	0.012	0.013	0.013
1506	48	0.160	6.3	4.40	4.38	4.36	4.33	0.012	0.013	0.013	0.014
7628	45	0.190	7.5	4.48	4.46	4.44	4.41	0.012	0.013	0.013	0.013
7628	47	0.200	7.7	4.42	4.40	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	4.30	4.28	4.25	0.013	0.013	0.014	0.014

3. Remark

- 1) Dk/Df test method: IPC-TM-650 2.5.5.5 Stripline.
- 2) The above data are intended for reference only. SYTECH reserves the right to make any update.