

Base Material Line Up



SDI03K/SDI03KB

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
0.030	1.2	1x1027	64	3.62	3.70	3.68	3.64	0.0080	0.0115	0.0117	0.0121
0.038	1.5	1x1027	69	3.52	3.59	3.56	3.53	0.0082	0.0117	0.0119	0.0124
0.043	1.7	1x1037	69	3.52	3.59	3.56	3.53	0.0082	0.0117	0.0119	0.0124
0.048	1.9	1x1037	71	3.47	3.55	3.51	3.48	0.0083	0.0118	0.0120	0.0124
0.053	2.1	1x1037	73	3.43	3.51	3.46	3.44	0.0083	0.0119	0.0121	0.0126
0.053	2.1	1x1067	66	3.58	3.66	3.63	3.59	0.0081	0.0116	0.0118	0.0123
0.058	2.3	1x1078	55	3.82	3.90	3.89	3.84	0.0077	0.0110	0.0114	0.0118
0.064	2.5	1x1078	58	3.75	3.83	3.82	3.77	0.0078	0.0112	0.0115	0.0119
0.076	3.0	1x1086	60	3.71	3.79	3.77	3.73	0.0079	0.0113	0.0116	0.0120
0.089	3.5	1x1086	66	3.58	3.66	3.63	3.59	0.0081	0.0116	0.0118	0.0123
0.089	3.5	1x3313	51	3.91	3.99	3.98	3.93	0.0076	0.0108	0.0113	0.0116
0.102	4.0	1x3313	56	3.80	3.88	3.87	3.82	0.0077	0.0111	0.0114	0.0118
0.107	4.2	1x2116	49	3.95	4.03	4.02	3.98	0.0075	0.0107	0.0112	0.0115
0.127	5.0	1x2116	55	3.82	3.90	3.89	3.84	0.0077	0.0110	0.0114	0.0118
0.127	5.0	2x1080	58	3.75	3.83	3.82	3.77	0.0078	0.0112	0.0115	0.0119
0.163	6.4	1x1506	47	3.99	4.08	4.07	4.02	0.0074	0.0106	0.0111	0.0115
0.203	8.0	1x7628	45	4.04	4.13	4.12	4.07	0.0073	0.0105	0.0110	0.0114
0.254	10.0	2x2116	55	3.82	3.90	3.89	3.84	0.0077	0.0110	0.0114	0.0118
0.318	12.5	2x1506	47	3.99	4.08	4.07	4.02	0.0074	0.0106	0.0111	0.0115
0.406	16.0	2x7628	45	4.04	4.13	4.12	4.07	0.0073	0.0105	0.0110	0.0114

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2. PREPREG (B-STAGE)

Glass type	RC (%) Nominal	Thickness		Dk				Df			
		mm	mil	1GHz	3GHz	5GHz	10GHz	1 GHz	3 GHz	5 GHz	10 GHz
1017	75	0.028	1.1	3.38	3.46	3.42	3.39	0.0084	0.0120	0.0122	0.0127
	77	0.031	1.2	3.34	3.42	3.37	3.35	0.0085	0.0121	0.0122	0.0128
	79	0.034	1.3	3.32	3.38	3.32	3.30	0.0085	0.0122	0.0123	0.0129
1027	69	0.036	1.4	3.52	3.59	3.56	3.53	0.0082	0.0117	0.0119	0.0124
	71	0.040	1.6	3.47	3.55	3.51	3.48	0.0083	0.0118	0.0120	0.0124
	73	0.044	1.7	3.43	3.51	3.46	3.44	0.0083	0.0119	0.0121	0.0126
	75	0.050	2.0	3.38	3.46	3.42	3.39	0.0084	0.0120	0.0122	0.0127
1037	69	0.043	1.7	3.52	3.59	3.56	3.53	0.0082	0.0117	0.0119	0.0124
	71	0.046	1.8	3.47	3.55	3.51	3.48	0.0083	0.0118	0.0120	0.0124
	73	0.050	2.0	3.43	3.51	3.46	3.44	0.0083	0.0119	0.0121	0.0126
	75	0.054	2.1	3.38	3.46	3.42	3.39	0.0084	0.0120	0.0122	0.0127
106	69	0.046	1.8	3.52	3.59	3.56	3.53	0.0082	0.0117	0.0119	0.0124
	71	0.050	2.0	3.47	3.55	3.51	3.48	0.0083	0.0118	0.0120	0.0124
	73	0.054	2.1	3.43	3.51	3.46	3.44	0.0083	0.0119	0.0121	0.0126
	75	0.058	2.3	3.38	3.46	3.42	3.39	0.0084	0.0120	0.0122	0.0127
1067	69	0.056	2.3	3.52	3.59	3.56	3.53	0.0082	0.0117	0.0119	0.0124
	71	0.062	2.4	3.47	3.55	3.51	3.48	0.0083	0.0118	0.0120	0.0124
	73	0.068	2.7	3.43	3.51	3.46	3.44	0.0083	0.0119	0.0121	0.0126
	75	0.075	3.0	3.38	3.46	3.42	3.39	0.0084	0.0120	0.0122	0.0127
1078	65	0.079	3.1	3.60	3.68	3.65	3.62	0.0081	0.0115	0.0118	0.0122
	67	0.085	3.3	3.56	3.64	3.61	3.57	0.0081	0.0116	0.0119	0.0123

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1080	64	0.078	3.1	3.62	3.70	3.68	3.64	0.0080	0.0115	0.0117	0.0121
	66	0.084	3.3	3.58	3.66	3.63	3.59	0.0081	0.0116	0.0118	0.0123
	68	0.090	3.5	3.54	3.62	3.58	3.55	0.0082	0.0117	0.0119	0.0124
3313	56	0.102	4.0	3.80	3.88	3.87	3.82	0.0077	0.0111	0.0114	0.0118
	58	0.110	4.3	3.75	3.83	3.82	3.77	0.0078	0.0112	0.0115	0.0119
2116	51	0.115	4.5	3.91	3.99	3.98	3.93	0.0076	0.0108	0.0113	0.0116
	54	0.127	5.0	3.84	3.92	3.91	3.86	0.0076	0.0110	0.0114	0.0117
7628	45	0.200	7.8	4.04	4.13	4.12	4.07	0.0073	0.0105	0.0110	0.0114

3. REMARK

- 1) Test method: 1GHz by TM-650 2.5.5.9;3/5/10GHz by TM- 650 2.5.5.5.
- 2) Updated date: Dec, 2022.
- 3) 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.