

# 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
0.040	1.6	1×1027	68%	3.51	3.61	3.61	3.61	0.0065	0.0100	0.0100	0.0100
0.045	1.8	1×1037	67%	3.53	3.63	3.63	3.63	0.0063	0.0098	0.0098	0.0100
0.050	2.0	1×106	68%	3.51	3.61	3.61	3.61	0.0065	0.0100	0.0100	0.0100
0.050	2.0	1×1067	62%	3.60	3.72	3.72	3.72	0.0060	0.0096	0.0096	0.0098
0.058	2.3	1×1067	66%	3.55	3.66	3.66	3.66	0.0062	0.0097	0.0098	0.0098
0.061	2.4	1×1078	54%	3.76	3.92	3.92	3.92	0.0056	0.0092	0.0092	0.0093
0.064	2.5	1×1078	56%	3.72	3.88	3.88	3.87	0.0056	0.0092	0.0092	0.0093
0.076	3.0	1×1078	62%	3.60	3.72	3.72	3.72	0.0060	0.0096	0.0096	0.0098
0.076	3.0	1×1080	61%	3.62	3.77	3.77	3.76	0.0058	0.0094	0.0094	0.0095
0.076	3.0	1×1086	57%	3.71	3.86	3.86	3.85	0.0056	0.0092	0.0092	0.0093
0.100	4.0	1×2116	44%	4.14	4.24	4.24	4.24	0.0054	0.0092	0.0092	0.0092
0.127	5.0	1×2116	52%	3.80	3.96	3.96	3.95	0.0056	0.0092	0.0092	0.0093

### 2. PREPREG (B-STAGE)

Glass style	RC (%) Nominal	Thickness		Dk				Df			
		mm	mil	1GHz	3GHz	5GHz	10GHz	1 GHz	3 GHz	5 GHz	10 GHz
1017	72%	0.030	1.18	3.44	3.52	3.52	3.52	0.0066	0.0101	0.0101	0.0102
	75%	0.035	1.38	3.38	3.45	3.45	3.45	0.0066	0.0102	0.0102	0.0103

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1027	68%	0.040	1.57	3.51	3.61	3.61	3.61	0.0065	0.0100	0.0100	0.0100
	70%	0.042	1.65	3.47	3.56	3.56	3.56	0.0065	0.0100	0.0100	0.0101
	72%	0.045	1.77	3.44	3.52	3.52	3.52	0.0066	0.0101	0.0101	0.0102
	75%	0.050	1.97	3.38	3.45	3.45	3.45	0.0066	0.0102	0.0102	0.0103
1037	67%	0.045	1.77	3.53	3.63	3.63	3.63	0.0063	0.0098	0.0098	0.0100
	69%	0.049	1.93	3.49	3.59	3.59	3.58	0.0065	0.0101	0.0101	0.0102
	72%	0.054	2.13	3.44	3.52	3.52	3.52	0.0066	0.0101	0.0101	0.0102
	75%	0.062	2.44	3.38	3.45	3.45	3.45	0.0066	0.0102	0.0102	0.0103
106	72%	0.056	2.20	3.44	3.52	3.52	3.52	0.0066	0.0101	0.0101	0.0102
	75%	0.063	2.48	3.38	3.45	3.45	3.45	0.0066	0.0102	0.0102	0.0103
1067	67%	0.060	2.36	3.53	3.63	3.63	3.63	0.0063	0.0098	0.0098	0.0100
	69%	0.064	2.52	3.49	3.59	3.59	3.58	0.0065	0.0101	0.0101	0.0102
1078	64%	0.079	3.11	3.58	3.70	3.70	3.69	0.0061	0.0096	0.0096	0.0098
	66%	0.088	3.46	3.55	3.66	3.66	3.66	0.0062	0.0097	0.0098	0.0098
1080	64%	0.079	3.11	3.58	3.70	3.70	3.69	0.0061	0.0096	0.0096	0.0098
	66%	0.088	3.46	3.55	3.66	3.66	3.66	0.0062	0.0097	0.0098	0.0098
	68%	0.096	3.78	3.51	3.61	3.61	3.61	0.0065	0.0100	0.0100	0.0100

## 3. REMARK

- 1) Test method: SPDR
- 2) Updated date: July, 2018
- 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.