

# Based Material Line Up

## S1600L/S1600LB

### 1. CORE (C-STAGE)

Thickness		ply-up	RC (%)	Dk		Df	
mm	mil			1 MHz	1 GHz	1 MHz	1 GHz
0.15	5.40	2×1080	66	4.9	4.4	0.022	0.017
0.20	7.87	1×7628	48	5.1	4.6	0.018	0.014
0.25	9.84	2×2116	57	5.0	4.5	0.020	0.016
0.30	11.81	2116+1080+2116	56	5.0	4.5	0.020	0.016
0.40	15.75	2×7628	47	5.1	4.7	0.018	0.014
0.46	18.11	1×1080+2×7628	51	5.1	4.6	0.019	0.015
0.48	18.90	1×2116+2×7628	47	5.1	4.7	0.018	0.014
0.50	19.69	1×2116+2×7628	49	5.1	4.6	0.019	0.015
0.56	22.05	3×7628	46	5.1	4.7	0.018	0.014
0.60	23.62	3×7628	47	5.1	4.7	0.018	0.014
0.64	25.20	2×2116+2×7628	51	5.1	4.6	0.019	0.015
0.66	25.98	2×1506+2×7628	45	5.2	4.7	0.018	0.014
0.71	27.95	4×7628	43	5.2	4.7	0.017	0.014
0.76	29.92	4×7628	45	5.2	4.7	0.017	0.014
0.80	31.50	4×7628	47	5.1	4.7	0.018	0.014
0.90	35.43	1×2116+4×7628	47	5.1	4.7	0.018	0.014
1.00	39.37	5×7628	47	5.1	4.7	0.018	0.014
1.20	47.24	6×7628	47	5.1	4.7	0.018	0.014
1.40	55.12	7×7628	47	5.1	4.7	0.018	0.014

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1.50	59.06	8×7628	46	5.1	4.7	0.018	0.014
1.60	62.99	9×7628	44	5.2	4.7	0.017	0.014

## 2. PREPREG (B-STAGE)

Glass s Style	RC (%) Nominal	Thickness		DK		Df	
		mm	mil	1 MHz	1 GHz	1 MHz	1 GHz
7628	46	0.190	7.48	5.1	4.7	0.018	0.014
7628	48	0.200	7.87	5.1	4.6	0.018	0.014
7628	50	0.210	8.27	5.1	4.6	0.018	0.015
2116	52	0.110	4.33	5.1	4.6	0.019	0.015
2116	55	0.120	4.72	5.0	4.5	0.020	0.015
2116	58	0.130	5.12	5.0	4.5	0.020	0.016
1080	64	0.070	2.76	4.9	4.4	0.021	0.017
1080	66	0.075	2.95	4.9	4.4	0.021	0.017
1080	68	0.080	3.15	4.9	4.4	0.022	0.018
106	73	0.050	1.97	4.8	4.3	0.023	0.019

## 3. REMARK

- 1) Test by IPC TM-650 2.5.5.9 parallel plate method.
- 2) The data above show actual values and are not guaranteed, for your reference only.
- 3) Prepreg types such as 106,1080,2116 RC<52%,7628RC<46% may not satisfy CTI>600V.
- 4) Last update: April, 2025