

Based Material Line Up

S1000H/S1000HB

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	2.00	1x106	72	4.11	4.03	4.00	4.00	0.020	0.020	0.020	0.021
0.063	2.52	1x1065	67	4.23	4.15	4.13	4.13	0.019	0.019	0.019	0.020
0.076	3.04	1x1080	66	4.26	4.18	4.16	4.15	0.019	0.019	0.019	0.020
0.090	3.60	1X2313	53	4.57	4.50	4.49	4.48	0.016	0.017	0.017	0.018
0.100	4.00	1x2313	56	4.50	4.43	4.41	4.41	0.017	0.017	0.018	0.018
0.110	4.40	1x2116	51	4.62	4.55	4.54	4.53	0.016	0.016	0.017	0.017
0.125	5.00	1x2116	56	4.50	4.43	4.41	4.41	0.017	0.017	0.018	0.018
0.150	6.00	1x1506	45	4.77	4.70	4.69	4.69	0.015	0.015	0.016	0.016
0.156	6.24	2x1080	65	4.28	4.20	4.18	4.18	0.019	0.019	0.019	0.020
0.200	8.00	1x7628	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016
0.240	9.60	2x2116	54	4.55	4.48	4.46	4.46	0.017	0.017	0.017	0.018
0.300	12.00	2x1506	45	4.77	4.70	4.69	4.69	0.015	0.015	0.016	0.016
0.350	14.00	2x7628	42	4.84	4.77	4.77	4.76	0.014	0.015	0.015	0.016
0.400	16.00	2x7628	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016
0.450	18.00	2X7628+1080	47	4.72	4.65	4.64	4.63	0.015	0.016	0.016	0.016
0.500	20.00	2X7628+2116	47	4.72	4.65	4.64	4.63	0.015	0.016	0.016	0.016
0.600	24.00	3X7628	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016
0.800	32.00	4X7628	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016
1.000	40.00	5X7628	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016

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1.090	43.00	6X7628	43	4.81	4.74	4.74	4.73	0.014	0.015	0.015	0.016
1.200	47.00	6X7628	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016

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
7628	43*	0.185	7.28	4.81	4.74	4.74	4.73	0.014	0.015	0.015	0.016
7628	46	0.195	7.68	4.74	4.68	4.66	4.66	0.015	0.016	0.016	0.016
7628	48	0.205	8.07	4.70	4.63	4.61	4.61	0.015	0.016	0.016	0.017
7628	50	0.215	8.46	4.65	4.58	4.57	4.57	0.016	0.016	0.017	0.017
1506	48	0.163	6.42	4.70	4.63	4.61	4.61	0.015	0.016	0.016	0.017
1506	50	0.170	6.69	4.65	4.58	4.57	4.57	0.016	0.016	0.017	0.017
1506	52	0.180	7.09	4.59	4.52	4.51	4.50	0.016	0.016	0.017	0.017
2116	52*	0.113	4.45	4.59	4.52	4.51	4.50	0.016	0.016	0.017	0.017
2116	53	0.116	4.57	4.57	4.50	4.49	4.48	0.016	0.017	0.017	0.018
2116	55	0.123	4.84	4.53	4.45	4.43	4.43	0.017	0.017	0.018	0.018
2116	58	0.133	5.24	4.45	4.38	4.36	4.36	0.017	0.018	0.018	0.018
2313	57	0.100	3.94	4.48	4.41	4.39	4.39	0.017	0.018	0.018	0.018
1080	65	0.072	2.83	4.29	4.21	4.19	4.18	0.019	0.019	0.019	0.020
1080	68	0.078	3.07	4.21	4.13	4.11	4.11	0.020	0.019	0.020	0.020
106	73	0.050	1.97	4.09	4.01	3.97	3.97	0.020	0.020	0.020	0.021

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3. REMARK

- 1) Test by SPDR method
- 2) The data above show actual values and are not guaranteed.
- 3) RC* is not common type for reference.
- 4) Last update: July, 2018