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	1x1067	66	4.26	4.18	4.16	4.15	0.019	0.019	0.019	0.020
0.063	2.52	1x1067	73	4.09	4.01	3.97	3.97	0.020	0.020	0.020	0.021
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	1X3313	53	4.57	4.50	4.49	4.48	0.016	0.017	0.017	0.018
0.100	4.00	1x2116	49	4.68	4.61	4.59	4.59	0.016	0.016	0.017	0.017
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	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016
0.156	6.24	1x1506	47	4.72	4.65	4.64	4.64	0.015	0.016	0.016	0.017
0.200	8.00	1x7628	47	4.72	4.65	4.64	4.64	0.015	0.016	0.016	0.017
0.240	9.60	2x2116	56	4.51	4.43	4.41	4.41	0.017	0.018	0.018	0.018
0.300	12.00	2x1506	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016
0.350	14.00	2x7628	43	4.81	4.74	4.74	4.73	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	48	4.70	4.63	4.61	4.61	0.015	0.016	0.016	0.017
0.500	20.00	2X7628+2116	48	4.70	4.63	4.61	4.61	0.015	0.016	0.016	0.017
0.600	24.00	3X7628	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016
0.700	27.60	2X7628+2X1506	46	4.74	4.67	4.67	4.66	0.015	0.016	0.016	0.016
0.760	30.00	4X7628	45	4.77	4.70	4.70	4.69	0.014	0.015	0.015	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
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
1.5 H/H	59.00	8X7628	44	4.79	4.72	4.72	4.71	0.014	0.015	0.015	0.016

2. PREPREG (B-STAGE)

Glass style	RC (%)	Thickness		Dk				Df			
	Nominal	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
7628	52	0.225	8.86	4.59	4.52	4.51	4.50	0.016	0.016	0.017	0.017
1506	48	0.160	6.30	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	0.120	4.72	4.53	4.45	4.43	4.43	0.017	0.017	0.018	0.018
2116	58	0.130	5.12	4.45	4.38	4.36	4.36	0.017	0.018	0.018	0.018
3313	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	0.081	3.19	4.21	4.13	4.11	4.11	0.019	0.020	0.020	0.020
1080	70	0.087	3.43	4.16	4.08	4.05	4.05	0.019	0.020	0.020	0.020
1067	73	0.065	2.56	4.09	4.01	3.97	3.97	0.020	0.020	0.020	0.021
1067	76	0.070	2.76	4.02	3.94	3.90	3.90	0.020	0.020	0.021	0.021
106	73	0.050	1.97	4.09	4.01	3.97	3.97	0.020	0.020	0.020	0.021
106	78	0.063	2.48	3.97	3.89	3.83	3.83	0.020	0.021	0.021	0.022

3. REMARK

1) Test by SPDR method.
2) The data above show actual values and are not guaranteed, for your reference only.
3) RC* is not common type for reference.
4) Last update: June, 2022