

Based Material Line Up



S1141/S0401

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	2.0	1x106	71	3.66	3.64	3.51	3.49	0.019	0.019	0.020	0.020
0.065	2.6	1x1078	59	3.98	3.96	3.88	3.86	0.017	0.017	0.018	0.018
0.076	3.0	1x1080	63	3.87	3.86	3.76	3.74	0.018	0.018	0.019	0.019
0.090	3.5	1X3313	51	4.20	4.18	4.13	4.11	0.015	0.015	0.016	0.016
0.100	4.0	1x2116	46	4.31	4.30	4.27	4.25	0.014	0.015	0.016	0.016
0.110	4.3	1x2116	49	4.25	4.23	4.19	4.17	0.015	0.015	0.016	0.016
0.125	5.0	1x2116	54	4.11	4.10	4.03	4.02	0.015	0.016	0.017	0.017
0.150	6.0	1x1506	43	4.40	4.39	4.37	4.36	0.013	0.014	0.015	0.015
0.156	6.2	1x1506	44	4.38	4.36	4.34	4.33	0.013	0.014	0.015	0.015
0.200	8.0	1x7628	44	4.38	4.36	4.34	4.33	0.013	0.014	0.015	0.015
0.240	9.6	2x2116	53	4.14	4.12	4.07	4.05	0.015	0.016	0.017	0.017
0.300	12.0	2x1506	43	4.40	4.39	4.37	4.36	0.013	0.014	0.015	0.015
0.350	14.0	2x7628	40	4.48	4.47	4.47	4.45	0.012	0.013	0.014	0.014
0.400	16.0	2x7628	44	4.38	4.36	4.34	4.33	0.013	0.014	0.015	0.015
0.450	18.0	7628+1080+7628	45	4.35	4.34	4.31	4.30	0.013	0.014	0.015	0.015
0.500	20.0	7628+2116+7628	45	4.35	4.34	4.31	4.30	0.013	0.014	0.015	0.015
0.600	24.0	3X7628	42	4.43	4.42	4.40	4.39	0.013	0.013	0.014	0.014
0.800	32.0	4X7628	43	4.40	4.39	4.37	4.36	0.013	0.014	0.015	0.015
1.000	40.0	5X7628	43	4.40	4.39	4.37	4.36	0.013	0.014	0.015	0.015

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1.090	43.0	6X7628	40	4.48	4.47	4.47	4.45	0.012	0.013	0.014	0.014
1.200	47.0	6X7628	41	4.46	4.45	4.44	4.42	0.0125	0.013	0.014	0.014

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	0.199	7.8	4.40	4.39	4.37	4.36	0.013	0.014	0.015	0.015
7628	45	0.208	8.2	4.35	4.34	4.31	4.30	0.013	0.014	0.015	0.015
7628	48	0.225	8.9	4.27	4.26	4.22	4.20	0.014	0.015	0.016	0.016
7628	50	0.236	9.3	4.22	4.20	4.16	4.14	0.015	0.015	0.016	0.016
1506	42	0.152	6.0	4.43	4.42	4.40	4.39	0.013	0.013	0.014	0.014
1506	45	0.164	6.5	4.35	4.34	4.31	4.30	0.013	0.014	0.015	0.015
1506	48	0.176	6.9	4.27	4.26	4.22	4.20	0.014	0.015	0.016	0.016
2116	50	0.117	4.6	4.22	4.20	4.16	4.14	0.015	0.015	0.016	0.016
2116	52	0.123	4.8	4.17	4.15	4.10	4.08	0.015	0.015	0.016	0.016
2116	55	0.134	5.3	4.09	4.07	4.00	3.99	0.016	0.016	0.017	0.017
2116	58	0.146	5.7	4.01	3.99	3.91	3.89	0.016	0.017	0.018	0.018
2313/3313	55	0.105	4.1	4.09	4.07	4.00	3.99	0.016	0.016	0.017	0.017
1080/1078	64	0.081	3.2	3.85	3.83	3.73	3.71	0.018	0.018	0.019	0.019
1080/1078	68	0.094	3.7	3.74	3.72	3.60	3.58	0.019	0.019	0.020	0.020
106/1037	71	0.053	2.1	3.66	3.64	3.51	3.49	0.019	0.019	0.020	0.020
106/1037	74	0.061	2.4	3.58	3.56	3.42	3.40	0.020	0.020	0.021	0.021

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106/1037	76	0.066	2.6	3.53	3.51	3.36	3.34	0.020	0.020	0.021	0.021
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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, 2021