

Based Material Line Up



S7045GH/S7045GHB

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
0.051	2.0	1x106	72	3.59	3.58	3.57	3.57	0.0087	0.0092	0.0097	0.0102
0.051	2.0	1x1067	65	3.75	3.74	3.73	3.73	0.0084	0.0089	0.0094	0.0099
0.064	2.5	1x106	77	3.48	3.47	3.46	3.46	0.0090	0.0095	0.0100	0.0105
0.064	2.5	1x1067	71	3.61	3.60	3.59	3.59	0.0087	0.0092	0.0097	0.0102
0.076	3.0	1x1078	64	3.77	3.76	3.75	3.75	0.0084	0.0089	0.0094	0.0099
0.076	3.0	1x1080	64	3.77	3.76	3.75	3.75	0.0084	0.0089	0.0094	0.0099
0.076	3.0	1x1086	62	3.82	3.81	3.80	3.80	0.0083	0.0088	0.0093	0.0098
0.089	3.5	2x1067	61	3.84	3.83	3.82	3.82	0.0082	0.0087	0.0092	0.0097
0.089	3.5	1x3313	51	4.06	4.05	4.04	4.04	0.0078	0.0083	0.0088	0.0093
0.102	4.0	2x106	72	3.59	3.58	3.57	3.57	0.0087	0.0092	0.0097	0.0102
0.102	4.0	2x1067	65	3.75	3.74	3.73	3.73	0.0084	0.0089	0.0094	0.0099
0.102	4.0	1x3313	56	3.95	3.94	3.93	3.93	0.0080	0.0085	0.0090	0.0095
0.102	4.0	1x2116	47	4.15	4.14	4.13	4.13	0.0076	0.0081	0.0086	0.0091
0.114	4.5	1x2116	51	4.06	4.05	4.04	4.04	0.0078	0.0083	0.0088	0.0093
0.127	5.0	2x106	77	3.48	3.47	3.46	3.46	0.0090	0.0095	0.0100	0.0105
0.127	5.0	2x1067	71	3.61	3.60	3.59	3.59	0.0087	0.0092	0.0097	0.0102
0.127	5.0	1x2116	55	3.97	3.96	3.95	3.95	0.0080	0.0085	0.0090	0.0095
0.152	6.0	2x1078	64	3.77	3.76	3.75	3.75	0.0084	0.0089	0.0094	0.0099
0.152	6.0	2x1080	64	3.77	3.76	3.75	3.75	0.0084	0.0089	0.0094	0.0099

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0.152	6.0	1X1506	44	4.22	4.21	4.20	4.20	0.0075	0.0080	0.0085	0.0090
0.178	7.0	2x3313	51	4.06	4.05	4.04	4.04	0.0078	0.0083	0.0088	0.0093
0.203	8.0	2x3313	56	3.95	3.94	3.93	3.93	0.0080	0.0085	0.0090	0.0095
0.203	8.0	2x2116	47	4.15	4.14	4.13	4.13	0.0076	0.0081	0.0086	0.0091
0.229	9.0	3x1080	64	3.77	3.76	3.75	3.75	0.0084	0.0089	0.0094	0.0099
0.229	9.0	2x2116	51	4.06	4.05	4.04	4.04	0.0078	0.0083	0.0088	0.0093
0.254	10.0	2x2116	55	3.97	3.96	3.95	3.95	0.0080	0.0085	0.0090	0.0095
0.305	12.0	3x3313	56	3.95	3.94	3.93	3.93	0.0080	0.0085	0.0090	0.0095
0.305	12.0	3x2116	47	4.15	4.14	4.13	4.13	0.0076	0.0081	0.0086	0.0091
0.305	12.0	2X1506	44	4.22	4.21	4.20	4.20	0.0075	0.0080	0.0085	0.0090
0.356	14.0	2X1506	50	4.09	4.08	4.07	4.07	0.0078	0.0083	0.0088	0.0093
0.381	15.0	3x2116	55	3.97	3.96	3.95	3.95	0.0080	0.0085	0.0090	0.0095
0.508	20.0	4x2116	55	3.97	3.96	3.95	3.95	0.0080	0.0085	0.0090	0.0095
0.635	25.0	5x2116	55	3.97	3.96	3.95	3.95	0.0080	0.0085	0.0090	0.0095
0.762	30.0	6x2116	55	3.97	3.96	3.95	3.95	0.0080	0.0085	0.0090	0.0095
0.889	35.0	7x2116	55	3.97	3.96	3.95	3.95	0.0080	0.0085	0.0090	0.0095
1.016	40.0	8x2116	55	3.97	3.96	3.95	3.95	0.0080	0.0085	0.0090	0.0095
1.219	48.0	12x2116	47	4.15	4.14	4.13	4.13	0.0076	0.0081	0.0086	0.0091
1.321	52.0	13x2116	47	4.15	4.14	4.13	4.13	0.0076	0.0081	0.0086	0.0091
1.727	68.0	17x2116	47	4.15	4.14	4.13	4.13	0.0076	0.0081	0.0086	0.0091

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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
106	72	0.051	2.0	3.59	3.58	3.57	3.57	0.0087	0.0092	0.0097	0.0102
106	77	0.064	2.5	3.48	3.47	3.46	3.46	0.0090	0.0095	0.0100	0.0105
1067	65	0.051	2.0	3.75	3.74	3.73	3.73	0.0084	0.0089	0.0094	0.0099
1067	71	0.064	2.5	3.61	3.60	3.59	3.59	0.0087	0.0092	0.0097	0.0102
1078	62	0.071	2.8	3.82	3.81	3.80	3.80	0.0083	0.0088	0.0093	0.0098
1078	64	0.076	3.0	3.77	3.76	3.75	3.75	0.0084	0.0089	0.0094	0.0099
1078	68	0.086	3.4	3.68	3.67	3.66	3.66	0.0086	0.0091	0.0096	0.0101
1080	62	0.071	2.8	3.82	3.81	3.80	3.80	0.0083	0.0088	0.0093	0.0098
1080	64	0.076	3.0	3.77	3.76	3.75	3.75	0.0084	0.0089	0.0094	0.0099
1080	68	0.086	3.4	3.68	3.67	3.66	3.66	0.0086	0.0091	0.0096	0.0101
3313	56	0.102	4.0	3.95	3.94	3.93	3.93	0.0080	0.0085	0.0090	0.0095
3313	58	0.109	4.3	3.91	3.90	3.89	3.89	0.0081	0.0086	0.0091	0.0096
3313	60	0.117	4.6	3.86	3.85	3.84	3.84	0.0082	0.0087	0.0092	0.0097
2116	53	0.122	4.8	4.02	4.01	4.00	4.00	0.0079	0.0084	0.0089	0.0094
2116	55	0.127	5.0	3.97	3.96	3.95	3.95	0.0080	0.0085	0.0090	0.0095
2116	57	0.135	5.3	3.93	3.92	3.91	3.91	0.0081	0.0086	0.0091	0.0096
2116	59	0.145	5.7	3.88	3.87	3.86	3.86	0.0082	0.0087	0.0092	0.0097
1506	48	0.165	6.5	4.13	4.12	4.11	4.11	0.0077	0.0082	0.0087	0.0092
1506	50	0.175	6.9	4.09	4.08	4.07	4.07	0.0078	0.0083	0.0088	0.0093

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3. REMARK

- 1) Dk/Df measuring method: IPC TM-650 2.5.5.5;
- 2) The above data is for reference only, but not guarantee value. SYTECH reserves the right for any update.